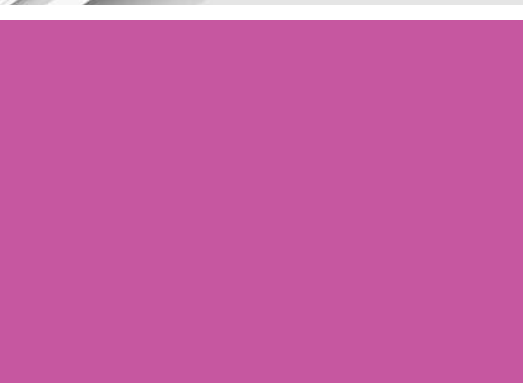


CORE PROGRAM CONNECTORS





Product Overview

Subminiature Connectors

	Series	Page
Snap-in IP40	719 · 709	6
Snap-in IP67	620	8
Bayonet	710	12
Micro Push-Pull	420	14
Push-Pull	430	16
M9 IP40	711	18
M9 IP67	712 · 702	20



Miniature Connectors

	Series	Page
Snap-in	720	28
Bayonet	678	34
Bayonet NCC	770	38
Push-Pull	440	40
M16 IP40	581 · 680 · 682	44
M16 IP67	423 · 723 · 425	54



Power Connectors

	Series	Page
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RD24	692 · 693	72
Bayonet HEC	696	80
RD30	694	84



Connectors for medical applications

	Series	Page
Snap-in ELC	570	86
Snap-in IP67	620	88
Snap-in	720	90
Bayonet NCC	770	92



Automation Technology – Sensors & Actuators

	Series	Page
M5	707	94
M8	768 - 718	98
M12-A	713 - 763	110
Accessories for M12	M12	141
Connecting Cables	765	146



Automation Technology – Data Transmission & Power Supply

	Series	Page
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M12-D · M12-X	825 - 876	168
M12-S · M12-K	814	180
M12-T · M12-L	813	186
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Automation Technology – Solenoid Valve Connectors

	Series	Page
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Contents

Subminiature Connectors

	Range	Series	Page	Degree of protection	Voltage	Current	No. of contacts
Page 6–27	Snap-in IP40	719 · 709	6	IP40	60 V	3 A	3–5
	Snap-in IP67	620	8	IP67	63/125 V	1–3 A	3–8
	Bayonet	710	12	IP40	125 V	1–4 A	2–8
	Micro Push-Pull	420	14	IP67	125 V	1 A	3–5
	Push-Pull	430	16	IP67/IP40	125 V	1–4 A	3–8
	M9 IP40	711	18	IP40	125 V	1–4 A	2–8
	M9 IP67	712 · 702	20	IP67	125 V	1–4 A	2–8

Miniature Connectors

Page 28–65	Snap-in	720	28	IP67	60/250 V	2–7 A	3–12
	Bayonet	678	34	IP40	60/250 V	1–7 A	2–24
	Bayonet NCC	770	38	IP67	175 V	2 A	8
	Push-Pull	440	40	IP67	60/250 V	3–7 A	3–19
	M16 IP40	581 · 680 · 682	44	IP40	60/250 V	1–7 A	2–24
	M16 IP67	423 · 723 · 425	54	IP67	60/250 V	1–7 A	2–24

Power Connectors

Page 66–85	M23	623	66	IP67	150/300 V	8–20 A	6–19
	RD24	692 · 693	72	IP67	250/400 V	10–16 A	3+PE–6+PE
	Bayonet HEC	696	80	IP68/IP69K	60/600 V	3–32 A	5, 8 (4 + 3+PE), 12
	RD30	694	84	IP65	125/400 V	3–20 A	4+PE–24

Connectors for medical applications

Page 86–93	Snap-in ELC	570	86	IP67	150 V	2 A	12
	Snap-in IP67	620	88	IP67	125 V	1–3 A	3–8
	Snap-in	720	90	IP67	60/250 V	2–7 A	3–12
	Bayonet NCC	770	92	IP67	175 V	2 A	8

Automation Technology – Sensors & Actuators

Page 94–153	M5	707	94	IP67	60 V	1 A	3–4
	M8	768 · 718	98	IP65/IP67	30/60 V	1,5–4 A	3–12
	M12-A	713 · 763	110	IP40/IP67/IP68/IP69K	30/250 V	1,5–8 A	3–12
	Accessories for M12	M12	141				
	Connecting Cables	765	146	IP65–IP68	30/250 V	2–4 A	3–5

Automation Technology – Data Transmission & Power Supply

Page 154–199	M12-B	715 · 766	154	IP67/IP68	125/250 V	1/4 A	2–5
	M12-D · M12-X	825 · 876	168	IP67	50 V AC/60 V DC/250 V	4 A	4, 8
	M12-S · M12-K	814	180	IP67/IP68	630 V	12 A	2–4+PE
	M12-T · M12-L	813	186	IP67/IP68	63 V	12 A/16 A	4, 4+FE
	7/8"	820 · 870	194	IP67	300 V	8–12 A	2+PE–4+PE

Automation Technology – Solenoid Valve Connectors

Page 200–213	Size A	210	200	IP65/IP67	60/250 V	2–10 A	2–3+PE
	Size B	220	205	IP65/IP67	60/250 V	4–10 A	2+PE
	Size C	230	210	IP65/IP67	60/250 V	4–6 A	2–3+PE

Index

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	Cross-reference list	226	

Technical Information

Page 228–231	Explanations	228	
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EMC	Ø in mm	Termination								moulded connectors	Locking			
		solder	dip solder	SMT	screw	crimp	Wire clamp	IDT	biatec®		screw	Bayonet	snap-in	Push-Pull
—	8–9	• 719	• 719							• 709			•	
—	11,5	•	•							•			•	
—	12	•										•		
—	9,5	•												•
•/—	14,5	•	•											•
—	11,5	•	•								M9 x 0,5			
•/—	11,5–14	•	•							• 702	M9 x 0,5			

—	16–19	•	•							•			•	
—	20	•										•		
—	16–23	•	•									•		
•/—	20	•												•
•/—	17–19	•	•		•	•					M16 x 0,75			
•/—	18,5–21,5	•	•		•	•				• 425	M16 x 0,75			

•/—	25	•									M23 x 1			
—	29	•			•	•				• 692	RD24			
—	36					•						•		
—	40	•			•						RD30			

—	— (21)	•											•	
—	11,5	•	•										•	
—	16–19	•	•										•	
—	16–19	•	•									•		

•/—	6,5		•							•	M5x0,5			
•/—	10–14	• 768	•		• 768			• 768	• 768	• 718	M8x1		• 718	
•	15–20	• 763	• 763	• 763	• 713	• 713	• 713	• 713		• 763	M12x1			

—	10–15									•	M8/M12			
---	-------	--	--	--	--	--	--	--	--	---	--------	--	--	--

•	15–20	•	• 766	•	• 715	• 715	• 715			• 766	M12x1			
•	15–20	•	•	•	• 825	• 825		• 825		• 876	M12x1			
—	15–25				•					•	M12x1			
—	15–25	•	•		•					•	M12x1			
—	26–28		• 820		• 820					• 870	7/8"			

—	—	•			•	•				•	M3			
—	—	•			•					•	M3			
—	—	•			•					•	M3			

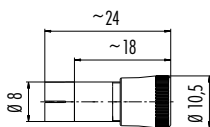


- Snap-in locking system
- 3 – 5 contacts
- Degree of protection IP40
- Solder termination
- Moulded versions
- Easy assembly

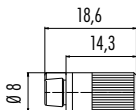
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector without strain relief		3	3,6 mm	09 9747 00 03
		4		09 9767 00 04
		5		09 9789 00 05



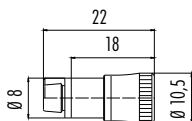
Male cable connector with strain relief		3	2,5–4 mm	09 9747 70 03
			3,5–5 mm	09 9747 71 03
		4	2,5–4 mm	09 9767 70 04
			3,5–5 mm	09 9767 71 04
		5	3,5–5 mm	09 9789 71 05



Female cable connector without strain relief		3	3,6 mm	09 9748 00 03
		4		09 9764 00 04
		5		09 9790 00 05



Female cable connector with strain relief		3	2,5–4 mm	09 9748 70 03
			3,5–5 mm	09 9748 71 03
		4	2,5–4 mm	09 9764 70 04
			3,5–5 mm	09 9764 71 04
		5	3,5–5 mm	09 9790 71 05



Specifications			
Contacts	3	4	5
Wire gauge	max. 0,25 mm ² (max. AWG 24)		
Mechanical operation	> 100 Mating cycles		
Temperature range	– 25 °C /+ 70 °C		
Rated voltage	60 V		
Pollution degree	1		
Rated current (40°C)	3 A		
Contact plating	Au (Gold)		
Material of housing	PA		

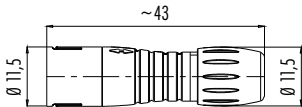
■ Subminiature 719 · 709 series

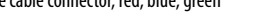
7

- Snap-in locking system
- 3 – 8 contacts
- Degree of protection IP67
- Solder termination
- Diameter 11,5 mm



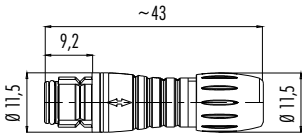
Description	Drawing	Contacts	Cable outlet	Black
Male cable connector		3	3–5 mm	99 9205 00 03
		4		99 9209 00 04
		5		99 9213 00 05
		8		99 9225 00 08



		Red	Blue	Green
 Male cable connector, red, blue, green	3	99 9205 050 03	99 9205 060 03	99 9205 070 03
	4	99 9209 050 04	99 9209 060 04	99 9209 070 04
	5	99 9213 050 05	99 9213 060 05	99 9213 070 05
	8	99 9225 050 08	99 9225 060 08	99 9225 070 08



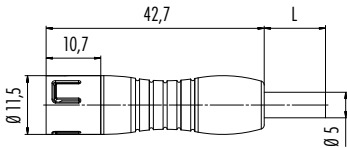
		Black
Female cable connector	3	99 9206 00 03
	4	99 9210 00 04
	5	99 9214 00 05
	8	99 9226 00 08



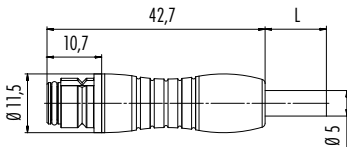
		Red	Blue	Green
 Female cable connector, red, blue, green	3	99 9206 050 03	99 9206 060 03	99 9206 070 03
	4	99 9210 050 04	99 9210 060 04	99 9210 070 04
	5	99 9214 050 05	99 9214 060 05	99 9214 070 05
	8	99 9226 050 08	99 9226 060 08	99 9226 070 08



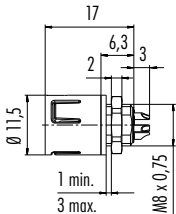
Specifications				
Contacts	3	4	5	8
Wire gauge	max. 0,25 mm ² (max. AWG 24)			
Mechanical operation	> 500 Mating cycles			
Temperature range	– 25 °C /+ 85 °C			
Rated voltage	125 V		63 V	
Pollution degree	2			
Rated current (40°C)	3 A	2,5 A	2 A	1 A
Contact plating	Au (Gold)			
Material of housing	PA			

Description	Drawing	Contacts	Cable length, PUR	Ordering-No.
Male cable connector, moulded		3 x 0,25	2 m	79 9237 020 03
		4 x 0,25		79 9241 020 04
		5 x 0,25		79 9245 020 05
		8 x 0,25		79 9257 020 08



Female cable connector, moulded		3 x 0,25	2 m	79 9238 020 03
		4 x 0,25		79 9242 020 04
		5 x 0,25		79 9246 020 05
		8 x 0,25		79 9258 020 08

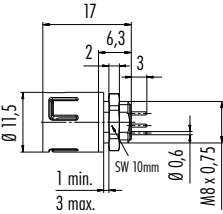


Male panel mount connector, solder termination		Black		
		3	99 9207 00 03	
		4	99 9211 00 04	
		5	99 9215 00 05	
		8	99 9227 00 08	

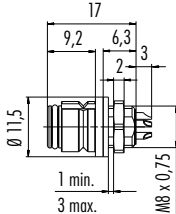


		Red	Blue	Green
 Male panel mount connector, solder termination	3	99 9207 050 03	99 9207 060 03	99 9207 070 03
	4	99 9211 050 04	99 9211 060 04	99 9211 070 04
	5	99 9215 050 05	99 9215 060 05	99 9215 070 05
	8	99 9227 050 08	99 9227 060 08	99 9227 070 08



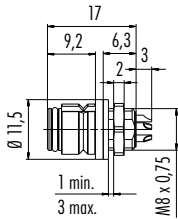
Male panel mount connector, dip-solder termination		Black		
		3	99 9207 090 03	
		4	99 9211 090 04	
		5	99 9215 090 05	
		8	99 9227 090 08	



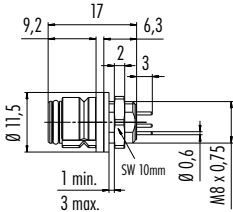
Female panel mount connector, solder termination		3	99 9208 00 03	
		4	99 9212 00 04	
		5	99 9216 00 05	
		8	99 9228 00 08	



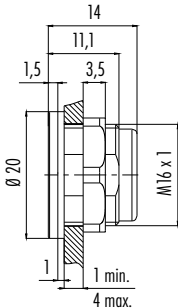
Description	Drawing	Contacts	Red	Blue	Green
Female panel mount connector, solder termination		3	99 9208 050 03	99 9208 060 03	99 9208 070 03
		4	99 9212 050 04	99 9212 060 04	99 9212 070 04
		5	99 9216 050 05	99 9216 060 05	99 9216 070 05
		8	99 9228 050 08	99 9228 060 08	99 9228 070 08



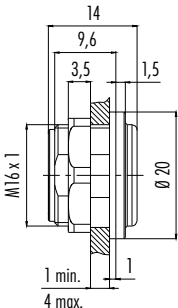
		Black
Female panel mount connector, dip-solder termination		3
		4
		5
		8



	Ordering-No.
Adapter for panel mount connectors	08 2636 000 001

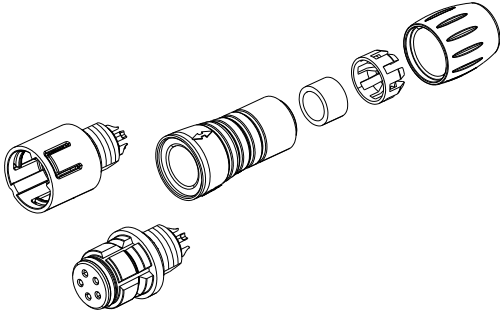


Adapter for panel mount connectors, front fastened	08 2629 000 001
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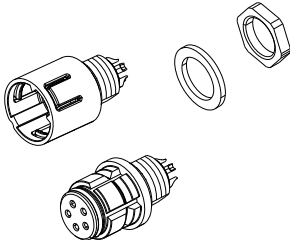
Component part drawing

Cable connectors



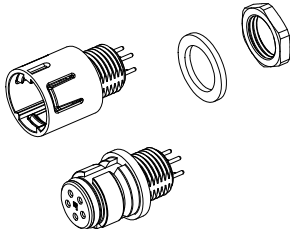
- Male insert
- Female insert
- Sleeve
- Seal
- Pinch ring
- Pressing screw

Panel mount connectors solder



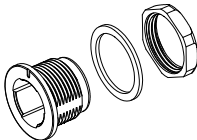
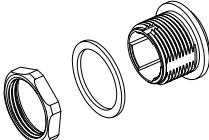
- Male insert
- Female insert
- Flat seal
- Hexagonal nut

Panel mount connectors dip-solder



- Male insert
- Female insert
- Flat seal
- Hexagonal nut

Component part drawing

Adapter 	Adapter Flat seal Hexagonal nut	Adapter, front fastened 	Hexagonal nut Flat seal Adapter
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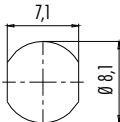
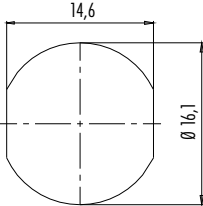
Contact arrangements male insert (mating side)

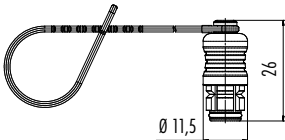
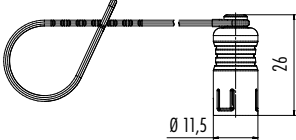
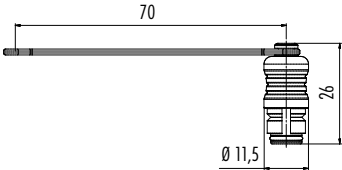
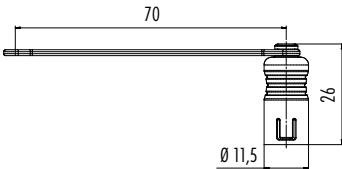
3 contacts 	4 contacts 	5 contacts 	8 contacts 
--	--	--	--

Contact arrangements female insert (mating side)

			
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Panel cut out

Panel mount connectors 	Adapter 	Colour of wire, moulded cable connectors 1 white 2 brown 3 green 4 yellow 5 grey 6 pink 7 blue 8 red
---	--	--

Description	Drawing	Ordering-No.
Protection cap for male cable connector 		08 2813 000 000
Protection cap for female cable connector 		08 2823 000 000
Protection cap for male panel mount connector 		08 2839 000 000
Protection cap for female panel mount connector 		08 2831 000 000

- Bayonet locking system
- 2 – 8 contacts
- Degree of protection IP40
- Solder termination
- Diameter 12 mm



Description

Male cable connector

Drawing



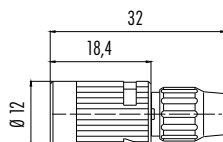
Contacts

Cable outlet 3–4 mm

Cable outlet 4–5 mm

2	99 0971 100 02	99 0971 102 02
3	99 0975 100 03	99 0975 102 03
4	99 0979 100 04	99 0979 102 04
5	99 0995 100 05	99 0995 102 05
7	99 9475 100 07	99 9475 102 07
8	99 9479 100 08	99 9479 102 08

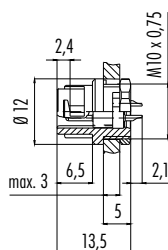
Female cable connector



2	99 0972 100 02	99 0972 102 02
3	99 0976 100 03	99 0976 102 03
4	99 0980 100 04	99 0980 102 04
5	99 0996 100 05	99 0996 102 05
7	99 9476 100 07	99 9476 102 07
8	99 9480 100 08	99 9480 102 08

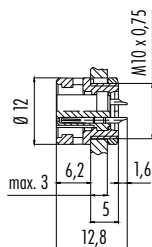
Ordering-No.

Male panel mount connector



2	09 0973 00 02
3	09 0977 00 03
4	09 0981 00 04
5	09 0997 00 05
7	09 9477 00 07
8	09 9481 00 08

Female panel mount connector



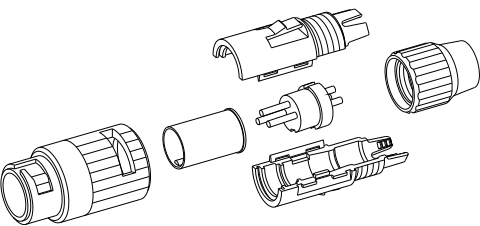
2	09 0974 00 02
3	09 0978 00 03
4	09 0982 00 04
5	09 0998 00 05
7	09 9478 00 07
8	09 9482 00 08

Specifications

Contacts	2	3	4	5	7	8
Wire gauge	max. 0,25 mm² (max. AWG 24)				max. 0,14 mm² (max. AWG 26)	
Mechanical operation	> 500 Mating cycles					
Temperature range	– 40 °C /+ 85 °C					
Rated voltage	125 V					
Pollution degree	1					
Rated current (40°C)	4 A		3 A		1 A	
Contact plating	Au (Gold)					
Material of housing	PA					

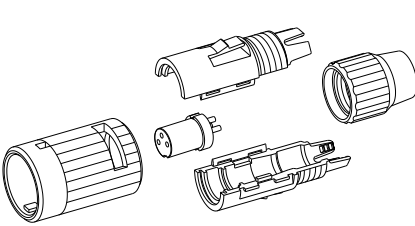
Component part drawing

Male cable connector



Connection ring male connector
Sleeve
Carrier sleeve part 1 and part 2
Male insert
Pressing screw

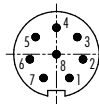
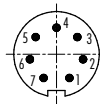
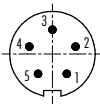
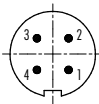
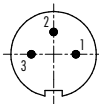
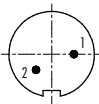
Female cable connector



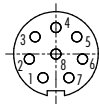
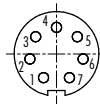
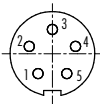
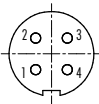
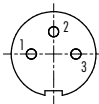
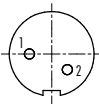
Connection ring female connector
Carrier sleeve part 1 and part 2
Female insert
Pressing screw

Contact arrangements male insert (mating side)

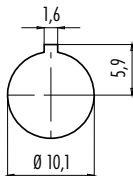
2 contacts 3 contacts 4 contacts 5 contacts 7 contacts 8 contacts



Contact arrangements female insert (mating side)



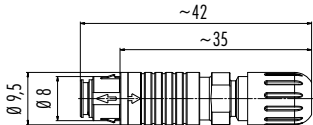
Panel cut out



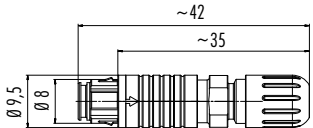
- Push-Pull locking system
- 3 – 5 contacts
- Degree of protection IP67
- Solder termination
- Diameter 9,5 mm



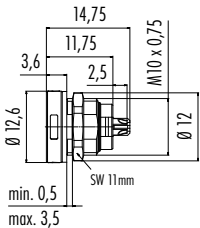
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector		3	3–4 mm	99 4705 00 03
		4		99 4709 00 04
		5		99 4713 00 05



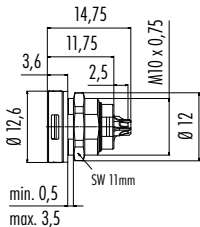
Female cable connector		3	3–4 mm	99 4706 00 03
		4		99 4710 00 04
		5		99 4714 00 05



Male panel mount connector		3	-	09 4707 00 03
		4		09 4711 00 04
		5		09 4715 00 05



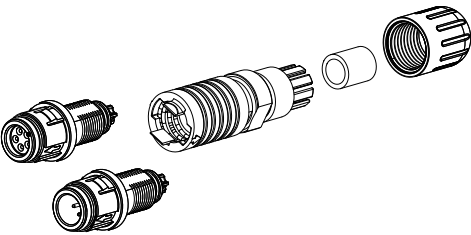
Female panel mount connector		3	-	09 4708 00 03
		4		09 4712 00 04
		5		09 4716 00 05



Specifications			
Contacts	3	4	5
Wire gauge	max. 0,14 mm ² (max. AWG 26)		
Mechanical operation	> 1000 Mating cycles		
Temperature range	– 40 °C /+ 80 °C		
Rated voltage	125 V		
Pollution degree	2		
Rated current (40°C)	1 A		
Contact plating	Au (Gold)		
Material of housing	PA		

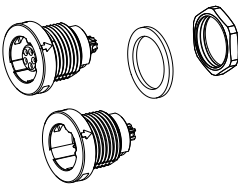
Component part drawing

Cable connectors



Female insert
Male insert
Locking device
Seal
Pressing screw

Panel mount connectors



Female panel mount connector
Male panel mount connector
Flat seal
Hexagonal nut

Contact arrangements male insert (mating side)

3 contacts



4 contacts



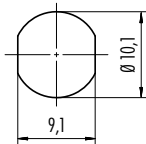
5 contacts



Contact arrangements female insert (mating side)



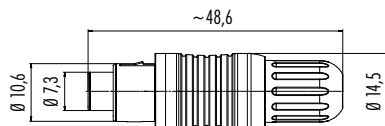
Panel cut out



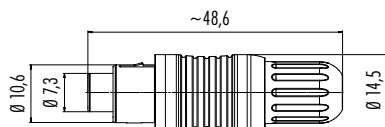


- Push-Pull locking system
- 3 – 8 contacts
- Degree of protection IP40/IP67
- Solder termination
- Diameter 14,5 mm
- Shieldable

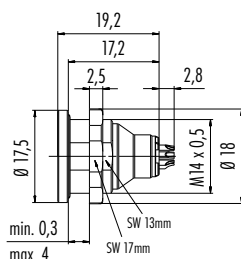
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector, shieldable, IP67		3		99 4905 00 03
		4		99 4909 00 04
		5	3,5–5 mm	99 4913 00 05
		7		99 4925 00 07
		8		99 4929 00 08



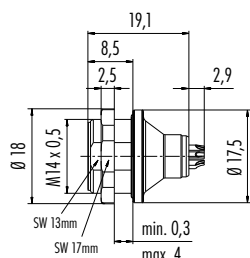
Female cable connector, shieldable, IP67		3		99 4906 00 03
		4		99 4910 00 04
		5	3,5–5 mm	99 4914 00 05
		7		99 4926 00 07
		8		99 4930 00 08



	IP40	IP67	Shielded, IP67
Male panel mount connector, IP40, IP67, shielded, IP67			
	3	09 4907 025 03	09 4907 015 03
	4	09 4911 025 04	09 4911 015 04
	5	–	09 4915 015 05
	7	09 4927 025 07	09 4927 015 07
	8	09 4931 025 08	09 4931 015 08

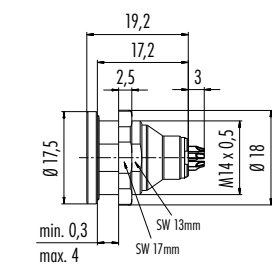


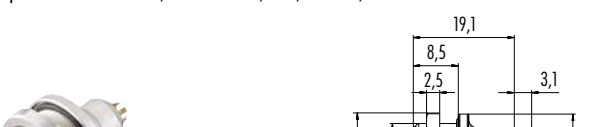
	IP67	Shielded, IP67
Male panel mount connector, front fastened, IP67, shielded, IP67		
	3	–
	4	–
	5	09 4915 080 05
	7	09 4927 080 07
	8	09 4931 080 08



Specifications

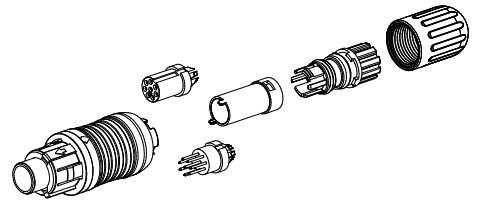
Contacts	3	4	5	7	8
Wire gauge	0,25 mm ² (AWG 24)			0,14 mm ² (AWG 26)	
Mechanical operation	> 500 Mating cycles				
Temperature range	− 40 °C / + 85 °C				
Rated voltage ¹⁾	125 V				
Pollution degree	2				
Rated current (40°C)	4 A	3 A			1 A
Contact plating	Au (Gold)				
Material of housing	PA				

Description	Drawing	Contacts	IP40	IP67	Shielded, IP67
Female panel mount connector, IP40, IP67, shielded, IP67		3	09 4908 025 03	09 4908 015 03	09 4908 00 03
		4	09 4912 025 04	09 4912 015 04	09 4912 00 04
		5	09 4916 025 05	09 4916 015 05	09 4916 00 05
		7	—	09 4928 015 07	09 4928 00 07
		8	09 4932 025 08	09 4932 015 08	09 4932 00 08

			IP67	Shielded, IP67	
	Female panel mount connector, front fastened, IP67, shielded, IP67	3	—	09 4908 080 03	09 4908 081 03
		4	—	09 4912 080 04	09 4912 081 04
		5	—	09 4916 080 05	09 4916 081 05
		7	—	09 4928 080 07	09 4928 081 07
		8	—	09 4932 080 08	09 4932 081 08

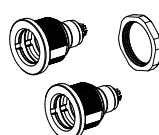
Component part drawing

Cable connectors



Locking device
Female insert
Male insert
Distance sleeve
Clamping device
Seal
Pressing screw

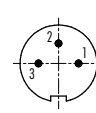
Panel mount connectors



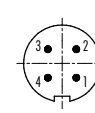
Panel mount connector housing
Female insert
Male insert
Hexagonal nut

Contact arrangements male insert (mating side)

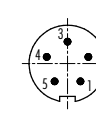
3 contacts



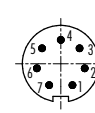
4 contacts



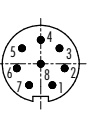
5 contacts



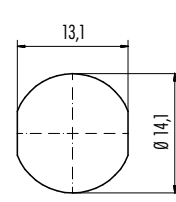
7 contacts



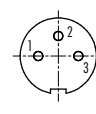
8 contacts

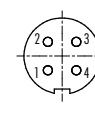


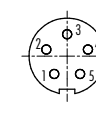
Panel cut out

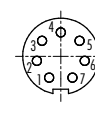


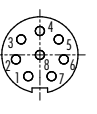
Contact arrangements female insert (mating side)

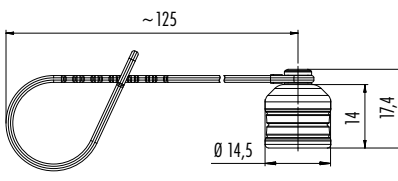


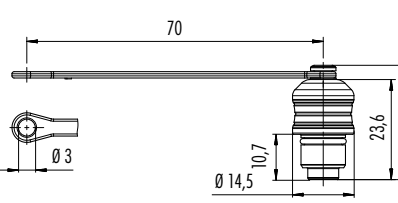








Description	Drawing	Ordering-No.
Protection cap for male cable connector		08 2965 000 000

Protection cap for female cable connector		08 2966 000 000
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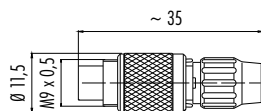


- Screw termination M9
- 2 – 8 contacts
- Degree of protection IP40
- Solder termination
- Diameter 11,5 mm

Description**Drawing****Contacts****Cable outlet 3–4 mm****Cable outlet 4–5 mm**

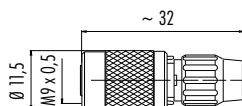
Male cable connector

2	99 0071 100 02	99 0071 102 02
3	99 0075 100 03	99 0075 102 03
4	99 0079 100 04	99 0079 102 04
5	99 0095 100 05	99 0095 102 05
7	99 0475 100 07	99 0475 102 07
8	99 0479 100 08	99 0479 102 08



Female cable connector

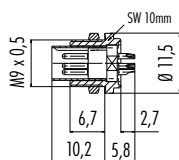
2	99 0072 100 02	99 0072 102 02
3	99 0076 100 03	99 0076 102 03
4	99 0080 100 04	99 0080 102 04
5	99 0096 100 05	99 0096 102 05
7	99 0476 100 07	99 0476 102 07
8	99 0480 100 08	99 0480 102 08



Male panel mount connector, solder termination

Contacts **Ordering-No.**

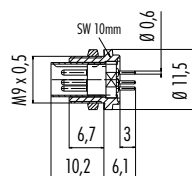
2	09 0073 00 02
3	09 0077 00 03
4	09 0081 00 04
5	09 0097 00 05
7	09 0477 00 07
8	09 0481 00 08



max. wall thickness: 1,5 mm

Male panel mount connector, dip-solder termination

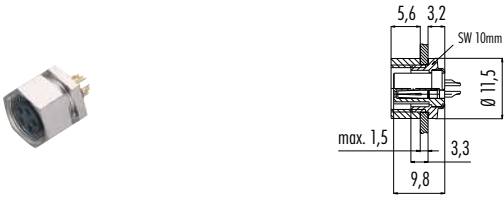
2	09 0073 20 02
3	09 0077 20 03
4	09 0081 20 04
5	09 0097 20 05
7	09 0477 22 07
8	09 0481 22 08



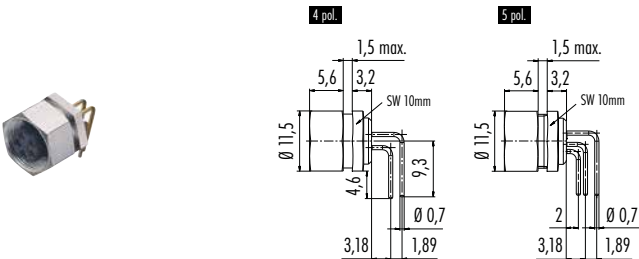
max. wall thickness: 1,5 mm

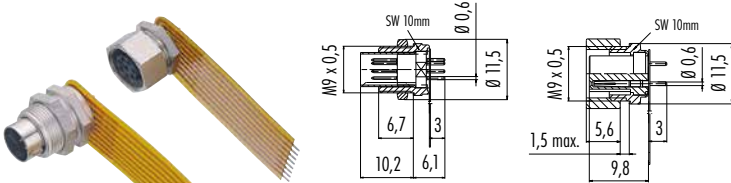
Specifications

Contacts	2	3	4	5	7	8
Wire gauge	max. 0,25 mm² (max. AWG 24)				max. 0,14 mm² (max. AWG 26)	
Mechanical operation	> 500 Mating cycles					
Temperature range	– 40 °C /+ 85 °C					
Rated voltage ¹⁾	125 V					
Pollution degree	1					
Rated current (40°C)	4 A		3 A		1 A	
Contact plating	Au (Gold)					
Material of housing	PA					

Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, solder termination		2	09 0074 00 02
		3	09 0078 00 03
		4	09 0082 00 04
		5	09 0098 00 05
		7	09 0478 00 07
		8	09 0482 00 08

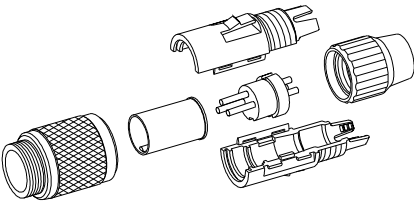
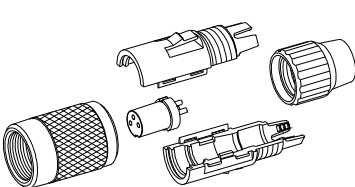
Female panel mount connector, dip-solder termination		2	09 0074 20 02
		3	09 0078 20 03
		4	09 0082 20 04
		5	09 0098 20 05
		7	09 0478 22 07
		8	09 0482 22 08

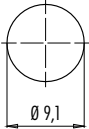
Female angled panel mount connector, dip-solder termination		2	—
		3	—
		4	09 0082 32 04
		5	09 0098 72 05
		7	—
		8	—

		Male panel mount connector	Female panel mount connector
Male panel mount connector/Female panel mount connector with flexible PCB		2	—
		3	—
		4	—
		5	—
		7	09 0477 65 07
		8	09 0481 65 08
			09 0478 65 07
			09 0482 65 08

max. wall thickness: 1,5 mm

Component part drawing

Male cable connector		Connection ring male connector Sleeve Carrier sleeve part 1 and part 2 Male insert Pressing screw Attention: max. torque of ring nut in panel mount connector: 50cNm (manual adjustment)	Female cable connector		Connection ring male connector Sleeve Carrier sleeve part 1 and part 2 Female insert Pressing screw Attention: max. torque of ring nut in panel mount connector: 50cNm (manual adjustment)

Contact arrangements male insert (mating side)							Panel cut out
2 contacts	3 contacts	4 contacts	5 contacts	5 contacts angled version	7 contacts	8 contacts	
							
Contact arrangements female insert (mating side)							
							



- Screw termination M9
- 2 – 8 contacts
- Degree of protection IP67
- Solder termination
- Moulded versions
- Diameter 11,5 – 14 mm

Description

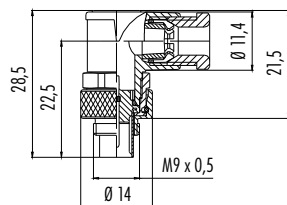
Drawing

Contacts

Cable outlet

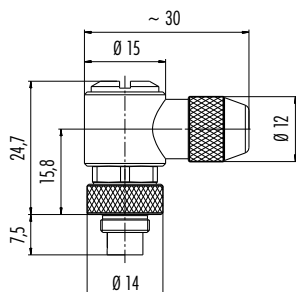
Ordering-No.

Male angled connector



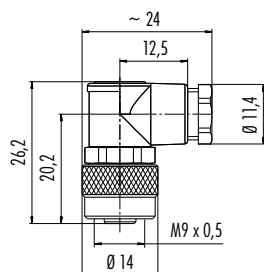
2	3,5–5 mm	99 0401 70 02
3		99 0405 70 03
4		99 0409 70 04
5		99 0413 70 05
7		99 0421 70 07
8		99 0425 70 08

Male angled connector, shieldable



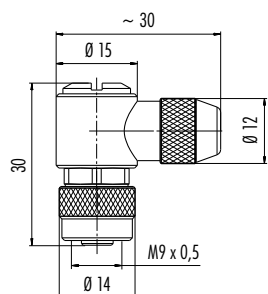
2	3,5–5 mm	99 0401 75 02
3		99 0405 75 03
4		99 0409 75 04
5		99 0413 75 05
7		99 0421 75 07
8		99 0425 75 08

Female angled connector



2	3,5–5 mm	99 0402 70 02
3		99 0406 70 03
4		99 0410 70 04
5		99 0414 70 05
7		99 0422 70 07
8		99 0426 70 08

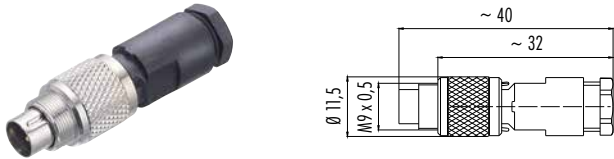
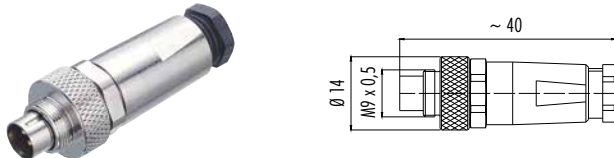
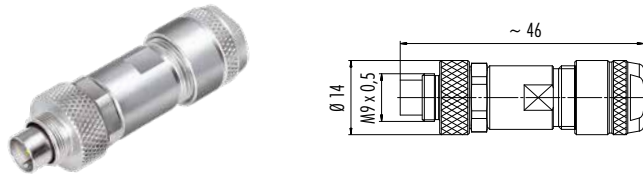
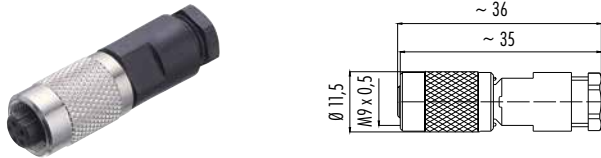
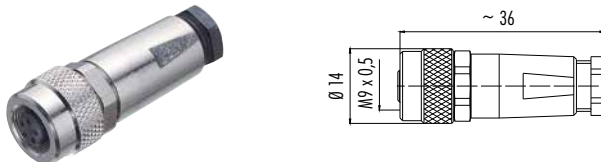
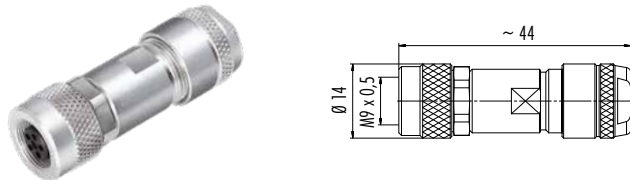
Female angled connector, shieldable

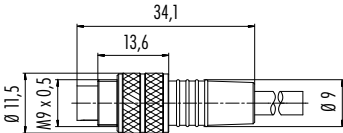


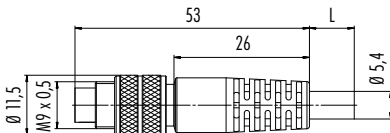
2	3,5–5 mm	99 0402 75 02
3		99 0406 75 03
4		99 0410 75 04
5		99 0414 75 05
7		99 0422 75 07
8		99 0426 75 08

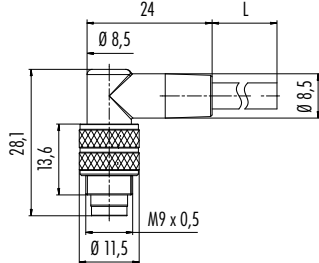
Specifications

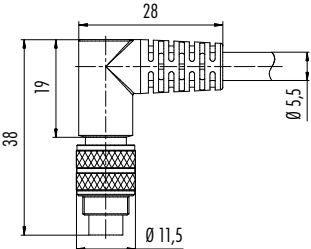
Contacts	2	3	4	5	7	8
Wire gauge	max. 0,25 mm ² (max. AWG 24)				max. 0,14 mm ² (max. AWG 26)	
Mechanical operation	> 500 Mating cycles					
Temperature range	– 40 °C / + 85 °C					
Rated voltage ¹⁾	125 V					
Pollution degree	1					
Rated current (40°C)	4 A		3 A		1 A	
Contact plating	Au (Gold)					
Material of housing	PA, CuZn (brass, nickel plated)					

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector		2 3 4 5 7 8	3,5–5 mm	99 0401 00 02 99 0405 00 03 99 0409 00 04 99 0413 00 05 99 0421 00 07 99 0425 00 08
Male cable connector, shieldable		2 3 4 5 7 8	3,5–5 mm	99 0401 10 02 99 0405 10 03 99 0409 10 04 99 0413 10 05 99 0421 10 07 99 0425 10 08
Male cable connector, shieldable, iris type spring		2 3 4 5 7 8	4–5,5 mm	99 0401 115 02 99 0405 115 03 99 0409 115 04 99 0413 115 05 99 0421 115 07 99 0425 115 08
Female cable connector		2 3 4 5 7 8	3,5–5 mm	99 0402 00 02 99 0406 00 03 99 0410 00 04 99 0414 00 05 99 0422 00 07 99 0426 00 08
Female cable connector, shieldable		2 3 4 5 7 8	3,5–5 mm	99 0402 10 02 99 0406 10 03 99 0410 10 04 99 0414 10 05 99 0422 10 07 99 0426 10 08
Female cable connector, shieldable, iris type spring		2 3 4 5 7 8	4–5,5 mm	99 0402 115 02 99 0406 115 03 99 0410 115 04 99 0414 115 05 99 0422 115 07 99 0426 115 08

Description	Drawing	Contacts	Cable length, PUR	Ordering-No.
Male cable connector, moulded		3 x 0,25	2 m	79 1451 212 03
			5 m	79 1451 215 03
		5 x 0,25	2 m	79 1455 212 05
			5 m	79 1455 215 05
		8 x 0,25	2 m	79 1461 212 08
			5 m	79 1461 215 08

Male cable connector, moulded, shielded		2 x 0,25	2 m	79 1401 12 02
			5 m	79 1401 15 02
		3 x 0,25	2 m	79 1405 12 03
			5 m	79 1405 15 03
		4 x 0,25	2 m	79 1409 12 04
			5 m	79 1409 15 04
		5 x 0,25	2 m	79 1413 12 05
			5 m	79 1413 15 05
		7 x 0,14	2 m	79 1421 12 07
			5 m	79 1421 15 07
		8 x 0,14	2 m	79 1425 12 08
			5 m	79 1425 15 08

Male angled connector, moulded		3 x 0,25	2 m	79 1451 272 03
			5 m	79 1451 275 03
		5 x 0,25	2 m	79 1455 272 05
			5 m	79 1455 275 05
		8 x 0,25	2 m	79 1461 272 08
			5 m	79 1461 275 08

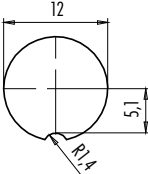
Male angled connector, moulded, shielded		2 x 0,25	2 m	79 1401 72 02
			5 m	79 1401 75 02
		3 x 0,25	2 m	79 1405 72 03
			5 m	79 1405 75 03
		4 x 0,25	2 m	79 1409 72 04
			5 m	79 1409 75 04
		5 x 0,25	2 m	79 1413 72 05
			5 m	79 1413 75 05
		7 x 0,14	2 m	79 1421 72 07
			5 m	79 1421 75 07
		8 x 0,14	2 m	79 1425 72 08
			5 m	79 1425 75 08

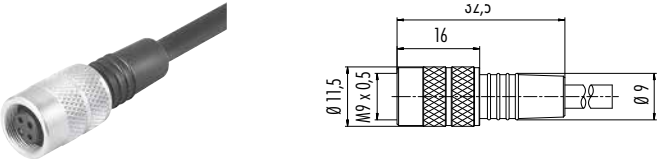
Contact arrangements male insert (mating side)

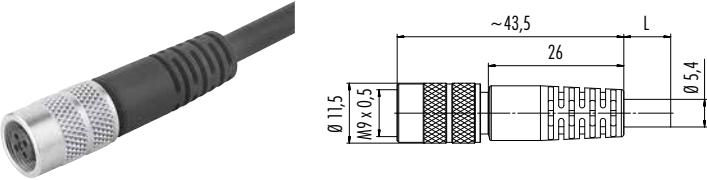
2 contacts	3 contacts	4 contacts	5 contacts	7 contacts	8 contacts
					

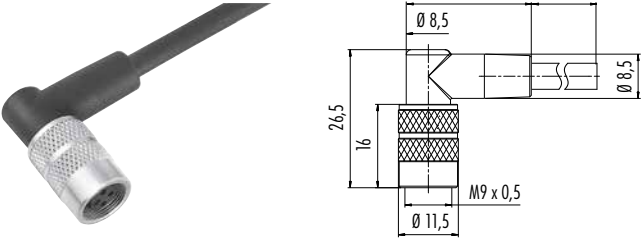
Contact arrangements female insert (mating side)

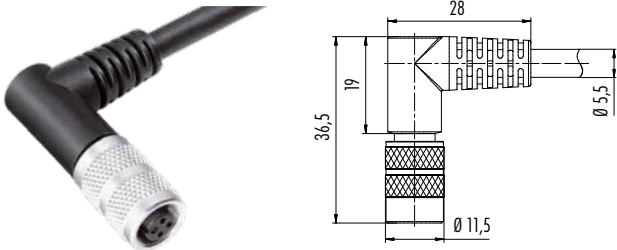
					
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Panel cut out	Colour of wire, moulded cable connectors
	1 white
	2 brown
	3 green
	4 yellow
	5 grey
	6 pink
	7 blue
	8 red

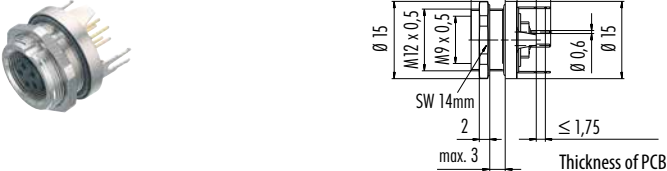
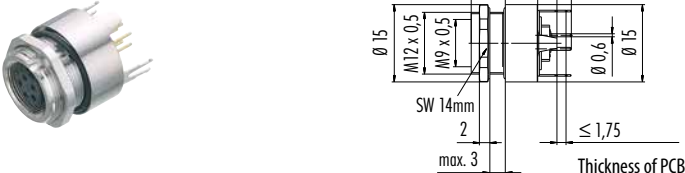
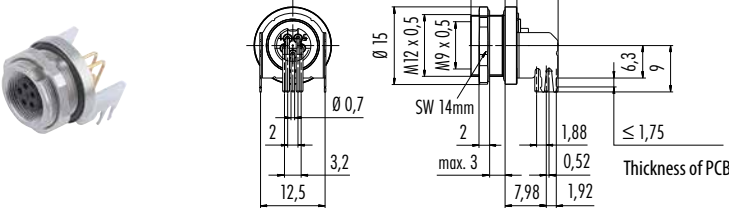
Description	Drawing	Contacts	Cable length, PUR	Ordering-No.
Female cable connector, moulded		3 x 0,25	2 m	79 1452 212 03
			5 m	79 1452 215 03
		5 x 0,25	2 m	79 1456 212 05
			5 m	79 1456 215 05
		8 x 0,25	2 m	79 1462 212 08
			5 m	79 1462 215 08

Female cable connector, moulded, shielded		2 x 0,25	2 m	79 1402 12 02
			5 m	79 1402 15 02
		3 x 0,25	2 m	79 1406 12 03
			5 m	79 1406 15 03
		4 x 0,25	2 m	79 1410 12 04
			5 m	79 1410 15 04
		5 x 0,25	2 m	79 1414 12 05
			5 m	79 1414 15 05
		7 x 0,14	2 m	79 1422 12 07
			5 m	79 1422 15 07
		8 x 0,14	2 m	79 1426 12 08
			5 m	79 1426 15 08

Female angled connector, moulded		3 x 0,25	2 m	79 1452 272 03
			5 m	79 1452 275 03
		5 x 0,25	2 m	79 1456 272 05
			5 m	79 1456 275 05
		8 x 0,25	2 m	79 1462 272 08
			5 m	79 1462 275 08

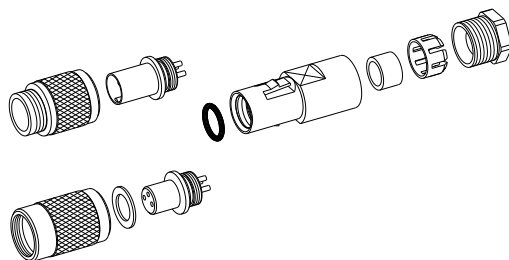
Female angled connector, moulded, shielded		2 x 0,25	2 m	79 1402 72 02
			5 m	79 1402 75 02
		3 x 0,25	2 m	79 1406 72 03
			5 m	79 1406 75 03
		4 x 0,25	2 m	79 1410 72 04
			5 m	79 1410 75 04
		5 x 0,25	2 m	79 1414 72 05
			5 m	79 1414 75 05
		7 x 0,14	2 m	79 1422 72 07
			5 m	79 1422 75 07
		8 x 0,14	2 m	79 1426 72 08
			5 m	79 1426 75 08

Description	Drawing	Contacts	Ordering-No.
Male panel mount connector		2 3 4 5 7 8	09 0403 00 02 09 0407 00 03 09 0411 00 04 09 0415 00 05 09 0423 00 07 09 0427 00 08
Male panel mount connector, front fastened		2 3 4 5 7 8	09 0403 80 02 09 0407 80 03 09 0411 80 04 09 0415 80 05 09 0423 80 07 09 0427 80 08
Male panel mount connector, dip-solder termination, front fastened		2 3 4 5 7 8	09 0403 90 02 09 0407 90 03 09 0411 90 04 09 0415 90 05 09 0423 90 07 09 0427 90 08
Male panel mount connector, dip-solder termination, front fastened, shielding sheet 6 mm		2 3 4 5 7 8	09 0403 30 02 09 0407 30 03 09 0411 30 04 09 0415 30 05 09 0423 30 07 09 0427 30 08
Male panel mount connector, dip-solder termination, front fastened, shielding sheet 10 mm		2 3 4 5 7 8	09 0403 35 02 09 0407 35 03 09 0411 35 04 09 0415 35 05 09 0423 35 07 09 0427 35 08
Male panel mount connector/Female panel mount connector with flexible PCB		2 3 4 5 7 8	— — — — 09 0423 65 07 09 0427 65 08
			09 0424 65 07 09 0428 65 08

Description	Drawing	Contacts	Ordering-No.
Female panel mount connector		2 3 4 5 7 8	09 0404 00 02 09 0408 00 03 09 0412 00 04 09 0416 00 05 09 0424 00 07 09 0428 00 08
Female panel mount connector, front fastened		2 3 4 5 7 8	09 0404 80 02 09 0408 80 03 09 0412 80 04 09 0416 80 05 09 0424 80 07 09 0428 80 08
Female panel mount connector, dip-solder termination, front fastened		2 3 4 5 7 8	09 0404 90 02 09 0408 90 03 09 0412 90 04 09 0416 90 05 09 0424 90 07 09 0428 90 08
Female panel mount connector, dip-solder termination, front fastened, shielding sheet 6 mm		2 3 4 5 7 8	09 0404 30 02 09 0408 30 03 09 0412 30 04 09 0416 30 05 09 0424 30 07 09 0428 30 08
Female panel mount connector, dip-solder termination, front fastened, shielding sheet 10 mm		2 3 4 5 7 8	09 0404 35 02 09 0408 35 03 09 0412 35 04 09 0416 35 05 09 0424 35 07 09 0428 35 08
Female angled panel mount connector, dip-solder termination, front fastened, shielding sheet		2 3 4 5 7 8	09 0404 55 02 - - 09 0416 55 05 - -

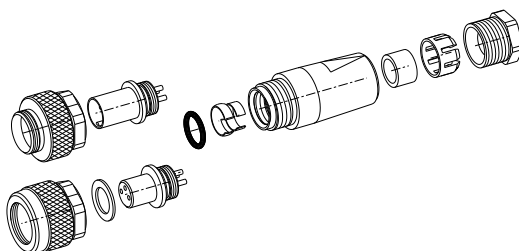
Component part drawing

Cable connectors



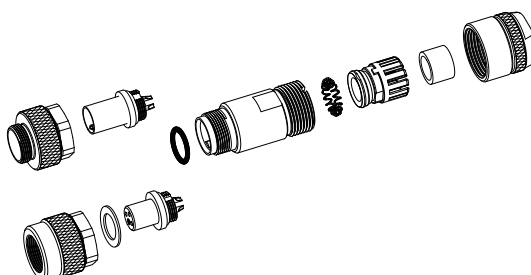
Connection ring male connector
Connection ring female connector
Flat seal
Female insert
Male insert
O-ring 6x1
Snap bushing
Seal
Pinch ring
Pressing screw

Cable connectors, shieldable



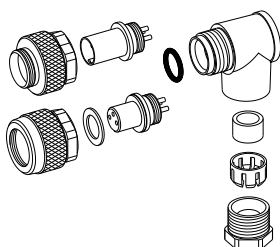
Connection ring male connector
Connection ring female connector
Flat seal
Female insert
Male insert
O-ring 6x1
Snap bushing
Seal
Pinch ring
Pressing screw

Cable connectors, shieldable, with iris type spring



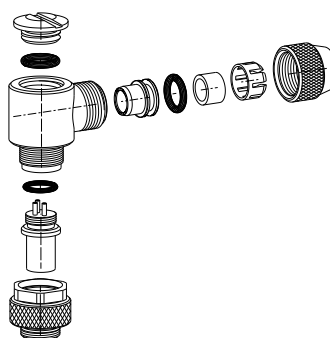
Connection ring male connector
Connection ring female connector
Female insert
Male insert
Sleeve
Iris type spring
Pinch ring
Seal
Pressing screw

Angled connectors

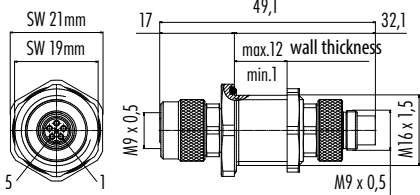
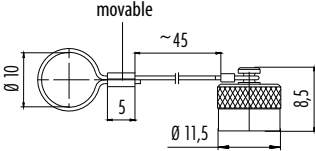
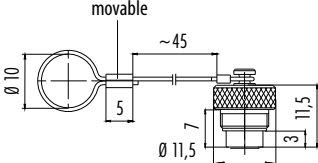
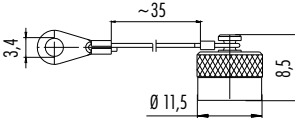
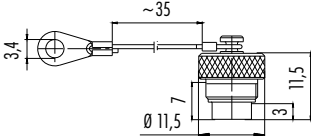
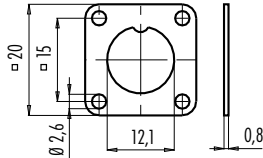
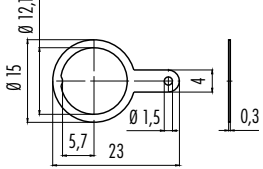
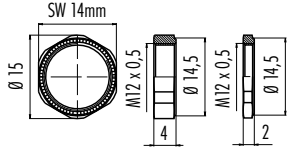
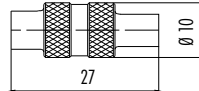


Connection ring male connector
Connection ring female connector
Dichtung
Female insert solder
Male insert solder
O-ring 6x1
Angled housing seal
Pinch ring
Pressing screw
Cable outlet adjustable in 2 positions (0°/180°)

Angled connectors, shielded



Connection ring male connector
Male insert
O-ring 6x1,5
Angled housing
O-ring 6x1,5
Screw plug
Shielding ring
O-ring 6x1,5
Seal
Pinch ring
Pressing screw
Cable outlet adjustable in 2 positions (0°/180°)

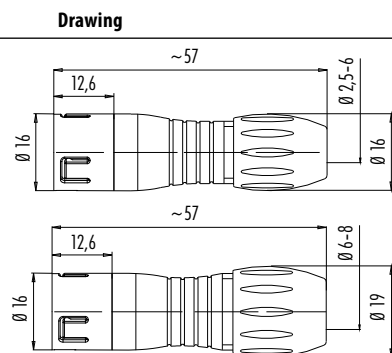
Description	Drawing	Contacts	Ordering-No.
Adapter lead-through for control cabinet		5	09 9618 100 05
Protection cap for male cable connector			08 0349 000 001
Protection cap for female cable connector			08 0350 000 001
Protection cap for male panel mount connector			08 0351 000 001
Protection cap for female panel mount connector			08 0352 000 001
Square flange with seal			08 1124 000 001
Solder eye ring			04 0208 002
Knurled hexagonal nut, 2 mm, 4 mm		01 0013 001 01 5023 001	2 mm thickness 4 mm thickness
Mounting spanner			01 5059 001



- Snap-in locking system
- 3 – 12 contacts
- Degree of protection IP67
- Solder termination
- Moulded versions
- Diameter 16 mm
- Coloured versions

Description

Male cable connector



Contacts	Cable-Ø 2,5–4 mm	Cable-Ø 4–6 mm	Cable-Ø 6–8 mm
3	99 9105 03 03	99 9105 00 03	99 9105 02 03
5	99 9113 03 05	99 9113 00 05	99 9113 02 05
8	99 9125 03 08	99 9125 00 08	99 9125 02 08
12	99 9133 03 12	99 9133 00 12	99 9133 02 12

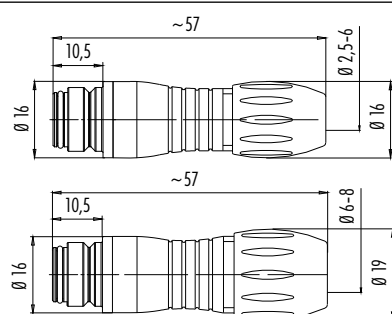
Male cable connector,
red, blue, green



Cable outlet	Red	Blue	Green
3	99 9105 50 03	99 9105 60 03	99 9105 70 03
5	99 9113 50 05	99 9113 60 05	99 9113 70 05
8	99 9125 50 08	99 9125 60 08	99 9125 70 08
12	99 9133 52 12	99 9133 62 12	99 9133 72 12



Female cable connector



Contacts	Cable-Ø 2,5–4 mm	Cable-Ø 4–6 mm	Cable-Ø 6–8 mm
3	99 9106 03 03	99 9106 00 03	99 9106 02 03
5	99 9114 03 05	99 9114 00 05	99 9114 02 05
8	99 9126 03 08	99 9126 00 08	99 9126 02 08
12	99 9134 03 12	99 9134 00 12	99 9134 02 12

Female cable connector,
red, blue, green

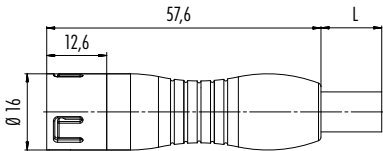


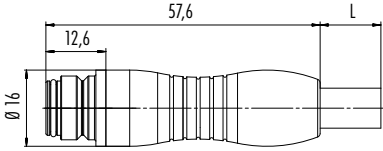
Cable outlet	Red	Blue	Green
3	99 9106 50 03	99 9106 60 03	99 9106 70 03
5	99 9114 50 05	99 9114 60 05	99 9114 70 05
8	99 9126 50 08	99 9126 60 08	99 9126 70 08
12	99 9134 52 12	99 9134 62 12	99 9134 72 12

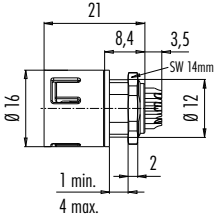


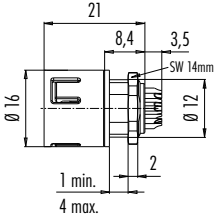
Specifications

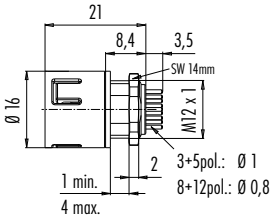
Contacts	3	5	8	12
Wire gauge	max. 0,75 mm ² (max. AWG 20)		max. 0,25 mm ² (max. AWG 24)	
Mechanical operation	> 500 Mating cycles			
Temperature range	– 25 °C / + 85 °C			
Rated voltage	250 V	125 V		60 V
Pollution degree	2			
Rated current (40°C)	7 A	5 A	2 A	
Contact plating	Au (Gold)			
Material of housing	PA			

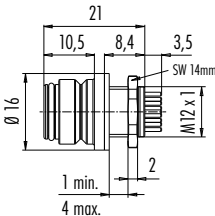
Description	Drawing	Contacts	Cable length, PVC	Ordering-No.
Male cable connector, moulded		3 x 0,75	2 m	79 9149 020 03
		5 x 0,75		79 9157 020 05
		8 x 0,25		79 9169 020 08
		12 x 0,25		79 9177 020 12

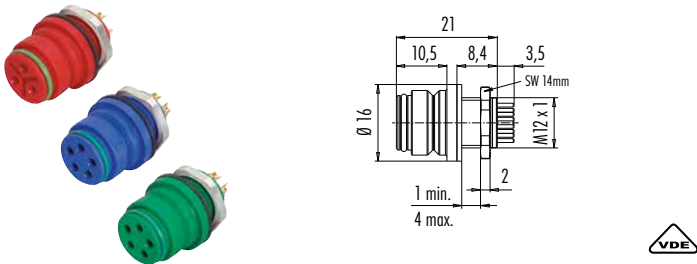
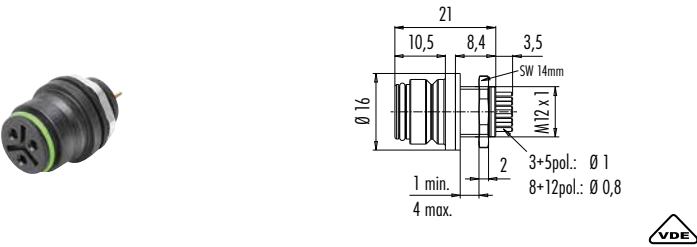
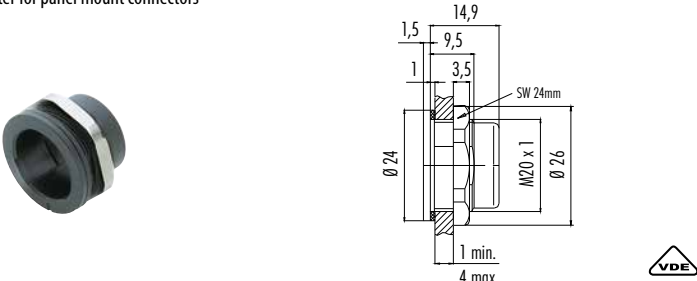
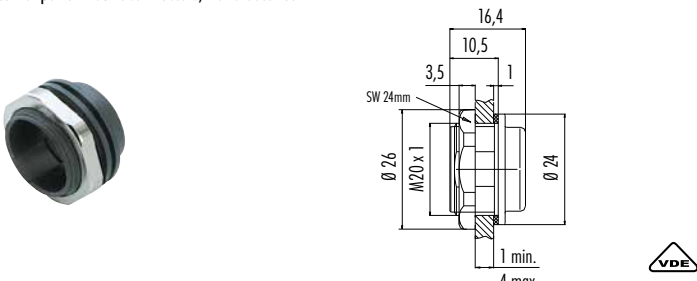
Female cable connector, moulded		3 x 0,75	2 m	79 9150 020 03
		5 x 0,75		79 9158 020 05
		8 x 0,25		79 9170 020 08
		12 x 0,25		79 9178 020 12

Male panel mount connector, solder termination		Black		
		3	99 9107 00 03	
		5	99 9115 00 05	
		8	99 9127 00 08	
		12	99 9135 00 12	

Male panel mount connector, solder termination		Red	Blue	Green
		3	99 9107 50 03	99 9107 70 03
		5	99 9115 50 05	99 9115 70 05
		8	99 9127 50 08	99 9127 70 08
		12	99 9135 50 12	99 9135 70 12

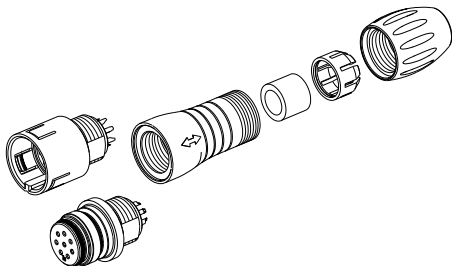
Male panel mount connector, dip-solder termination		Black		
		3	99 9107 090 03	
		5	99 9115 090 05	
		8	99 9127 090 08	
		12	99 9135 090 12	

Female panel mount connector, solder termination		3	99 9108 00 03	
		5	99 9116 00 05	
		8	99 9128 00 08	
		12	99 9136 00 12	

Description	Drawing	Contacts	Red	Blue	Green
Female panel mount connector, solder termination		3	99 9108 50 03	99 9108 60 03	99 9108 70 03
		5	99 9116 50 05	99 9116 60 05	99 9116 70 05
		8	99 9128 50 08	99 9128 60 08	99 9128 70 08
		12	99 9136 50 12	99 9136 60 12	99 9136 70 12
Female panel mount connector, dip-solder termination					
		3	99 9108 090 03		
		5	99 9116 090 05		
		8	99 9128 090 08		
		12	99 9136 090 12		
Adapter for panel mount connectors		Ordering-No.			
		08 2433 000 001			
Adapter for panel mount connectors, front fastened		08 2434 000 001			

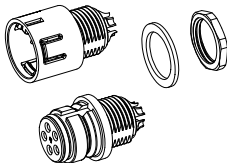
Component part drawing

Cable connectors



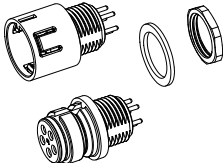
- Male insert
- Female insert
- Sleeve
- Seal
- Pinch ring
- Pressing screw

Panel mount connectors, solder



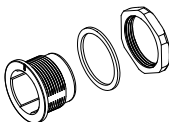
- Male insert
- Female insert
- Flat seal
- Hexagonal nut

Panel mount connectors, dip-solder



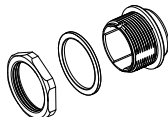
- Male insert
- Female insert
- Flat seal
- Hexagonal nut

Assembly Adapter



- Adapter
- Flat seal
- Hexagonal nut

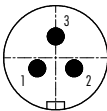
Assembly Adapter, front fastened



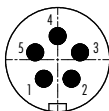
- Hexagonal nut
- Flat seal
- Adapter

Contact arrangements male insert (mating side)

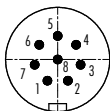
3 contacts



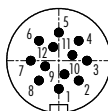
5 contacts



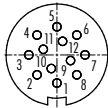
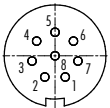
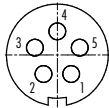
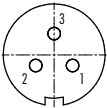
8 contacts



12 contacts

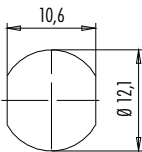


Contact arrangements female insert (mating side)

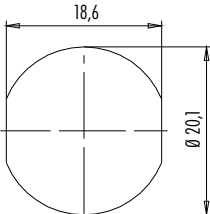


Panel cut out

Panel mount connectors



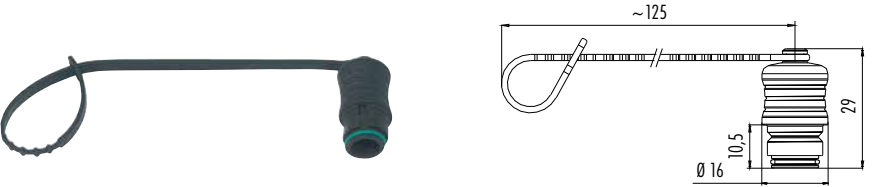
Adapter



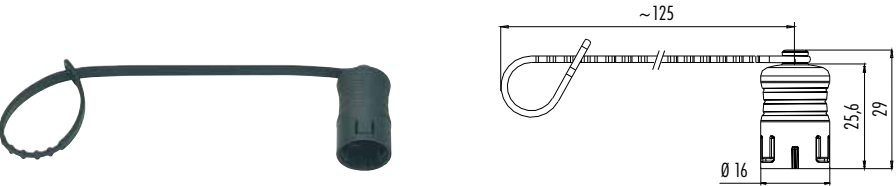
Colour of wire, moulded cable connectors

- | | | | |
|---|--------|----|-----------|
| 1 | white | 7 | blue |
| 2 | brown | 8 | red |
| 3 | green | 9 | black |
| 4 | yellow | 10 | purple |
| 5 | grey | 11 | grey/pink |
| 6 | pink | 12 | red/blue |

Description	Drawing	Ordering-No.
Protection cap for male cable connector		08 2587 000 000



Protection cap for female cable connector		08 2586 000 000
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Protection cap for male panel mount connector	Hole-Ø D	Ordering-No.
	3 mm	08 2559 000 000
	12 mm	08 2680 000 000
	20 mm	08 2674 000 000



Protection cap for female panel mount connector	Hole-Ø D	Ordering-No.
	3 mm	08 2567 000 000
	12 mm	08 2681 000 000
	20 mm	08 2675 000 000







- Bayonet locking system
- 2 – 24 contacts
- Degree of protection IP40
- Solder termination
- Diameter approx. 20 mm
- Touch-proof plastic housing

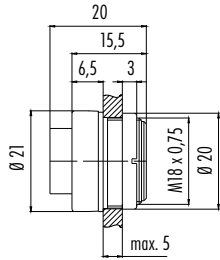
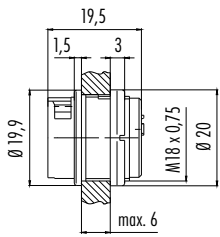
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector		3 DIN	4–6 mm	99 0605 00 03
		4		99 0609 00 04
		5		99 0613 00 05
		6 DIN		99 0617 00 06
		7		99 0621 00 07
		8 DIN		99 0645 00 08
		12		99 0649 00 12

Male angled connector		3 DIN	4–6 mm	99 0605 70 03
		4		99 0609 70 04
		5		99 0613 70 05
		6 DIN		99 0617 70 06
		7		99 0621 70 07
		8 DIN		99 0645 70 08
		12		99 0649 70 12

Female cable connector		3 DIN	4–6 mm	99 0606 00 03
		4		99 0610 00 04
		5		99 0614 00 05
		6 DIN		99 0618 00 06
		7		99 0622 00 07
		8 DIN		99 0646 00 08
		12		99 0650 00 12

Female angled connector		3 DIN	4–6 mm	99 0606 70 03
		4		99 0610 70 04
		5		99 0614 70 05
		6 DIN		99 0618 70 06
		7		99 0622 70 07
		8 DIN		99 0646 70 08
		12		99 0650 70 12

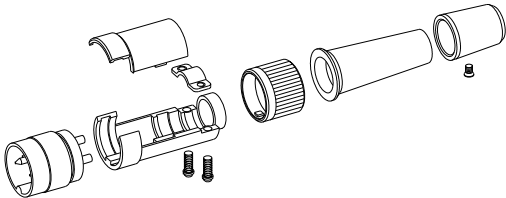
Specifications							
Contacts	3 DIN	4	5	6 DIN	7	8 DIN	12
Wire gauge	max. 0,75 mm ² (max. AWG 20)						max. 0,25 mm ² (max. AWG 24)
Mechanical operation	> 500 Mating cycles						
Temperature range	– 40 °C / + 85 °C						
Rated voltage	250 V (32 V)				125 V (32 V)	60 V (32 V)	
Pollution degree	1 (2) ¹⁾						
Rated current (40°C)	7 A	6 A			5 A		3 A
Contact plating	Ag (Silver)						Au (Gold)
Material of housing	PA						

Description	Drawing	Contacts	Ordering-No.
Male panel mount connector		3 DIN	99 0607 00 03
		4	99 0611 00 04
		5	99 0615 00 05
		6 DIN	99 0619 00 06
		7	99 0623 00 07
		8 DIN	99 0647 00 08
Female panel mount connector		12	99 0651 00 12

Male panel mount connector		3 DIN	99 0608 00 03
		4	99 0612 00 04
		5	99 0616 00 05
		6 DIN	99 0620 00 06
		7	99 0624 00 07
		8 DIN	99 0648 00 08
Female panel mount connector		12	99 0652 00 12

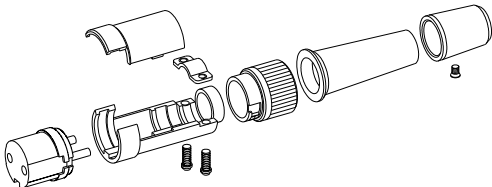
Component part drawing

Male cable connector



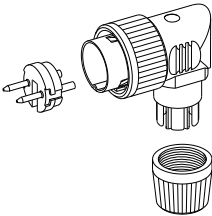
- Male insert
- Carrier sleeve
- Fillister head screw
- Strap
- Cover
- Locking ring
- Cable bushing
- Self-tapping screw
- Sleeve

Female cable connector



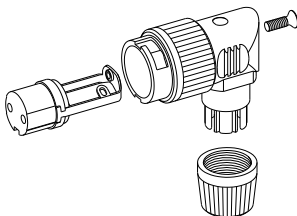
- Female insert
- Carrier sleeve
- Fillister head screw
- Strap
- Cover
- Locking ring
- Cable bushing
- Self-tapping screw
- Sleeve

Male angled connector



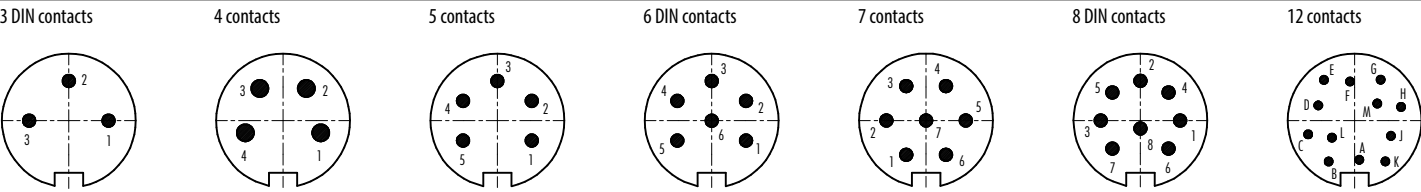
- Male insert
- Male angled housing
- Pressing screw
- Cable outlet not adjustable

Female angled connector

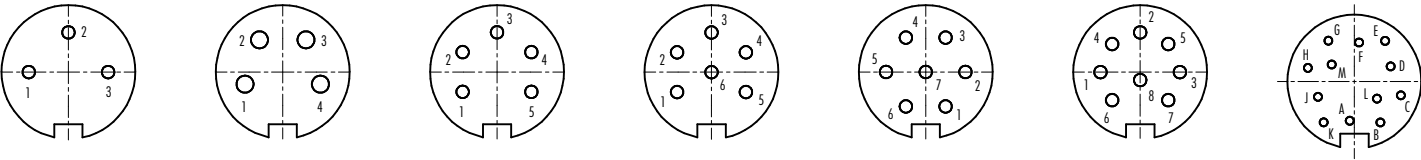


- Female insert
- Holding device
- Female angled housing
- Countersunk screw
- Pressing screw
- Cable outlet not adjustable

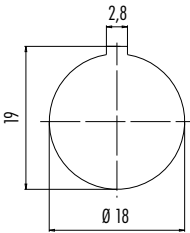
Contact arrangements male insert (mating side)



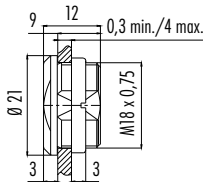
Contact arrangements female insert (mating side)



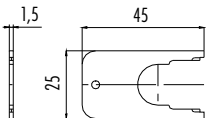
Panel cut out



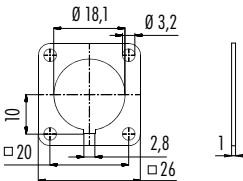
Description	Drawing	Ordering-No.
Blind plug		08 2668 000 001



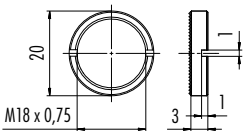
Mounting spanner for panel mount connectors	07 0010 001
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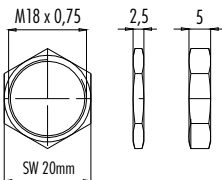
Rectangular flange for panel mount connectors, IP40	04 0106 001
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Ring nut for fixing thread	01 0010 001 with knurled screw
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	Thickness	Ordering-No.
Hexagonal nut	2,5 mm	01 0146 001
	5 mm	01 5006 001

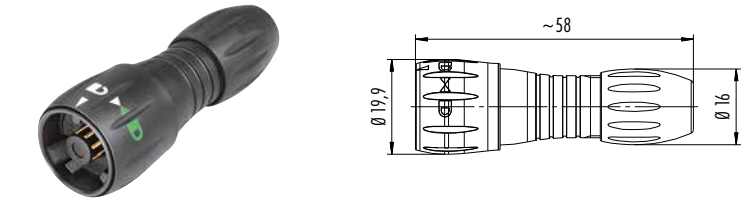




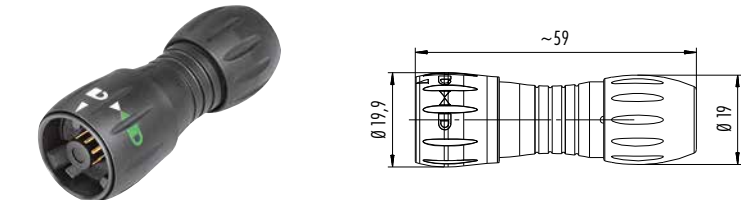


- Bayonet locking system
- 8 contacts
- Degree of protection IP67
- Solder termination
- Diameter 19,9 mm
- > 5000 Mating cycles
- Panel mount connectors:
Degree of protection IP67
even when not connected

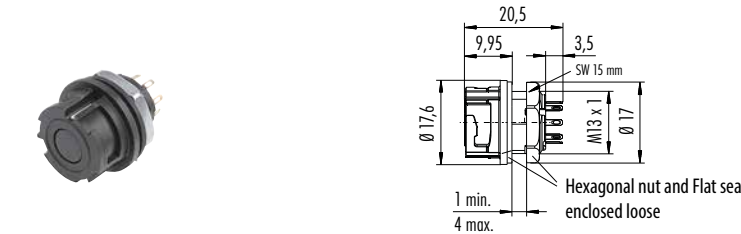
Description	Drawing	Contacts	Cable outlet 2,5–4 mm	Cable outlet 4–6 mm
Male cable connector		8	99 0771 000 08	99 0771 001 08



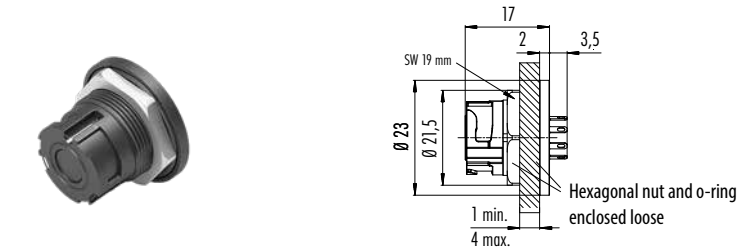
Description	Drawing	Contacts	Cable outlet 6–8 mm
Male cable connector		8	99 0771 002 08



Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, solder		8	09 0774 000 08



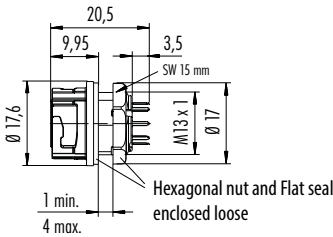
Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, solder, front fastened		8	09 0774 180 08



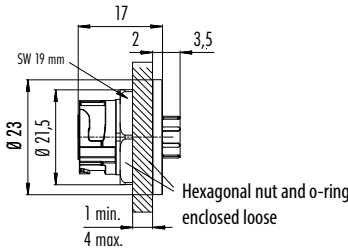
■ NEW

Specifications			
Contacts	8		
Wire gauge	0,25 mm ² (AWG 24)		
Mechanical operation	> 5000 Mating cycles		
Temperature range	– 25 °C /+ 85 °C		
Rated voltage	175 V		
Pollution degree	2		
Rated current (40°C)	2 A		
Contact plating	Au (Gold)		
Material of housing	PA		

		Ordering-No.
Female panel mount connector, dip-solder	8	09 0774 090 08



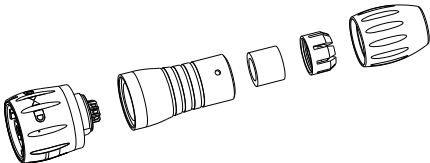
Female panel mount connector, dip-solder, front fastened	8	09 0774 190 08
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NEW

Component part drawing

Cable connectors

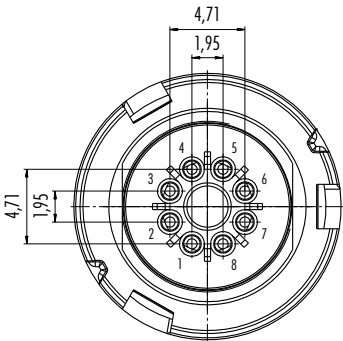


- Male insert
- Sleeve
- Seal
- Pinch ring
- Pressing screw

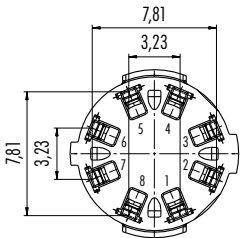
Panel mount connectors, solder	Female insert Panel mount connector housing with colour coding Flat seal Hexagonal nut	Panel mount connectors, dip-solder	Female insert Panel mount connector housing with colour coding Flat seal Hexagonal nut	Female panel mount connectors, front fastened, solder/dip-solder	Hexagonal nut O-ring Female panel mount connector

Contact arrangement male insert (termination side)

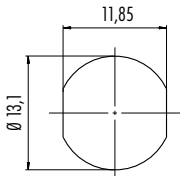
8 contacts



Contact arrangement female insert (termination side)



Panel cut out





- Push-Pull locking system
- 3 – 19 contacts
- Degree of protection IP40/IP67
- Solder termination
- Diameter 20 mm
- Shieldable

Description

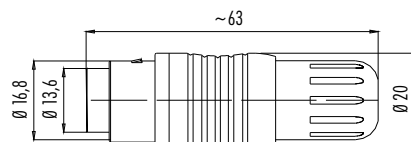
Drawing

Contacts

Cable outlet

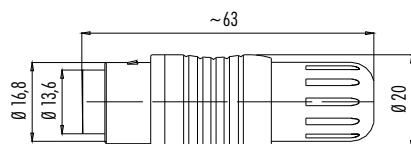
Ordering-No.

Male cable connector, shieldable, IP67



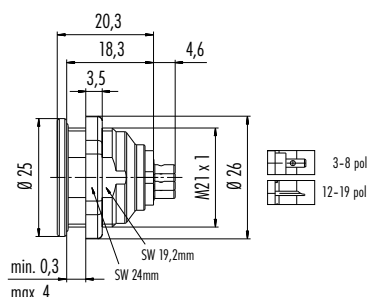
3 DIN	4–8 mm	99 4805 00 03
4		99 4809 00 04
5		99 4813 00 05
6 DIN		99 4817 00 06
7		99 4825 00 07
8 DIN		99 4829 00 08
12		99 4833 00 12
19		99 4841 00 19

Female cable connector, shieldable, IP67



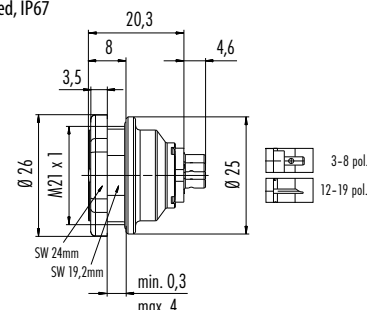
3 DIN	4–8 mm	99 4806 00 03
4		99 4810 00 04
5		99 4814 00 05
6 DIN		99 4818 00 06
7		99 4826 00 07
8 DIN		99 4830 00 08
12		99 4834 00 12
19		99 4842 00 19

Male panel mount connector, IP40, IP67, shielded, IP67



	IP40	IP67	Shielded, IP67
3 DIN	09 4807 25 03	09 4807 15 03	09 4807 00 03
4	09 4811 25 04	09 4811 15 04	09 4811 00 04
5	09 4815 25 05	09 4815 15 05	09 4815 00 05
6 DIN	09 4819 25 06	09 4819 15 06	09 4819 00 06
7	09 4827 25 07	09 4827 15 07	09 4827 00 07
8 DIN	09 4831 25 08	09 4831 15 08	09 4831 00 08
12	09 4835 25 12	09 4835 15 12	09 4835 00 12
19	09 4843 25 19	09 4843 15 19	09 4843 00 19

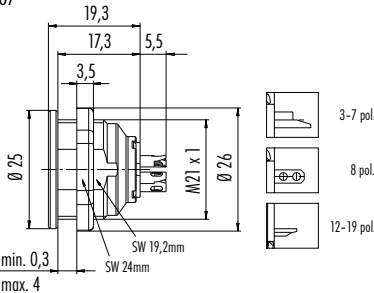
Male panel mount connector, front fastened, IP67, shielded, IP67

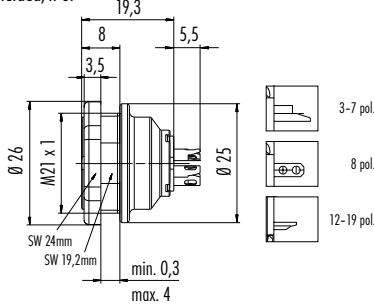


3 DIN	–	09 4807 80 03	09 4807 81 03
4	–	09 4811 80 04	09 4811 81 04
5	–	09 4815 80 05	09 4815 81 05
6 DIN	–	09 4819 80 06	09 4819 81 06
7	–	09 4827 80 07	09 4827 81 07
8 DIN	–	09 4831 80 08	09 4831 81 08
12	–	09 4835 80 12	09 4835 81 12
19	–	09 4843 80 19	09 4843 81 19

Specifications

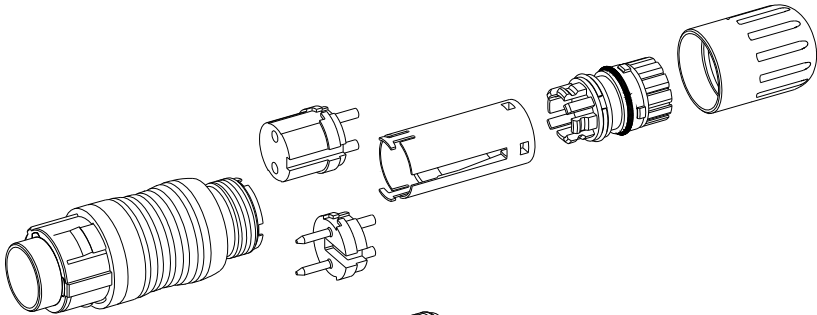
Contacts	3 DIN	4	5	6 DIN	7	8 DIN	12	19
Wire gauge	max. 0,75 mm² (max. AWG 20)						max. 0,25 mm² (max. AWG 24)	
Mechanical operation	> 1000 Mating cycles							
Temperature range	– 40 °C / + 85 °C							
Rated voltage ¹⁾	250 V (32 V)			125 V (32 V)		60 V (32 V)		
Pollution degree	1 (2) ¹⁾							
Rated current (40°C)	7 A	6 A		5 A			3 A	
Contact plating	Ag (Silver)							
Material of housing	PA GF 25							

Description	Drawing	IP40	IP67	Shielded, IP67
Female panel mount connector, IP40, IP67, shielded, IP67		3 DIN	09 4808 25 03	09 4808 15 03
		4	09 4812 25 04	09 4812 15 04
		5	09 4816 25 05	09 4816 15 05
		6 DIN	09 4820 25 06	09 4820 15 06
		7	09 4828 25 07	09 4828 15 07
		8 DIN	09 4832 25 08	09 4832 15 08
		12	09 4836 25 12	09 4836 15 12
		19	09 4844 25 19	09 4844 15 19

Female panel mount connector, front fastened, IP67, shielded, IP67		3 DIN	—	09 4808 80 03	09 4808 81 03
		4	—	09 4812 80 04	09 4812 81 04
		5	—	09 4816 80 05	09 4816 81 05
		6 DIN	—	09 4820 80 06	09 4820 81 06
		7	—	09 4828 80 07	09 4828 81 07
		8 DIN	—	09 4832 80 08	09 4832 81 08
		12	—	09 4836 80 12	09 4836 81 12
		19	—	09 4844 80 19	09 4844 81 19

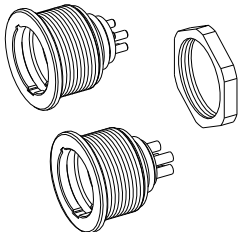
Component part drawing

Cable connectors



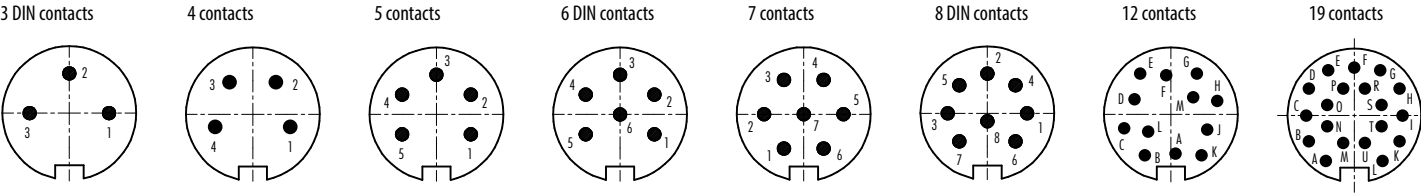
- Locking device
- Male insert
- Female insert
- Distance sleeve
- Clamping device
- Pressing screw

Panel mount connectors

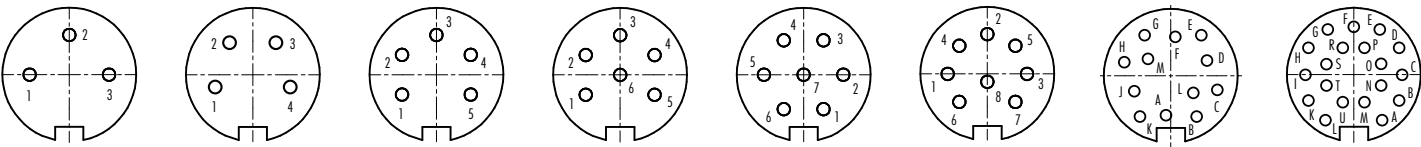


- Panel mount connector housing
- Female insert
- Male insert
- Hexagonal nut

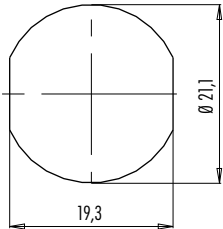
Contact arrangements male insert (mating side)



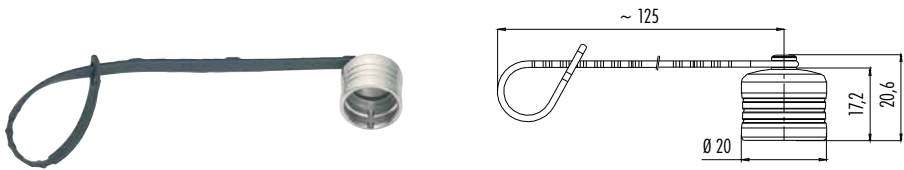
Contact arrangements female insert (mating side)



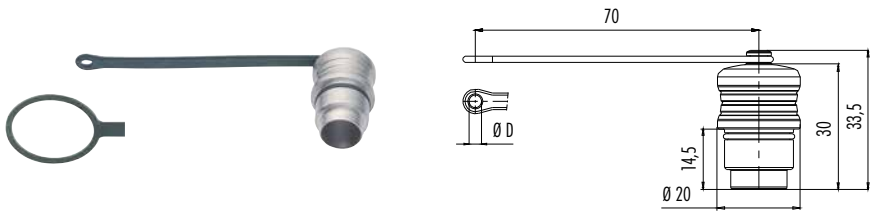
Panel cut out



Description	Drawing	Ordering-No.
Protection cap for cable connectors, IP67		08 2605 000 001



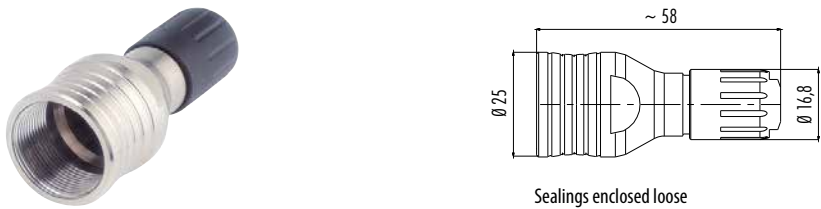
	Hole-Ø D	Ordering-No.
Protection cap for panel mount connectors, IP67	3 mm	08 2604 000 001
	21 mm	08 2679 000 001



	Ordering-No.
Protection cap for panel mount connectors, IP40	08 2603 000 000



	Cable outlet	Ordering-No.
Adapter for a cable-cable connection to mate a panel mount connector	4–6 mm/6–8 mm	08 2606 000 001



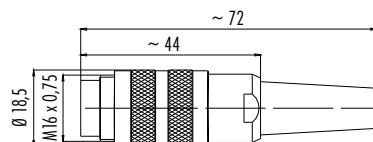




- Screw termination M16
- Degree of protection IP40
- Solder-/Crimp-/Screw clamp termination
- Diameter 17,2 mm/17,5mm/18,5 mm/20 mm
- Shieldable versions
- Acc. to DIN EN 61076-2-106

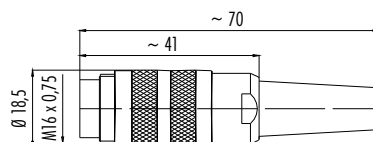
Description**Drawing**

Male cable connector with solder eye ring, shieldable

**Contacts****Cable outlet 4–6 mm****Cable outlet 6–8 mm**

3 DIN	99 2005 00 03	99 2005 02 03
4	99 2009 00 04	99 2009 02 04
5	99 2013 00 05	99 2013 02 05
6 DIN	99 2021 00 06	99 2021 02 06
7	99 2025 00 07	99 2025 02 07
8 DIN	99 2061 00 08	99 2061 02 08
12	99 2029 00 12	99 2029 02 12
19	99 2041 00 19	99 2041 02 19

Male cable connector with cable clamp, shieldable



3 DIN	99 2005 10 03	99 2005 20 03
4	99 2009 10 04	99 2009 20 04
5	99 2013 10 05	99 2013 20 05
6 DIN	99 2021 10 06	99 2021 20 06
7	99 2025 10 07	99 2025 20 07
8 DIN	99 2061 10 08	99 2061 20 08
12	99 2029 10 12	99 2029 20 12
19	99 2041 10 19	99 2041 20 19

Male cable connector with cable clamp, screw clamp connection, shieldable



3 DIN	99 2005 210 03	99 2005 220 03
4	99 2009 210 04	99 2009 220 04
5	99 2013 210 05	99 2013 220 05

Male cable connector with cable clamp, crimp connection, shieldable

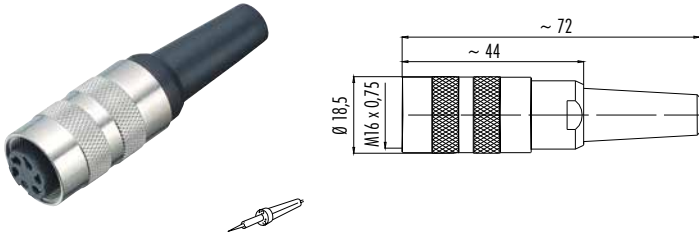


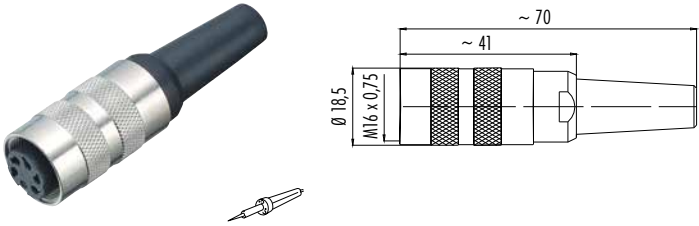
4	99 2009 700 04	99 2009 702 04
5	99 2013 700 05	99 2013 702 05
6 DIN	99 2021 700 06	99 2021 702 06
7	99 2025 700 07	99 2025 702 07
8 DIN	99 2061 700 08	99 2061 702 08

Crimp contacts see page 52

Specifications

Contacts	3 DIN	4	5	6 DIN	7	8 DIN	12	19
Wire gauge	max. 0,75 mm² (max. AWG 20)						max. 0,25 mm² (max. AWG 24)	
Mechanical operation	> 500 Mating cycles							
Temperature range	– 40 °C / + 85 °C							
Rated voltage ¹⁾	250 V (32 V)				125 V (32 V)		60 V (32 V)	
Pollution degree	1 (2) ¹⁾							
Rated current (40°C)	7 A	6 A		5 A			3 A	
Contact plating	Ag (Silver)						Au (Gold)	
Material of housing	CuZn (brass, nickel plated)							

Description	Drawing	Contacts	Cable outlet 4–6 mm	Cable outlet 6–8 mm
Female cable connector with solder eye ring, shieldable		3 DIN	99 2006 00 03	99 2006 02 03
		4	99 2010 00 04	99 2010 02 04
		5	99 2014 00 05	99 2014 02 05
		6 DIN	99 2022 00 06	99 2022 02 06
		7	99 2026 00 07	99 2026 02 07
		8 DIN	99 2062 00 08	99 2062 02 08
		12	99 2030 00 12	99 2030 02 12
		19	99 2042 00 19	99 2042 02 19

Female cable connector with cable clamp, shieldable		3 DIN	99 2006 10 03	99 2006 20 03
		4	99 2010 10 04	99 2010 20 04
		5	99 2014 10 05	99 2014 20 05
		6 DIN	99 2022 10 06	99 2022 20 06
		7	99 2026 10 07	99 2026 20 07
		8 DIN	99 2062 10 08	99 2062 20 08
		12	99 2030 10 12	99 2030 20 12
		19	99 2042 10 19	99 2042 20 19

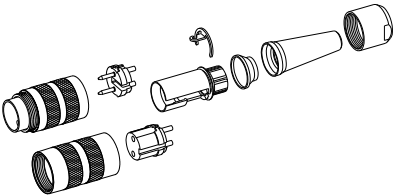
Female cable connector with cable clamp, screw clamp connection, shieldable	3 DIN	99 2006 210 03	99 2006 220 03
	4	99 2010 210 04	99 2010 220 04
	5	99 2014 210 05	99 2014 220 05

Female cable connector with cable clamp, crimp connection, shieldable	4	99 2010 700 04	99 2010 702 04
	5	99 2014 700 05	99 2014 702 05
	6 DIN	99 2022 700 06	99 2022 702 06
	7	99 2026 700 07	99 2026 702 07
	8 DIN	99 2062 700 08	99 2062 702 08

Crimp contacts see page 52

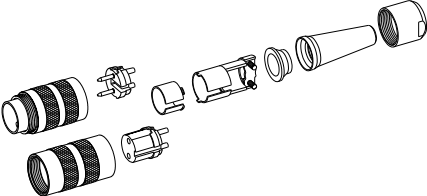
Component part drawing

Cable connectors with solder eye ring



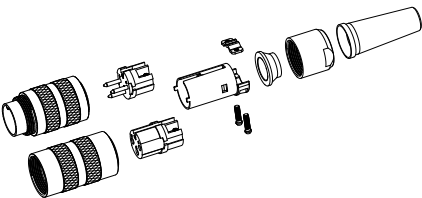
- Male ring nut/
- Female ring nut
- Female insert/
- Male insert
- Cable clamp
- Solder eye ring
- Thrust collar
- Cable bushing
- Pressing screw

Cable connectors with cable clamp



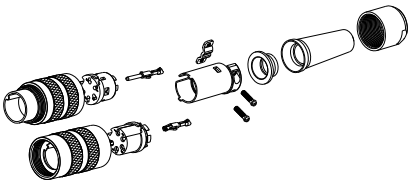
- Male ring nut/
- Female ring nut
- Female insert/
- Male insert
- Cable clamp
- Thrust collar
- Cable bushing
- Pressing screw

Cable connectors with screw clamp connection

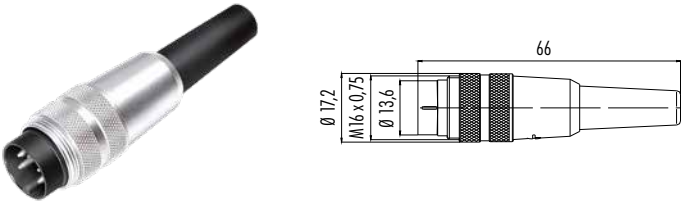


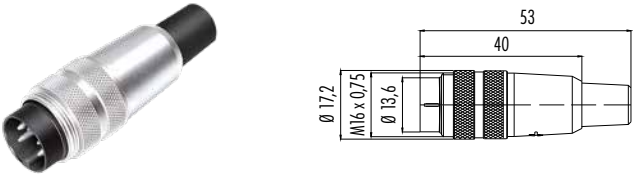
- Male ring nut/
- Female ring nut
- Female insert/
- Male insert
- Cable clamp
- Thrust collar
- Pressing screw
- Cable bushing

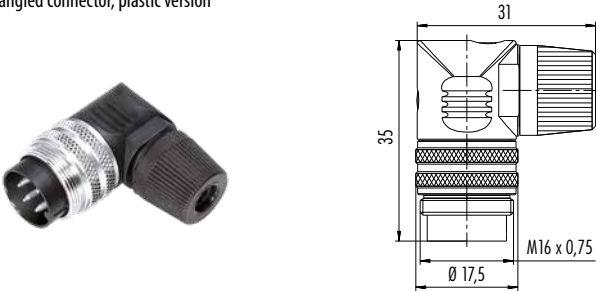
Cable connectors with crimp connection

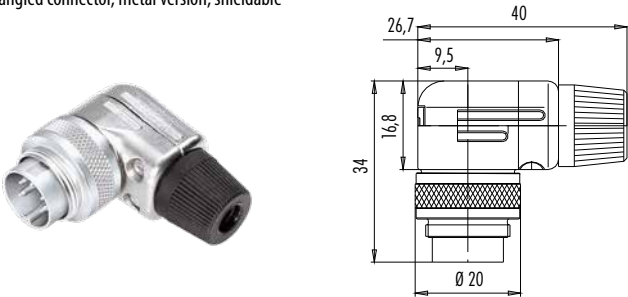


- Male ring nut/
- Female ring nut
- Female insert/
- Male insert
- Female contact/
- Male contact
- Cable clamp
- Thrust collar
- Cable bushing
- Pressing screw

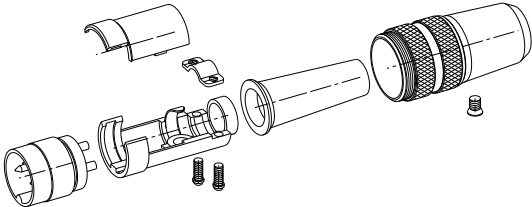
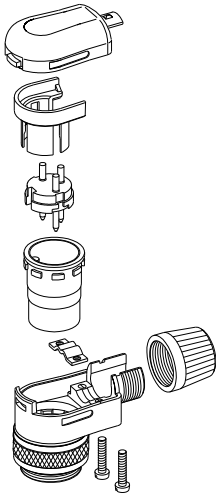
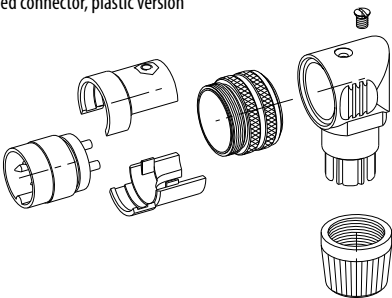
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector		3 DIN	4–6 mm	09 0305 00 03
		4		09 0309 00 04
		5		09 0313 00 05
		6 DIN		09 0321 00 06
		7		09 0325 00 07
		8 DIN		09 0571 00 08
		12		09 0329 00 12
		19		09 0343 00 19

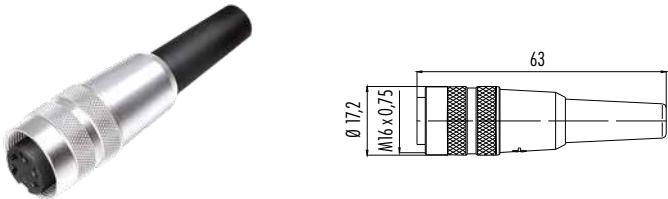
Male cable connector		3 DIN	6–8 mm	09 0305 02 03
		4		09 0309 02 04
		5		09 0313 02 05
		6 DIN		09 0321 02 06
		7		09 0325 02 07
		8 DIN		09 0571 02 08
		12		09 0329 02 12
		19		09 0343 02 19

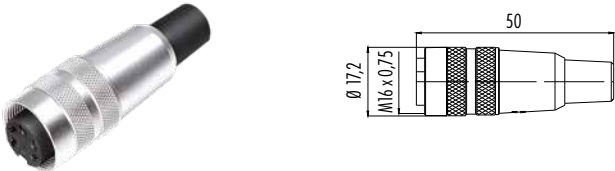
Male angled connector, plastic version		Contacts	Cable outlet 4–6 mm	Cable outlet 6–8 mm
		3 DIN	09 0135 70 03	09 0135 72 03
		4	09 0137 70 04	09 0137 72 04
		5	09 0139 70 05	09 0139 72 05
		6 DIN	09 0143 70 06	09 0143 72 06
		7	09 0145 70 07	09 0145 72 07
		8 DIN	09 0153 70 08	09 0153 72 08
		12	09 0147 70 12	09 0147 72 12
		19	09 0163 70 19	09 0163 72 19

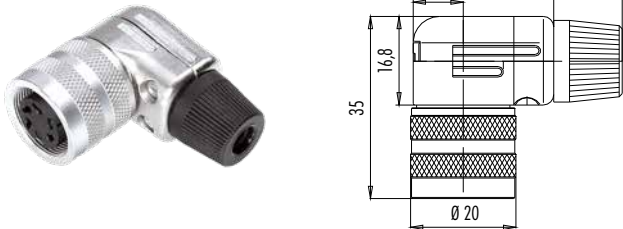
Male angled connector, metal version, shieldable		3 DIN	99 0135 10 03	99 0135 12 03
		4	99 0137 10 04	99 0137 12 04
		5	99 0139 10 05	99 0139 12 05
		6 DIN	99 0143 10 06	99 0143 12 06
		7	99 0145 10 07	99 0145 12 07
		8 DIN	99 0153 10 08	99 0153 12 08
		12	99 0147 10 12	99 0147 12 12
		19	99 0163 10 19	99 0163 12 19

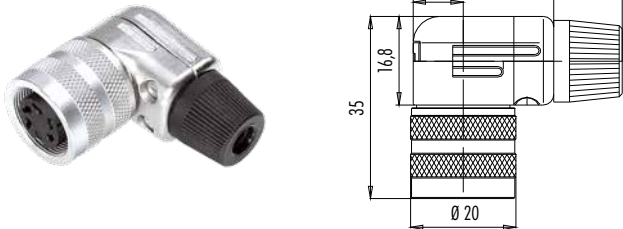
Component part drawing

Male cable connector		Male insert		Male ring nut
		Carrier sleeve		Housing
		Cover		Fillister head screw
		Fillister head screw		Strap
		Strap		Pressing screw
		Cable bushing		Torsional sleeve
		Sleeve with coupling ring		Male insert
		Countersunk head screw		Distance sleeve
Male angled connector, plastic version		Male insert		Cover
		Carrier sleeve		Cable outlet adjustable in 4 positions
		Male ring nut		
		Angled housing		
		Countersunk screw		
		Pressing screw		
		Cable outlet not adjustable		

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector		3 DIN	4–6 mm	09 0306 00 03
		4		09 0310 00 04
		5		09 0314 00 05
		6 DIN		09 0322 00 06
		7		09 0326 00 07
		8 DIN		09 0572 00 08
		12		09 0330 00 12
		19		09 0344 00 19

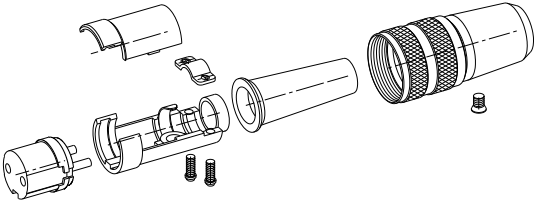
Female cable connector		3 DIN	6–8 mm	09 0306 02 03
		4		09 0310 02 04
		5		09 0314 02 05
		6 DIN		09 0322 02 06
		7		09 0326 02 07
		8 DIN		09 0572 02 08
		12		09 0330 02 12
		19		09 0344 02 19

Female angled connector, plastic version		Contacts	Cable outlet 4–6 mm	Cable outlet 6–8 mm
		3 DIN	09 0136 70 03	09 0136 72 03
		4	09 0138 70 04	09 0138 72 04
		5	09 0140 70 05	09 0140 72 05
		6 DIN	09 0144 70 06	09 0144 72 06
		7	09 0146 70 07	09 0146 72 07
		8 DIN	09 0154 70 08	09 0154 72 08
		12	09 0148 70 12	09 0148 72 12
Female angled connector, metal version, shieldable		19	09 0166 70 19	09 0164 72 19

Female angled connector, metal version, shieldable		3 DIN	99 0136 10 03	99 0136 12 03
		4	99 0138 10 04	99 0138 12 04
		5	99 0140 10 05	99 0140 12 05
		6 DIN	99 0144 10 06	99 0144 12 06
		7	99 0146 10 07	99 0146 12 07
		8 DIN	99 0154 10 08	99 0154 12 08
		12	99 0148 10 12	99 0148 12 12
		19	99 0164 10 19	99 0164 12 19

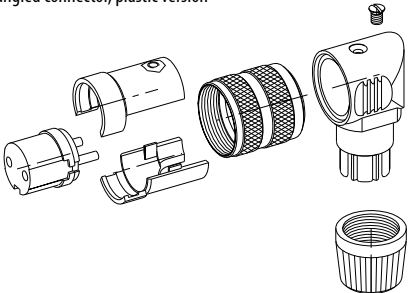
Component part drawing

Female cable connector



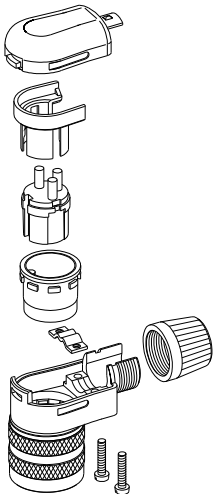
- Female insert
- Carrier sleeve
- Cover
- Fillister head screw
- Strap
- Cable bushing
- Sleeve with coupling ring
- Countersunk head screw

Female angled connector, plastic version



- Female insert
- Carrier sleeve
- Female ring nut
- Angled housing
- Countersunk screw
- Pressing screw
- Cable outlet not adjustable

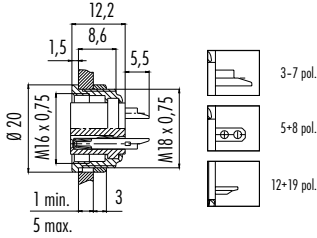
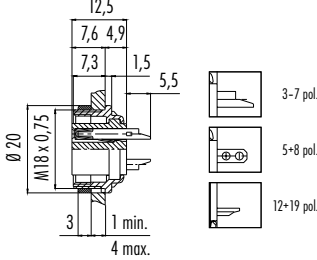
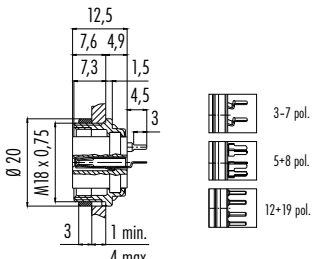
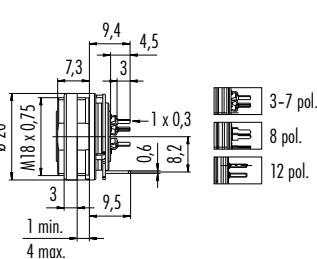
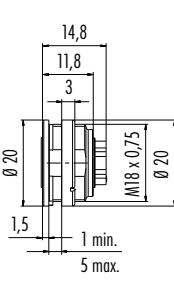
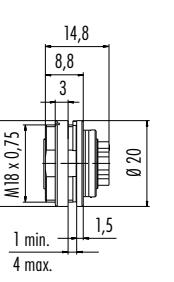
Female angled connector, metal version

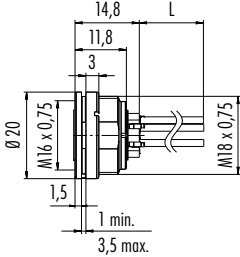


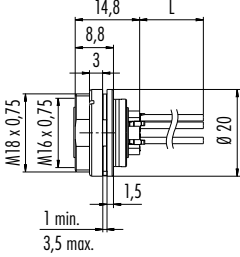
- Female ring nut
- Housing
- Fillister head screw
- Strap
- Pressing screw
- Torsional sleeve
- Female insert
- Distance sleeve
- Cover
- Cable outlet adjustable in 4 positions

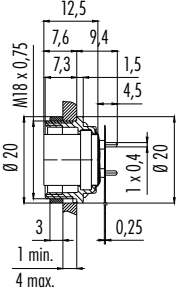
Description	Drawing	Contacts	Ordering-No.
Male panel mount connector, solder		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0307 00 03 09 0311 00 04 09 0315 00 05 09 0323 00 06 09 0327 00 07 09 0473 00 08 09 0331 00 12 09 0335 00 19
Male panel mount connector, solder, front fastened		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0307 80 03 09 0311 80 04 09 0315 80 05 09 0323 80 06 09 0327 80 07 09 0473 80 08 09 0331 80 12 09 0335 80 19
Male panel mount connector, dip-solder, front fastened		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0307 90 03 09 0311 90 04 09 0315 90 05 09 0323 90 06 09 0327 90 07 09 0473 90 08 09 0331 90 12 09 0335 90 19
Male panel mount connector, dip-solder, front fastened, with shield connection		5 6 DIN 8 DIN 12	09 0315 290 05 09 0323 290 06 09 0473 290 08 09 0331 290 12
Male panel mount connector, crimp		4 5 6 DIN 7 8 DIN	09 0311 700 04 09 0315 700 05 09 0323 700 06 09 0327 700 07 09 0473 700 08
Crimp contacts see page 52			
Male panel mount connector, crimp, front fastened		4 5 6 DIN 7 8 DIN	09 0311 780 04 09 0315 780 05 09 0323 780 06 09 0327 780 07 09 0473 780 08
Crimp contacts see page 52			

Description	Drawing	Contacts	Ordering-No.
Male panel mount connector, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0311 702 04 09 0315 702 05 09 0323 702 06 09 0327 702 07 09 0473 702 08
Male panel mount connector, front fastened, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0311 782 04 09 0315 782 05 09 0323 782 06 09 0327 782 07 09 0473 782 08
Male panel mount connector with flexible PCB, front fastened		7 8 DIN 12	09 0327 65 07 09 0473 65 08 09 0331 65 12 single-row 09 0331 66 12 double-row

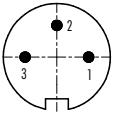
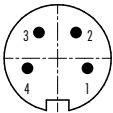
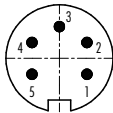
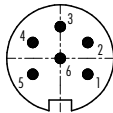
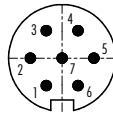
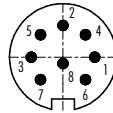
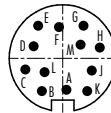
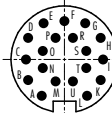
Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, solder	 	3 DIN	09 0308 00 03
		4	09 0312 00 04
		5	09 0316 00 05
		6 DIN	09 0324 00 06
		7	09 0328 00 07
		8 DIN	09 0474 00 08
Female panel mount connector, solder, front fastened	 	3 DIN	09 0308 80 03
		4	09 0312 80 04
		5	09 0316 80 05
		6 DIN	09 0324 80 06
		7	09 0328 80 07
		8 DIN	09 0474 80 08
Female panel mount connector, dip-solder, front fastened	 	3 DIN	09 0308 90 03
		4	09 0312 90 04
		5	09 0316 90 05
		6 DIN	09 0324 90 06
		7	09 0328 90 07
		8 DIN	09 0474 90 08
Female panel mount connector, dip-solder, front fastened, with shield connection	 	3	09 0308 290 03
		4	09 0312 290 04
		5	09 0316 290 05
		6 DIN	09 0324 290 06
		7	09 0328 290 07
		8 DIN	09 0474 290 08
Female panel mount connector, crimp	 	4	09 0312 700 04
		5	09 0316 700 05
		6 DIN	09 0324 700 06
		7	09 0328 700 07
		8 DIN	09 0474 700 08
Female panel mount connector, crimp, front fastened	 	4	09 0312 780 04
		5	09 0316 780 05
		6 DIN	09 0324 780 06
		7	09 0328 780 07
		8 DIN	09 0474 780 08

Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0312 702 04 09 0316 702 05 09 0324 702 06 09 0328 702 07 09 0474 702 08

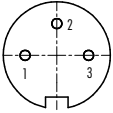
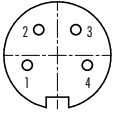
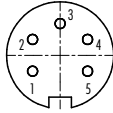
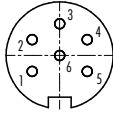
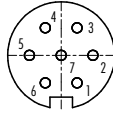
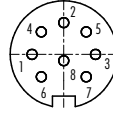
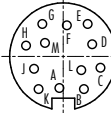
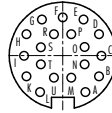
Female panel mount connector, front fastened, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0312 782 04 09 0316 782 05 09 0324 782 06 09 0328 782 07 09 0474 782 08
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Female panel mount connector with flexible PCB, front fastened		7 8 DIN 12	09 0328 65 07 09 0474 65 08 09 0332 65 12 single-row 09 0332 66 12 double-row
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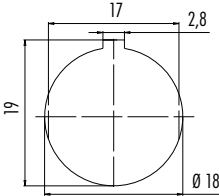
Contact arrangements male insert (mating side)

3 DIN contacts	4 contacts	5 contacts	6 DIN contacts	7 contacts	8 DIN contacts	12 contacts	19 contacts
							

Contact arrangements female insert (mating side)

							
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Panel cut out

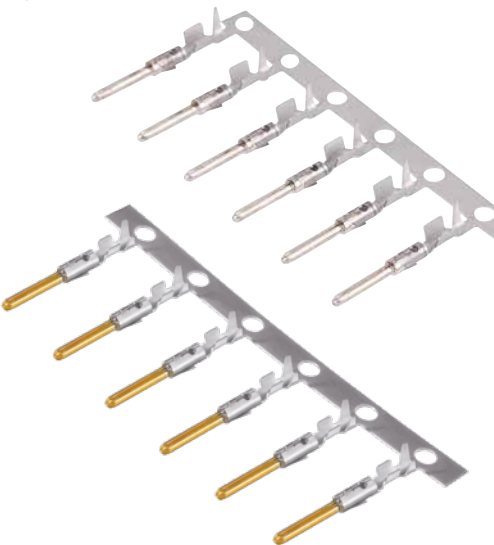


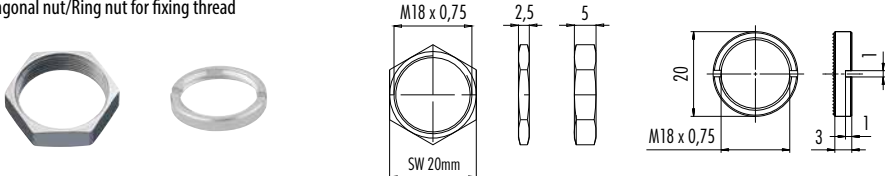
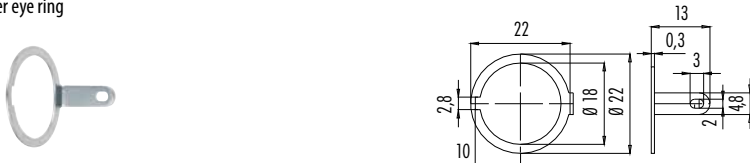
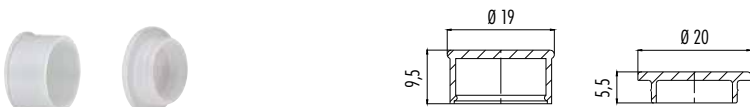
Recommended drill holes for PCBs

2 – 8 contacts	1,1 mm
12 – 24 contacts	0,8 mm

Colour of wires of panel mount connectors

- 4–8 contacts
- 1 white
- 2 brown
- 3 green
- 4 yellow
- 5 grey
- 6 pink
- 7 blue
- 8 red

Description		Drawing								
Single contact (Male), PU 50 pieces										
Single contact (Female), PU 50 pieces										
		Contact-Ø	Insulating-Ø	Wire gauge	PU	Pieces	Silver	Gold		
		1,5 mm	1,0–2,0 mm	0,14–0,25 mm²	Single	50	61 0799 085 00	61 0799 098 00		
					Strip	200	65 0799 085 01	65 0799 098 01		
					Strip	2.000	65 0799 085 02	65 0799 098 02		
					Strip	4.000	65 0799 085 04	65 0799 098 04		
					Strip	10.000	65 0799 085 10	65 0799 098 10		
				0,35–0,5 mm²	Single	50	61 0795 085 00	61 0795 098 00		
					Strip	200	65 0795 085 01	65 0795 098 01		
					Strip	2.000	65 0795 085 02	65 0795 098 02		
					Strip	4.000	65 0795 085 04	65 0795 098 04		
					Strip	10.000	65 0795 085 10	65 0795 098 10		
		1,6–2,1 mm	0,75–1,0 mm²	Single	50	61 0796 085 00	61 0796 098 00			
				Strip	200	65 0796 085 01	65 0796 098 01			
				Strip	2.000	65 0796 085 02	65 0796 098 02			
				Strip	4.000	65 0796 085 04	65 0796 098 04			
				Strip	10.000	65 0796 085 10	65 0796 098 10			
				1,5 mm	1,0–2,0 mm	0,14–0,25 mm²	Single	50	61 0800 085 00	61 0800 098 00
							Strip	200	65 0800 085 01	65 0800 098 01
							Strip	2.000	65 0800 085 02	65 0800 098 02
							Strip	4.000	65 0800 085 04	65 0800 098 04
							Strip	10.000	65 0800 085 10	65 0800 098 10
0,35–0,5 mm²	Single					50	61 0797 085 00	61 0797 098 00		
	Strip					200	65 0797 085 01	65 0797 098 01		
	Strip					2.000	65 0797 085 02	65 0797 098 02		
	Strip					4.000	65 0797 085 04	65 0797 098 04		
	Strip					10.000	65 0797 085 10	65 0797 098 10		
1,6–2,1 mm	0,75–1,0 mm²			Single	50	61 0798 085 00	61 0798 098 00			
				Strip	200	65 0798 085 01	65 0798 098 01			
				Strip	2.000	65 0798 085 02	65 0798 098 02			
				Strip	4.000	65 0798 085 04	65 0798 098 04			
				Strip	10.000	65 0798 085 10	65 0798 098 10			

Description	Drawing	Ordering-No.								
Mounting spanner for panel mount connectors		07 0010 001								
Rectangular flange for panel mount connectors		04 0106 001								
Hexagonal nut/Ring nut for fixing thread		<table><tr><th>Thickness</th><th>Ordering-No.</th></tr><tr><td>2,5 mm</td><td>01 0146 001 Hexagonal nut</td></tr><tr><td>5 mm</td><td>01 5006 001 Hexagonal nut</td></tr><tr><td>—</td><td>01 0010 001 Ring nut with knurled screw</td></tr></table>	Thickness	Ordering-No.	2,5 mm	01 0146 001 Hexagonal nut	5 mm	01 5006 001 Hexagonal nut	—	01 0010 001 Ring nut with knurled screw
Thickness	Ordering-No.									
2,5 mm	01 0146 001 Hexagonal nut									
5 mm	01 5006 001 Hexagonal nut									
—	01 0010 001 Ring nut with knurled screw									
Solder eye ring		04 0183 009								
Blind plug		<table><tr><th>Height</th><th>Ordering-No.</th></tr><tr><td>12 mm</td><td>08 2668 000 001</td></tr></table>	Height	Ordering-No.	12 mm	08 2668 000 001				
Height	Ordering-No.									
12 mm	08 2668 000 001									
Protection cap for panel mount connectors, IP40		<table><tr><td>9,5 mm</td><td>02 0054 000</td></tr><tr><td>5,5 mm</td><td>02 0055 001</td></tr><tr><td></td><td>02 0055 000 black</td></tr></table>	9,5 mm	02 0054 000	5,5 mm	02 0055 001		02 0055 000 black		
9,5 mm	02 0054 000									
5,5 mm	02 0055 001									
	02 0055 000 black									
Distance sleeve for panel mount connectors, dip-solder version		02 0007 000								
Mounting spanner for straight, shieldable cable connectors		02 1785 000								
Crimping tool for single contacts		66 0001 014 100								
Crimping tool for strip contacts		67 0001 014 100								
Extraction tool for crimp contacts		07 0090 000								

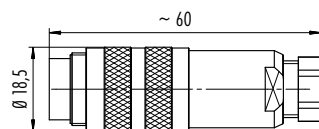


- Screw termination M16
- Degree of protection IP67
- Solder-/Crimp-/Screw clamp termination
- Moulded versions
- shieldable
- Acc. to DIN EN 61076-2-106
- AISG compatible

c **RV** **us** certified under number
20120329-E30 2391

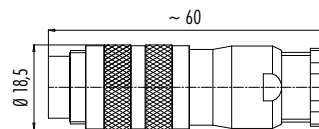
Description**Drawing**

Male cable connector with shielding ring/cable clamp, shieldable, solder termination

**c** **RV** **us****Contacts****Cable outlet****Shielding ring****Cable clamp**

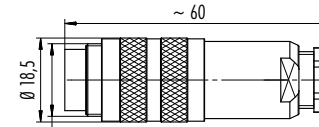
3 DIN	4–6 mm	99 5105 15 03	99 5105 00 03
4		99 5109 15 04	99 5109 00 04
5		99 5113 15 05	99 5113 00 05
6 DIN		99 5121 15 06	99 5121 00 06
7		99 5125 15 07	99 5125 00 07
8 DIN		99 5171 15 08	99 5171 00 08
12		99 5129 15 12	99 5129 00 12
19		99 5461 15 19	99 5461 00 19

Male cable connector with shielding ring/cable clamp, shieldable, solder termination

**c** **RV** **us**

3 DIN	6–8 mm	99 5605 15 03	99 5605 00 03
4		99 5609 15 04	99 5609 00 04
5		99 5613 15 05	99 5613 00 05
6 DIN		99 5621 15 06	99 5621 00 06
7		99 5625 15 07	99 5625 00 07
8 DIN		99 5671 15 08	99 5671 00 08
12		99 5629 15 12	99 5629 00 12
19		99 5661 15 19	99 5661 00 19

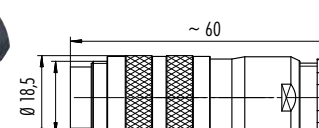
Male cable connector with cable clamp, screw clamp connection/crimp connection, shieldable

**c** **RV** **us****Contacts****Cable outlet****Screw clamp****Crimp**

3 DIN	4–6 mm	99 5105 210 03	–
4		99 5109 210 04	99 5109 700 04
5		99 5113 210 05	99 5113 700 05
6 DIN		–	99 5121 700 06
7		–	99 5125 700 07
8 DIN		–	99 5171 700 08

Crimp contacts see page 63

Male cable connector with cable clamp, screw clamp connection/crimp connection, shieldable

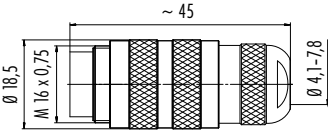
**c** **RV** **us**

3 DIN	6–8 mm	99 5605 210 03	–
4		99 5609 210 04	99 5609 700 04
5		99 5613 210 05	99 5613 700 05
6 DIN		–	99 5621 700 06
7		–	99 5625 700 07
8 DIN		–	99 5671 700 08

Crimp contacts see page 63

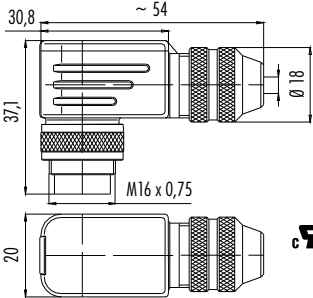
Specifications

Contacts	3 DIN	4	5	6 DIN	7	8 DIN	12	19
Wire gauge	max. 0,75 mm² (max. AWG 20)						max. 0,25 mm² (max. AWG 24)	
Mechanical operation	> 500 Mating cycles							
Temperature range	– 40 °C /+ 95 °C							
Rated voltage ¹⁾	250 V (32 V)				125 V (32 V)		60 V (32 V)	
Pollution degree	1 (2) ¹⁾							
Rated current (40°C)	7 A	6 A		5 A			3 A	
Contact plating	Ag (Silver)						Au (Gold)	
Material of housing	CuZn (brass, nickel plated)							

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector, short version, solder termination	 	3 DIN 4 5 6 DIN 7 8 DIN 12 19	4–8 mm	99 5105 40 03 99 5109 40 04 99 5113 40 05 99 5121 40 06 99 5125 40 07 99 5171 40 08 99 5129 40 12 99 5461 40 19

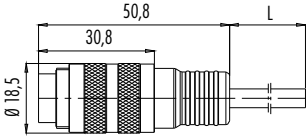
Male cable connector, short version, crimp connection	 	4 5 6 DIN 7 8 DIN	4–8 mm	99 5109 740 04 99 5113 740 05 99 5121 740 06 99 5125 740 07 99 5171 740 08
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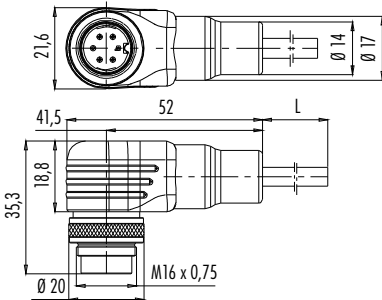
Crimp contacts see page 63

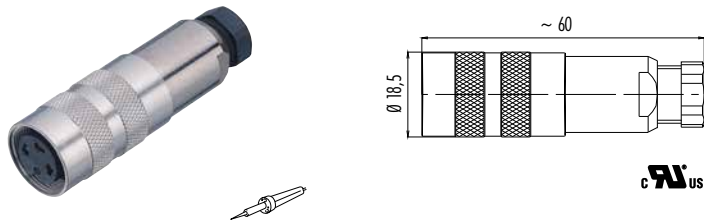
Male angled connector, shieldable, solder termination	 	3 DIN 4 5 6 DIN 7 8 DIN 12 19	Cable outlet 4–6 mm	Cable outlet 6–8 mm
			99 5105 75 03 99 5109 75 04 99 5113 75 05 99 5121 75 06 99 5125 75 07 99 5171 75 08 99 5129 75 12 99 5461 75 19	99 5605 75 03 99 5609 75 04 99 5613 75 05 99 5621 75 06 99 5625 75 07 99 5671 75 08 99 5629 75 12 99 5661 75 19

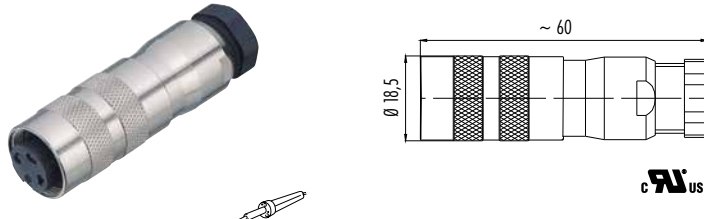
Male angled connector, shieldable, crimp connection	 	4 5 6 DIN 7 8 DIN	99 5109 750 04 99 5113 750 05 99 5121 750 06 99 5125 750 07 99 5171 750 08	99 5609 750 04 99 5613 750 05 99 5621 750 06 99 5625 750 07 99 5671 750 08
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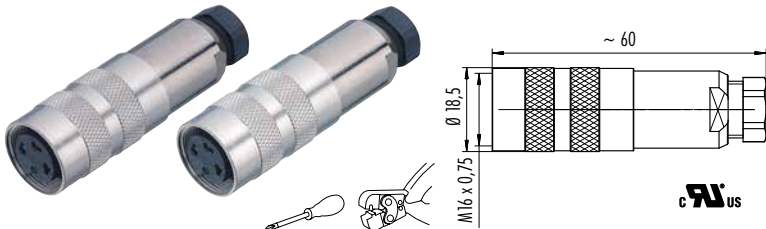
Crimp contacts see page 63

Male cable connector, moulded	 	5 x 0,25 6 DIN x 0,25 8 DIN x 0,25 12 x 0,25	2 m	79 6013 20 05 – 79 6071 20 08 79 6029 20 12	79 6113 20 05 79 6117 20 06 79 6171 20 08 79 6129 20 12
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Male angled connector, moulded	 	5 x 0,25 6 DIN x 0,25 8 DIN x 0,25 12 x 0,25	2 m	79 6213 200 05 – 79 6271 200 08 79 6229 200 12	79 6313 200 05 79 6317 200 06 79 6371 200 08 79 6329 200 12
--------------------------------	---	---	-----	---	--

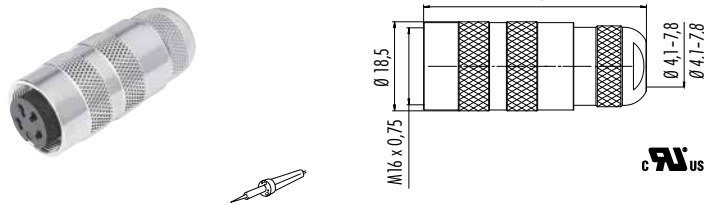
Description	Drawing	Contacts	Cable outlet	Shielding ring	cable clamp
Female cable connector with shielding ring/cable clamp, shieldable		3 DIN	4–6 mm	99 5106 15 03	99 5106 00 03
		4		99 5110 15 04	99 5110 00 04
		5		99 5114 15 05	99 5114 00 05
		6 DIN		99 5122 15 06	99 5122 00 06
		7		99 5126 15 07	99 5126 00 07
		8 DIN		99 5172 15 08	99 5172 00 08
		12		99 5130 15 12	99 5130 00 12
		19		99 5462 15 19	99 5462 00 19

Female cable connector with shielding ring/cable clamp, shieldable		3 DIN	6–8 mm	99 5606 15 03	99 5606 00 03
		4		99 5610 15 04	99 5610 00 04
		5		99 5614 15 05	99 5614 00 05
		6 DIN		99 5622 15 06	99 5622 00 06
		7		99 5626 15 07	99 5626 00 07
		8 DIN		99 5672 15 08	99 5672 00 08
		12		99 5630 15 12	99 5630 00 12
		19		99 5662 15 19	99 5662 00 19

Description	Drawing	Contacts	Cable outlet	Screw clamp	Crimp
Female cable connector with cable clamp, screw clamp connection/crimp connection, shieldable		3 DIN	4–6 mm	99 5106 210 03	–
		4		99 5110 210 04	99 5110 700 04
		5		99 5114 210 05	99 5114 700 05
		6 DIN		–	99 5122 700 06
		7		–	99 5126 700 07
		8 DIN		–	99 5172 700 08

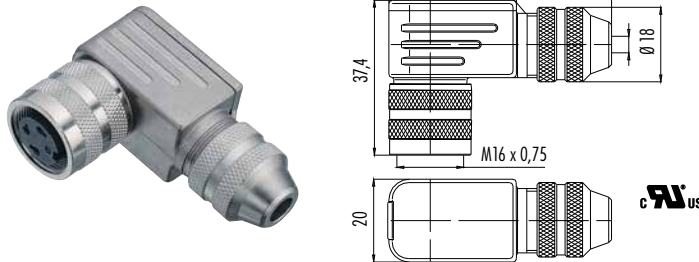
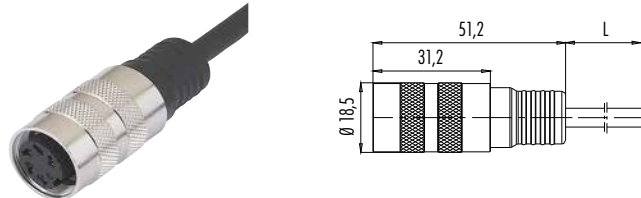
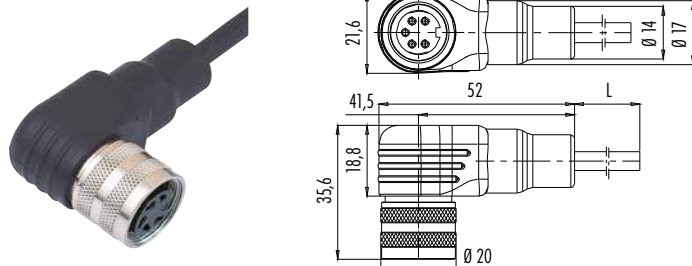
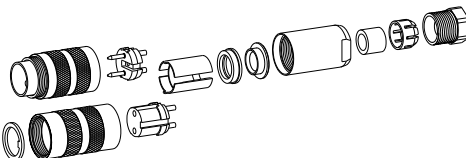
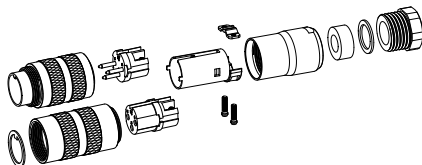
Crimp contacts see page 63

Female cable connector with cable clamp, screw clamp connection/crimp connection, shieldable		3 DIN	6–8 mm	99 5606 210 03	–
		4		99 5610 210 04	99 5610 700 04
		5		99 5614 210 05	99 5614 700 05
		6 DIN		–	99 5622 700 06
		7		–	99 5626 700 07
		8 DIN		–	99 5672 700 08

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, short version, solder termination		3 DIN	4–8 mm	99 5106 40 03
		4		99 5110 40 04
		5		99 5114 40 05
		6 DIN		99 5122 40 06
		7		99 5126 40 07
		8 DIN		99 5172 40 08
		12		99 5130 40 12
		19		99 5462 40 19

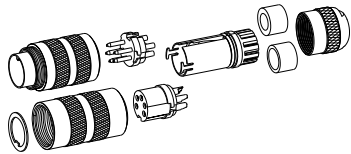
Female cable connector, short version, crimp connection		4	4–8 mm	99 5110 740 04
		5		99 5114 740 05
		6 DIN		99 5122 740 06
		7		99 5126 740 07
		8 DIN		99 5172 740 08

Crimp contacts see page 63

Description	Drawing	Contacts	Cable outlet 4–6 mm	Cable outlet 6–8 mm	
Female angled connector, shieldable		3 DIN 4 5 6 DIN 7 8 DIN 12 19	99 5106 75 03 99 5110 75 04 99 5114 75 05 99 5122 75 06 99 5126 75 07 99 5172 75 08 99 5130 75 12 99 5462 75 19	99 5606 75 03 99 5610 75 04 99 5614 75 05 99 5622 75 06 99 5626 75 07 99 5672 75 08 99 5630 75 12 99 5662 75 19	
Female angled connector, crimp connection, shieldable		4 5 6 DIN 7 8 DIN	99 5110 750 04 99 5114 750 05 99 5122 750 06 99 5126 750 07 99 5172 750 08	99 5610 750 04 99 5614 750 05 99 5622 750 06 99 5626 750 07 99 5672 750 08	
Crimp contacts see page 63		Contacts	Cable length, PUR	UnshieldedShielded	
Female cable connector, moulded		5 x 0,25 6 DIN x 0,25 8 DIN x 0,25 12 x 0,25	2 m	79 6014 20 05 – 79 6072 20 08 79 6030 20 12	79 6114 20 05 79 6118 20 06 79 6172 20 08 79 6130 20 12
Female angled connector, moulded		5 x 0,25 6 DIN x 0,25 8 DIN x 0,25 12 x 0,25	2 m	79 6214 200 05 – 79 6272 200 08 79 6230 200 12	79 6314 200 05 79 6318 200 06 79 6372 200 08 79 6330 200 12
Component part drawing					
Cable connectors, solder termination, with shielding ring		Male ring nut/ Female ring nut with seal Female insert/ Male insert Distance sleeve Shielding ring Shield clamping ring Sleeve Seal Pinch ring Pressing screw	Cable connectors, solder termination, with cable clamp	Male ring nut/ Female ring nut with seal Female insert/ Male insert Cable clamp Sleeve Seal Thrust collar Pressing screw	
Cable connectors with screw clamp connection		Male ring nut/ Female ring nut with seal Female insert/ Male insert Cable clamp Sleeve Seal Thrust collar Pressing screw	Cable connectors with crimp connection	Male ring nut/ Female ring nut Female insert/ Male insert Female contact/ Male contact Cable clamp Sleeve Seal Thrust collar Pressing screw	

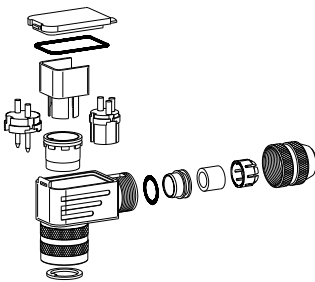
Component part drawing

Cable connectors, short version



Male ring nut/
Female ring nut with seal
Female insert/
Male insert
Cable clamp
Seal 4–6 mm/6–8 mm
Pressing screw

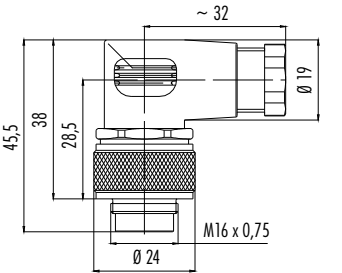
Angled connectors



Male ring nut and housing/
Female ring nut and housing with seal
Positioning sleeve with O-ring 12,5 x 1,1
Female insert/
Male insert
Distance sleeve, Shaped seal, Cover
O-ring 9 x 1,5
Shielding ring, Seal
Pinch ring, Pressing screw
Cable outlet adjustable in 4 positions

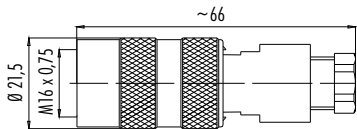
Description	Drawing	Contacts	Cable outlet 4–6 mm	Cable outlet 6–8 mm
Male cable connector, solder termination		3 DIN	09 0105 25 03	09 0105 70 03
		4	09 0109 25 04	09 0109 70 04
		5	09 0113 25 05	09 0113 70 05
		6 DIN	09 0121 25 06	09 0121 70 06
		7	09 0125 25 07	09 0125 70 07
		8 DIN	09 0171 25 08	09 0171 70 08
		12	09 0129 25 12	09 0129 70 12
		19	09 0461 25 19	09 0461 70 19

Male angled connector, solder termination



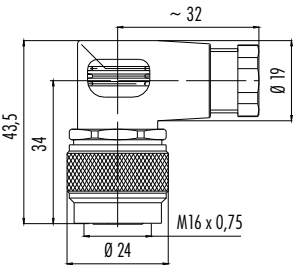
3 DIN	99 0105 106 03	99 0105 75 03
4	99 0109 106 04	99 0109 75 04
5	99 0113 106 05	99 0113 75 05
6 DIN	99 0121 106 06	99 0121 75 06
7	99 0125 106 07	99 0125 75 07
8 DIN	99 0171 106 08	99 0171 75 08
12	99 0129 106 12	99 0129 75 12
19	99 0461 106 19	99 0461 75 19

Female cable connector, solder termination



3 DIN	09 0106 25 03	09 0106 70 03
4	09 0110 25 04	09 0110 70 04
5	09 0114 25 05	09 0114 70 05
6 DIN	09 0122 25 06	09 0122 70 06
7	09 0126 25 07	09 0126 70 07
8 DIN	09 0172 25 08	09 0172 70 08
12	09 0130 25 12	09 0130 70 12
19	09 0462 25 19	09 0462 70 19

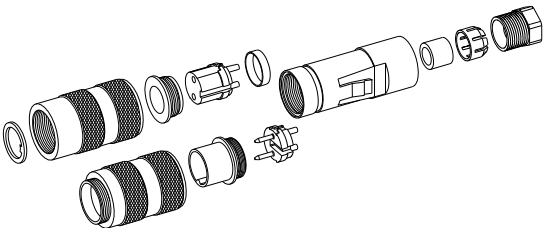
Female angled connector, solder termination



3 DIN	99 0106 106 03	99 0106 75 03
4	99 0110 106 04	99 0110 75 04
5	99 0114 106 05	99 0114 75 05
6 DIN	99 0122 106 06	99 0122 75 06
7	99 0126 106 07	99 0126 75 07
8 DIN	99 0172 106 08	99 0172 75 08
12	99 0130 106 12	99 0130 75 12
19	99 0462 106 19	99 0462 75 19

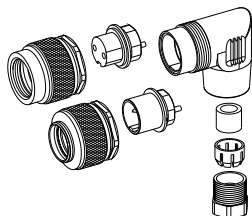
Component part drawing

Cable connectors

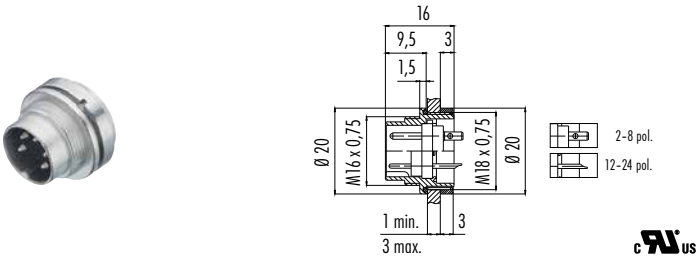
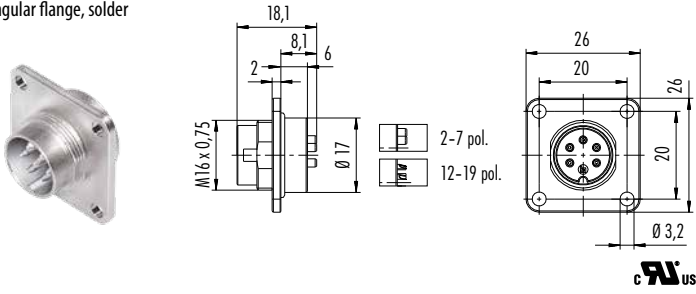
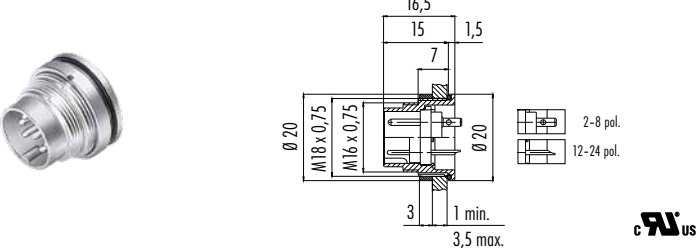
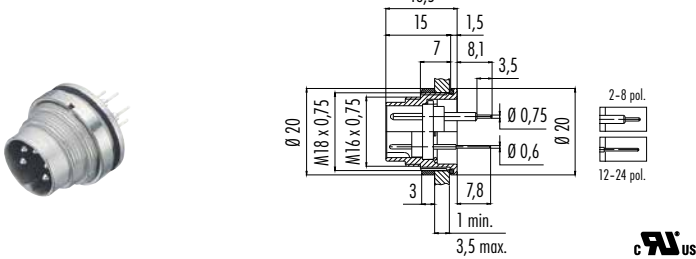
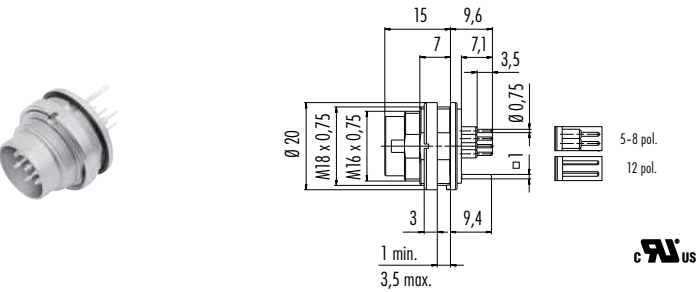
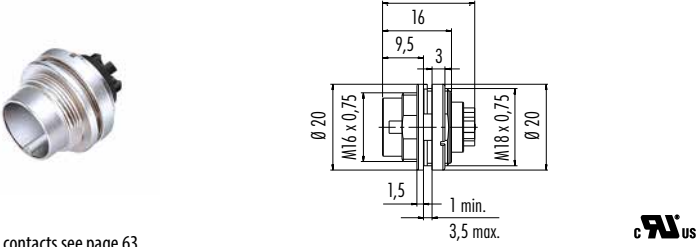


Male ring nut/
Female ring nut with seal
Female insert assembled/
Male insert assembled
Housing
Seal
Pinch ring
Pressing screw

Angled connectors



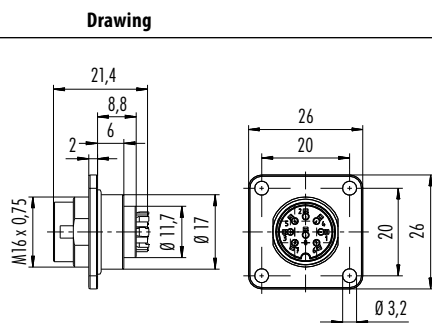
Male ring nut/
Female ring nut
Female insert/
Male insert
Angled housing
Seal
Pinch ring
Pressing screw
Cable outlet adjustable
in 4 positions

Description	Drawing	Contacts	Ordering-No.
Male panel mount connector, solder		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0107 00 03 09 0111 00 04 09 0115 00 05 09 0123 00 06 09 0127 00 07 09 0173 00 08 09 0131 00 12 09 0463 00 19
Male panel mount connector, rectangular flange, solder		2 3 DIN 4 5 6 DIN 7 8 DIN 12 14 16 19	09 0103 300 02 09 0107 300 03 09 0111 300 04 09 0115 300 05 09 0123 300 06 09 0127 300 07 09 0173 300 08 09 0131 300 12 09 0453 300 14 09 0507 300 16 09 0463 300 19
Male panel mount connector, solder, front fastened		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0107 80 03 09 0111 80 04 09 0115 80 05 09 0123 80 06 09 0127 80 07 09 0173 80 08 09 0131 80 12 09 0463 80 19
Male panel mount connector, dip-solder, front fastened		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0107 90 03 09 0111 90 04 09 0115 90 05 09 0123 90 06 09 0127 90 07 09 0173 90 08 09 0131 90 12 09 0463 90 19
Male panel mount connector, dip-solder, front fastened, with shield connection		5 6 DIN 8 DIN 12 19	09 0115 290 05 09 0123 290 06 09 0173 290 08 09 0131 290 12 09 0463 290 19
Male panel mount connector, crimp		4 5 6 DIN 7 8 DIN	09 0111 700 04 09 0115 700 05 09 0123 700 06 09 0127 700 07 09 0173 700 08

Crimp contacts see page 63

Description

Male panel mount connector,
rectangular flange, crimp



Contacts

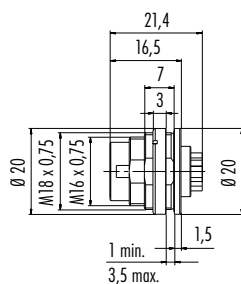
Ordering-No.

4	09 0111 370 04
5	09 0115 370 05
6 DIN	09 0123 370 06
7	09 0127 370 07
8 DIN	09 0173 370 08

Crimp contacts see page 63



Male panel mount connector, crimp, front fastened

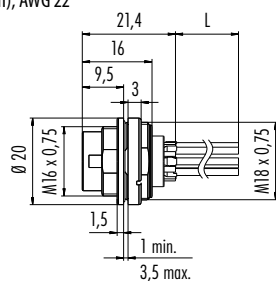


4	09 0111 780 04
5	09 0115 780 05
6 DIN	09 0123 780 06
7	09 0127 780 07
8 DIN	09 0173 780 08

Crimp contacts see page 63



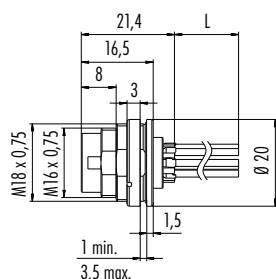
Male panel mount connector, with single wires (200 mm), AWG 22



4	09 0111 702 04
5	09 0115 702 05
6 DIN	09 0123 702 06
7	09 0127 702 07
8 DIN	09 0173 702 08



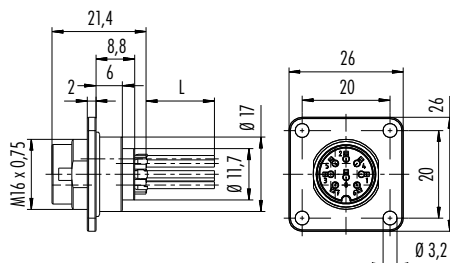
Male panel mount connector, front fastened,
with single wires (200 mm), AWG 22



4	09 0111 782 04
5	09 0115 782 05
6 DIN	09 0123 782 06
7	09 0127 782 07
8 DIN	09 0173 782 08



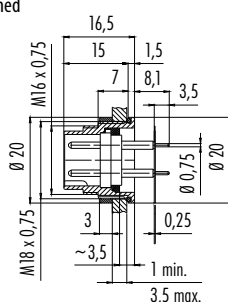
Male panel mount connector, rectangular flange,
with single wires (200 mm), AWG 22



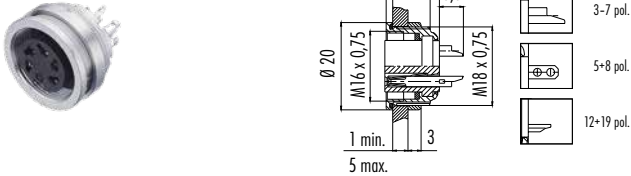
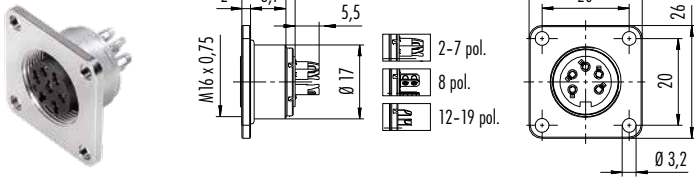
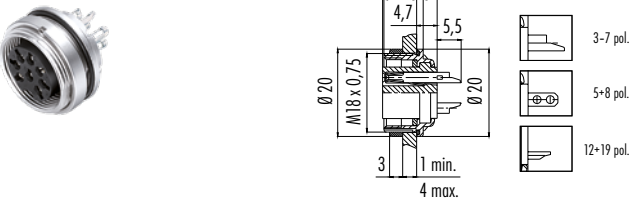
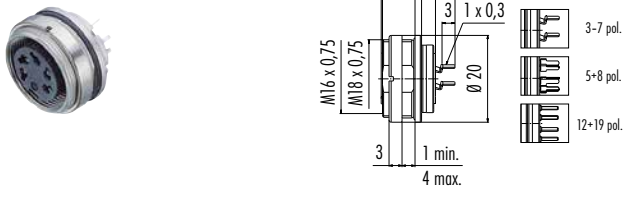
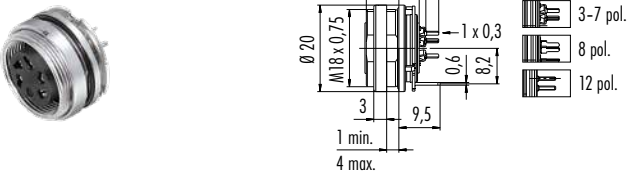
4	09 0111 320 04
5	09 0115 320 05
6 DIN	09 0123 320 06
7	09 0127 320 07
8 DIN	09 0173 320 08



Male panel mount connector with flexible PCB, front fastened

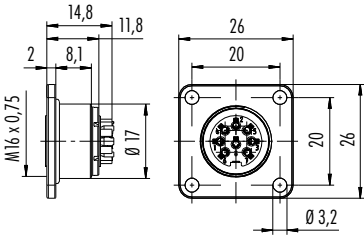
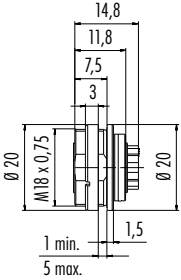
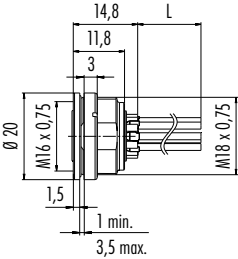
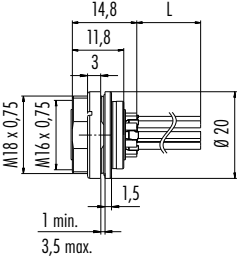
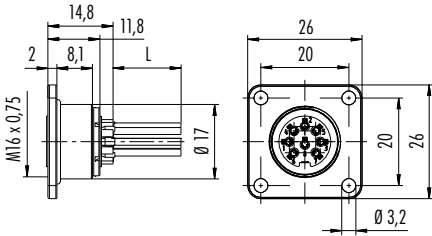
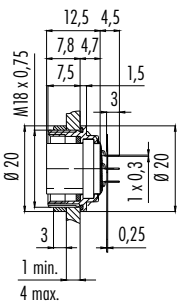


7	09 0127 65 07
8 DIN	09 0173 65 08
12	09 0131 65 12 single-row
	09 0131 66 12 double-row

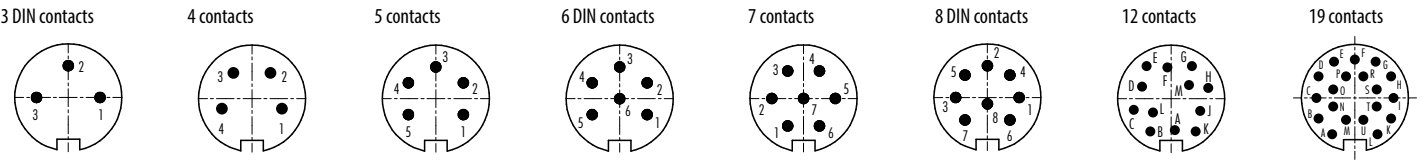
Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, solder		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0108 00 03 09 0112 00 04 09 0116 00 05 09 0124 00 06 09 0128 00 07 09 0174 00 08 09 0132 00 12 09 0464 00 19
Female panel mount connector, rectangular flange, solder		2 3 DIN 4 5 6 DIN 7 8 DIN 12 14 16 19	09 0104 300 02 09 0108 300 03 09 0112 300 04 09 0116 300 05 09 0124 300 06 09 0128 300 07 09 0174 300 08 09 0132 300 12 09 0454 300 14 09 0508 300 16 09 0464 300 19
Female panel mount connector, solder, front fastened		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0108 80 03 09 0112 80 04 09 0116 80 05 09 0124 80 06 09 0128 80 07 09 0174 80 08 09 0132 80 12 09 0464 80 19
Female panel mount connector, dip-solder, front fastened		3 DIN 4 5 6 DIN 7 8 DIN 12 19	09 0108 90 03 09 0112 90 04 09 0116 90 05 09 0124 90 06 09 0128 90 07 09 0174 90 08 09 0132 90 12 09 0464 90 19
Female panel mount connector, dip-solder, front fastened, with shield connection		3 4 5 6 DIN 7 8 DIN 12	09 0108 290 03 09 0112 290 04 09 0116 290 05 09 0124 290 06 09 0128 290 07 09 0174 290 08 09 0132 290 12
Female panel mount connector, crimp		4 5 6 DIN 7 8 DIN	09 0112 700 04 09 0116 700 05 09 0124 700 06 09 0128 700 07 09 0174 700 08

NEW

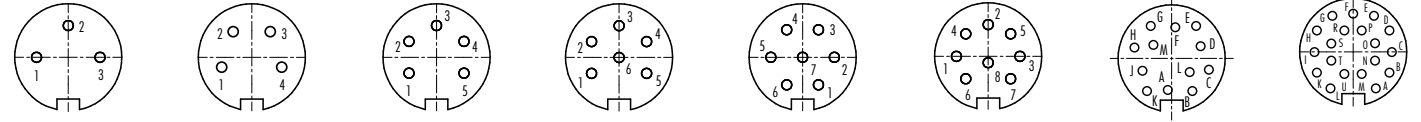
Crimp contacts see page 63

Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, rectangular flange, crimp		4 5 6 DIN 7 8 DIN	09 0112 370 04 09 0116 370 05 09 0124 370 06 09 0128 370 07 09 0174 370 08
Female panel mount connector, crimp, front fastened		4 5 6 DIN 7 8 DIN	09 0112 780 04 09 0116 780 05 09 0124 780 06 09 0128 780 07 09 0174 780 08
Female panel mount connector, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0112 702 04 09 0116 702 05 09 0124 702 06 09 0128 702 07 09 0174 702 08
Female panel mount connector, front fastened, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0112 782 04 09 0116 782 05 09 0124 782 06 09 0128 782 07 09 0174 782 08
Female panel mount connector, rectangular flange, with single wires (200 mm), AWG 22		4 5 6 DIN 7 8 DIN	09 0112 320 04 09 0116 320 05 09 0124 320 06 09 0128 320 07 09 0174 320 08
Female panel mount connector with flexible PCB, front fastened		7 8 DIN 12	09 0128 65 07 09 0174 65 08 09 0132 65 12 single-row 09 0132 66 12 double-row

Contact arrangements male insert (mating side)



Contact arrangements female insert (mating side)



Panel cut out		Colour of wires of moulded cable connectors				Colour of wires of panel mount connectors			
		5 contacts	6 contacts	8 contacts	12 contacts	4-8 contacts	1 white	2 brown	3 green
		1 white	1 red	1 white	A white	J black	4 yellow	5 grey	6 pink
		2 brown	2 black	2 brown	B brown	K purple	7 blue	8 red	
		3 blue	3 yellow	3 green	C green	L grey/pink			
		4 black	4 blue	4 yellow	D yellow	M red/blue			
		5 grey	5 white	5 grey	E grey				
			6 green	6 pink	F pink				
				7 blue	G blue				
				8 red	H red				

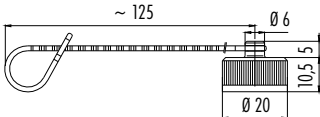
Description	Drawing
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Single contact (Male), PU 50 pieces

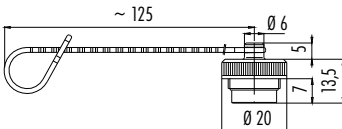
Single contact (Female), PU 50 pieces

Strip contact (Male)		Contact-Ø	Insulating-Ø	Wire gauge	PU	Pieces	Silver	Gold
		1,5 mm	1,0-2,0 mm	0,14-0,25 mm²	Single	50	61 0799 085 00	61 0799 098 00
					Strip	200	65 0799 085 01	65 0799 098 01
					Strip	2.000	65 0799 085 02	65 0799 098 02
					Strip	4.000	65 0799 085 04	65 0799 098 04
				0,35-0,5 mm²	Single	50	61 0795 085 00	61 0795 098 00
					Strip	200	65 0795 085 01	65 0795 098 01
					Strip	2.000	65 0795 085 02	65 0795 098 02
					Strip	4.000	65 0795 085 04	65 0795 098 04
			1,6-2,1 mm	0,75-1,0 mm²	Single	50	61 0796 085 00	61 0796 098 00
					Strip	200	65 0796 085 01	65 0796 098 01
					Strip	2.000	65 0796 085 02	65 0796 098 02
					Strip	4.000	65 0796 085 04	65 0796 098 04
				0,14-0,25 mm²	Single	50	61 0800 085 00	61 0800 098 00
					Strip	200	65 0800 085 01	65 0800 098 01
					Strip	2.000	65 0800 085 02	65 0800 098 02
					Strip	4.000	65 0800 085 04	65 0800 098 04
Strip contact (Female)		1,5 mm	1,0-2,0 mm	0,14-0,25 mm²	Single	50	61 0797 085 00	61 0797 098 00
					Strip	200	65 0797 085 01	65 0797 098 01
					Strip	2.000	65 0797 085 02	65 0797 098 02
					Strip	4.000	65 0797 085 04	65 0797 098 04
				0,35-0,5 mm²	Single	50	61 0798 085 00	61 0798 098 00
					Strip	200	65 0798 085 01	65 0798 098 01
					Strip	2.000	65 0798 085 02	65 0798 098 02
					Strip	4.000	65 0798 085 04	65 0798 098 04
			1,6-2,1 mm	0,75-1,0 mm²	Single	50	61 0798 085 00	61 0798 098 00
					Strip	200	65 0798 085 01	65 0798 098 01
					Strip	2.000	65 0798 085 02	65 0798 098 02
					Strip	4.000	65 0798 085 04	65 0798 098 04
				0,14-0,25 mm²	Single	50	61 0799 085 00	61 0799 098 00
					Strip	200	65 0799 085 01	65 0799 098 01
					Strip	2.000	65 0799 085 02	65 0799 098 02
					Strip	4.000	65 0799 085 04	65 0799 098 04

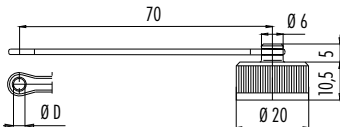
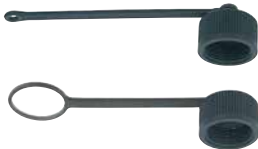
Description	Drawing	Ordering-No.
Protection cap for male cable connectors		08 1077 000 000



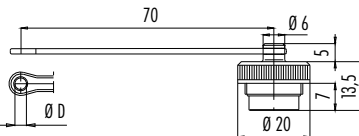
Protection cap for female cable connectors		08 1078 000 000
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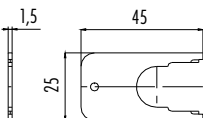
Protection cap for male panel mount connectors	Hole-Ø D	Ordering-No.
	3 mm	08 1079 000 000
	18 mm	08 2670 000 000



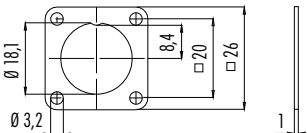
Protection cap for female panel mount connectors		Ordering-No.
	3 mm	08 1080 000 000
	18 mm	08 2671 000 000



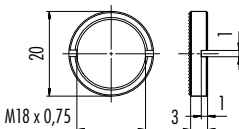
Mounting spanner for panel mount connectors	Ordering-No.
	07 0010 001

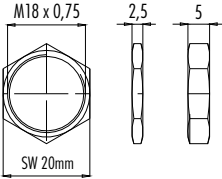
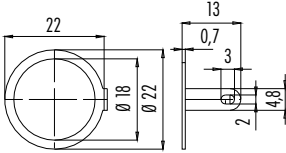
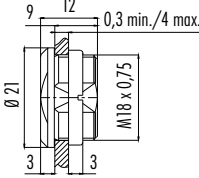
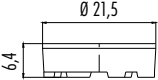
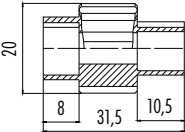


Rectangular flange for panel mount connectors	08 0045 000 001
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Ring nut for fixing thread	01 0010 001 with knurled screw
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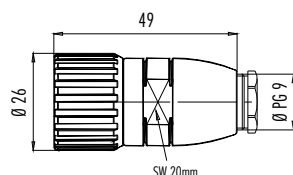
Description	Drawing		Thickness	Ordering-No.
Hexagonal nut	 		2,5 mm	01 0146 001
			5 mm	01 5006 001
Solder eye ring	 		Ordering-No. 04 0186 009	
Blind plug	 		08 2668 000 001	
Distance sleeve for panel mount connectors, dip-solder version	  PCB thickness: max. 1,5 mm		02 0007 000	
Mounting spanner for straight, shieldable cable connectors	 		02 1785 000	
Crimping tool for single contacts	 		66 0001 014 100	
			67 0001 014 100	
Extraction tool for crimp contacts			07 0090 000	



- Screw termination M23
- 6 – 19 contacts
- Degree of protection IP67
- Solder termination
- Diameter 26 mm
- Shieldable versions
- Clockwise thread

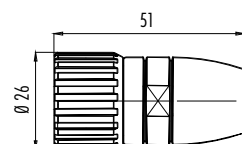
Description**Drawing****Contacts****Cable outlet****Ordering-No.**

Male cable connector



6	6–10 mm	99 4635 00 06
9		99 4601 00 09
12		99 4605 00 12
16		99 4609 00 16
19		99 4631 00 19

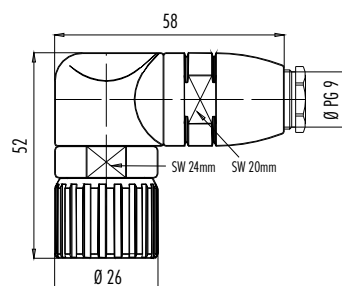
Male cable connector, shieldable



6	6–10 mm	99 4645 00 06
9		99 4619 00 09
12		99 4621 00 12
16		99 4623 00 16
19		99 4643 00 19

Earth sleeves with seals have to be ordered separately. See page 70.

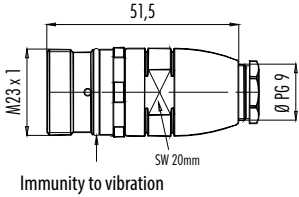
Male angled connector

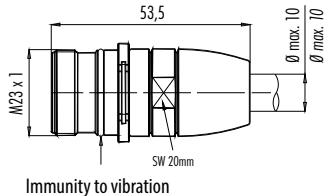


6	6–10 mm	99 4635 70 06
9		99 4601 70 09
12		99 4605 70 12
16		99 4609 70 16
19		99 4631 70 19

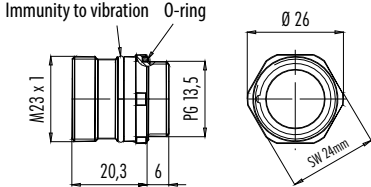
Specifications

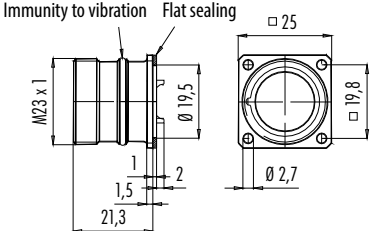
Contacts	6	9	12	16	19
Wire gauge	2,5 mm² (AWG 14)	8x1,5 mm² (AWG 16)/ 1x2,5 mm² (AWG 14)	1,0 mm² (AWG 18)		16x1 mm² (AWG 18)/ 3x1,5 mm² (AWG 16)
Mechanical operation	> 50 Mating cycles				
Temperature range	– 20 °C /+ 125 °C				
Rated voltage	300 V		150 V		
Pollution degree	3				
Rated current (40°C)	20 A	8 x 8 A/1 x 20 A	8 A		16 x 8 A/3 x 10 A
Contact plating	Au (Gold)				
Material of housing	CuZn (brass nickel plated)				

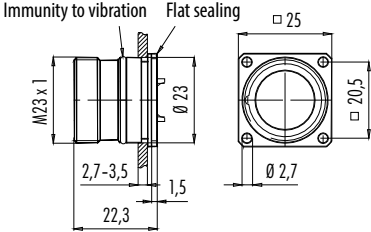
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male coupling connector	  Immunity to vibration	6	6–10 mm	99 4641 00 06
		9		99 4613 00 09
		12		99 4615 00 12
		16		99 4617 00 16
		19		99 4639 00 19

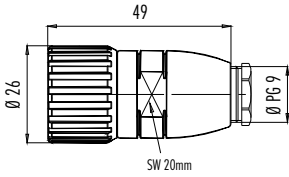
Male coupling connector, shieldable	  Immunity to vibration	6	6–10 mm	99 4649 00 06
		9		99 4625 00 09
		12		99 4627 00 12
		16		99 4629 00 16
		19		99 4647 00 19

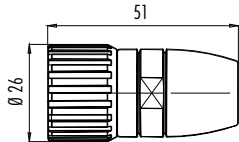
Earth sleeves with seals have to be ordered separately. See page 70.

Male panel mount connector, central locking, PG 13,5	  Immunity to vibration O-ring	6	–	99 4637 20 06
		9		99 4603 20 09
		12		99 4607 20 12
		16		99 4611 20 16
		19		99 4633 20 19

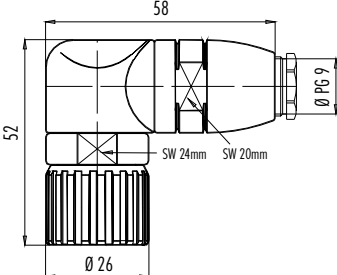
Male panel mount connector, front fastened	  Immunity to vibration Flat sealing	6	–	99 4637 00 06
		9		99 4603 00 09
		12		99 4607 00 12
		16		99 4611 00 16
		19		99 4633 00 19

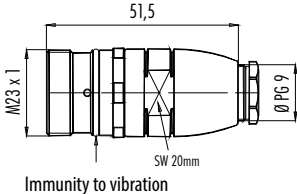
Male panel mount connector, fastened from back side	  Immunity to vibration Flat sealing	6	–	99 4637 80 06
		9		99 4603 80 09
		12		99 4607 80 12
		16		99 4611 80 16
		19		99 4633 80 19

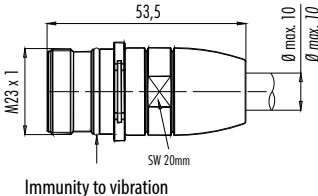
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector	 	6	6–10 mm	99 4636 00 06
		9		99 4602 00 09
		12		99 4606 00 12
		16		99 4610 00 16
		19		99 4632 00 19

Female cable connector, shieldable	 	6	6–10 mm	99 4646 00 06
		9		99 4620 00 09
		12		99 4622 00 12
		16		99 4624 00 16
		19		99 4644 00 19

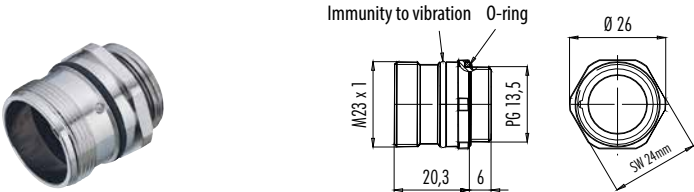
Earth sleeves with seals have to be ordered separately. See page 70.

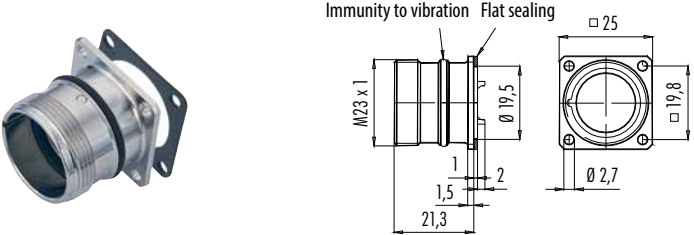
Female angled connector	 	6	6–10 mm	99 4636 70 06
		9		99 4602 70 09
		12		99 4606 70 12
		16		99 4610 70 16
		19		99 4632 70 19

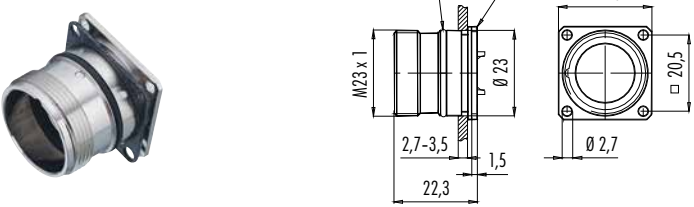
Female coupling connector	 	6	6–10 mm	99 4642 00 06
		9		99 4614 00 09
		12		99 4616 00 12
		16		99 4618 00 16
		19		99 4640 00 19

Female coupling connector, shieldable	 	6	6–10 mm	99 4650 00 06
		9		99 4626 00 09
		12		99 4628 00 12
		16		99 4630 00 16
		19		99 4648 00 19

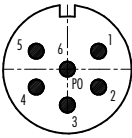
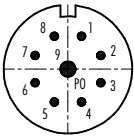
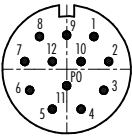
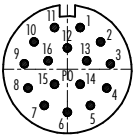
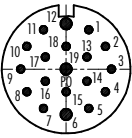
Earth sleeves with seals have to be ordered separately. See page 70.

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female panel mount connector, central locking, PG 13,5		6 9 12 16 19	6–10 mm	99 4638 20 06 99 4604 20 09 99 4608 20 12 99 4612 20 16 99 4634 20 19

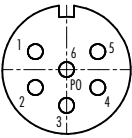
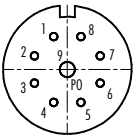
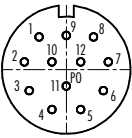
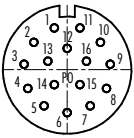
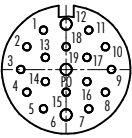
Female panel mount connector, front fastened		6 9 12 16 19	–	99 4638 00 06 99 4604 00 09 99 4608 00 12 99 4612 00 16 99 4634 00 19
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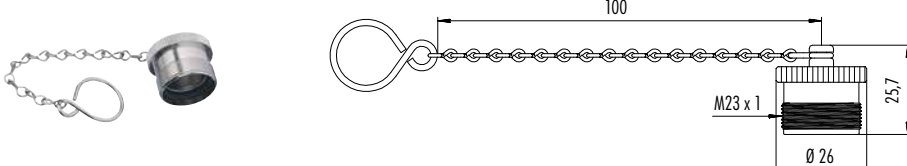
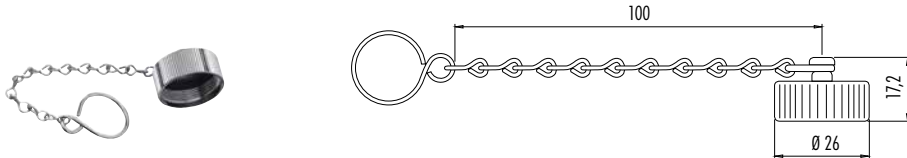
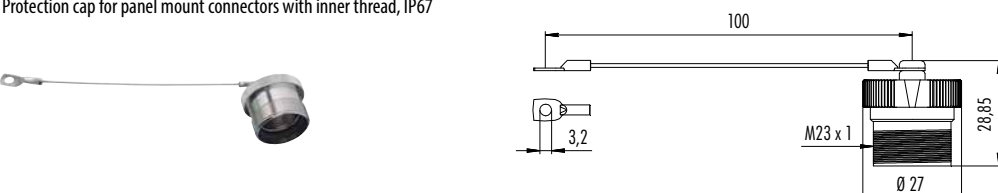
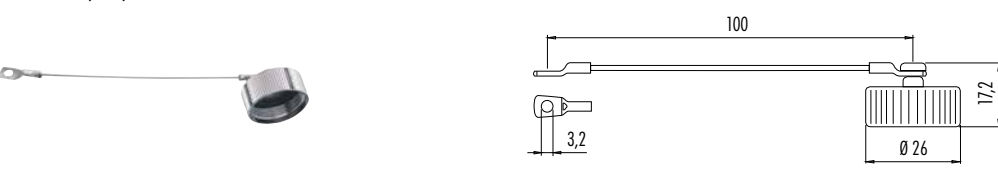
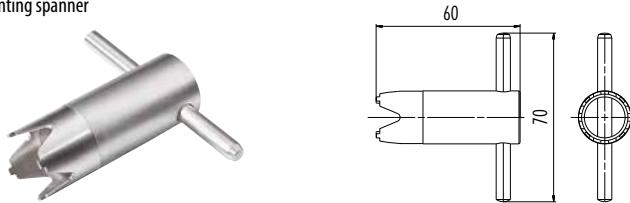
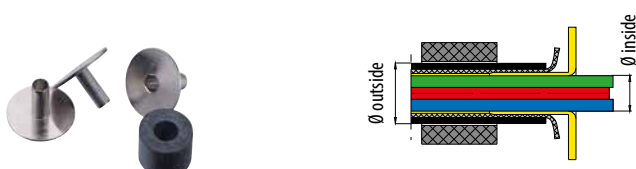
Female panel mount connector, fastened from back side		6 9 12 16 19	–	99 4638 80 06 99 4604 80 09 99 4608 80 12 99 4612 80 16 99 4634 80 19
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Contact arrangements male insert (mating side)

6 contacts	9 contacts	12 contacts	16 contacts	19 contacts
				

Contact arrangements female insert (mating side)

				
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Description	Drawing	Ordering-No.																																																																														
Protection cap for cable connectors, IP67		08 1201 001 001																																																																														
Protection cap for coupling connectors, IP67		08 1202 000 000																																																																														
Protection cap for panel mount connectors with inner thread, IP67		08 1201 000 000																																																																														
Protection cap for panel mount connectors with outer thread, IP67		08 1202 001 001																																																																														
Protection cap for cable connectors, IP40		08 1203 000 000																																																																														
Protection cap for coupling and panel mount connectors, IP40		08 1204 000 000																																																																														
Mounting spanner		08 1205 000 000																																																																														
Earth sleeve with seal		<table><tr><th colspan="3">Cable-Ø in mm</th><th colspan="3">Cable-Ø in mm</th></tr><tr><th>inside</th><th>outside</th><th>Ordering-No.</th><th>inside</th><th>outside</th><th>Ordering-No.</th></tr><tr><td>2,5</td><td>4,0</td><td>08 1200 040 025</td><td>4,6</td><td>8,5</td><td>08 1200 085 046</td></tr><tr><td>2,5</td><td>5,0</td><td>08 1200 050 025</td><td>5,2</td><td>7,5</td><td>08 1200 075 052</td></tr><tr><td>3,2</td><td>5,0</td><td>08 1200 050 032</td><td>5,2</td><td>8,5</td><td>08 1200 085 052</td></tr><tr><td>3,2</td><td>6,0</td><td>08 1200 060 032</td><td>5,2</td><td>10,0</td><td>08 1200 100 052</td></tr><tr><td>3,6</td><td>6,0</td><td>08 1200 060 036</td><td>5,5</td><td>7,5</td><td>08 1200 075 055</td></tr><tr><td>3,6</td><td>7,5</td><td>08 1200 075 036</td><td>5,5</td><td>8,5</td><td>08 1200 085 055</td></tr><tr><td>3,8</td><td>6,0</td><td>08 1200 060 038</td><td>5,5</td><td>10,0</td><td>08 1200 100 055</td></tr><tr><td>3,8</td><td>7,5</td><td>08 1200 075 038</td><td>6,2</td><td>10,0</td><td>08 1200 100 062</td></tr><tr><td>4,1</td><td>6,0</td><td>08 1200 060 041</td><td>6,6</td><td>10,0</td><td>08 1200 100 066</td></tr><tr><td>4,1</td><td>7,5</td><td>08 1200 075 041</td><td>7,0</td><td>10,0</td><td>08 1200 100 070</td></tr><tr><td>4,6</td><td>7,5</td><td>08 1200 075 046</td><td>7,4</td><td>10,0</td><td>08 1200 100 074</td></tr></table>	Cable-Ø in mm			Cable-Ø in mm			inside	outside	Ordering-No.	inside	outside	Ordering-No.	2,5	4,0	08 1200 040 025	4,6	8,5	08 1200 085 046	2,5	5,0	08 1200 050 025	5,2	7,5	08 1200 075 052	3,2	5,0	08 1200 050 032	5,2	8,5	08 1200 085 052	3,2	6,0	08 1200 060 032	5,2	10,0	08 1200 100 052	3,6	6,0	08 1200 060 036	5,5	7,5	08 1200 075 055	3,6	7,5	08 1200 075 036	5,5	8,5	08 1200 085 055	3,8	6,0	08 1200 060 038	5,5	10,0	08 1200 100 055	3,8	7,5	08 1200 075 038	6,2	10,0	08 1200 100 062	4,1	6,0	08 1200 060 041	6,6	10,0	08 1200 100 066	4,1	7,5	08 1200 075 041	7,0	10,0	08 1200 100 070	4,6	7,5	08 1200 075 046	7,4	10,0	08 1200 100 074
Cable-Ø in mm			Cable-Ø in mm																																																																													
inside	outside	Ordering-No.	inside	outside	Ordering-No.																																																																											
2,5	4,0	08 1200 040 025	4,6	8,5	08 1200 085 046																																																																											
2,5	5,0	08 1200 050 025	5,2	7,5	08 1200 075 052																																																																											
3,2	5,0	08 1200 050 032	5,2	8,5	08 1200 085 052																																																																											
3,2	6,0	08 1200 060 032	5,2	10,0	08 1200 100 052																																																																											
3,6	6,0	08 1200 060 036	5,5	7,5	08 1200 075 055																																																																											
3,6	7,5	08 1200 075 036	5,5	8,5	08 1200 085 055																																																																											
3,8	6,0	08 1200 060 038	5,5	10,0	08 1200 100 055																																																																											
3,8	7,5	08 1200 075 038	6,2	10,0	08 1200 100 062																																																																											
4,1	6,0	08 1200 060 041	6,6	10,0	08 1200 100 066																																																																											
4,1	7,5	08 1200 075 041	7,0	10,0	08 1200 100 070																																																																											
4,6	7,5	08 1200 075 046	7,4	10,0	08 1200 100 074																																																																											

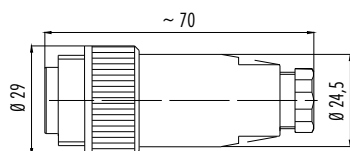




- Screw termination RD24
- 4- (3+PE) – 7- (6+PE) contacts
- Degree of protection IP67
- Solder-/Crimp-/Screw clamp termination
- Moulded versions
- Diameter 29 mm
- VDE-, SEV- and UL approval

Description**Drawing****Contacts****Termination****Cable outlet****Ordering-No.**

Male cable connector, PG 9



3+PE

screw clamp

6–9,5 mm

99 4221 00 04

solder

99 4225 00 07

6+PE

screw clamp

6–8 mm

99 4217 00 07

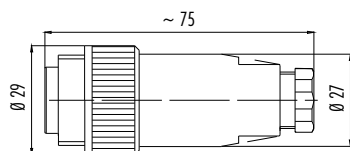
crimp

99 4201 00 07

Crimp contacts see page 78



Male cable connector, PG 11



3+PE

screw clamp

99 4221 110 04

solder

99 4225 110 07

6+PE

screw clamp

8–10 mm

99 4217 110 07

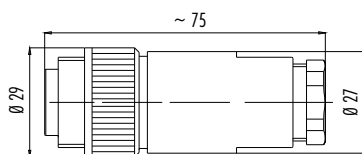
crimp

99 4201 110 07

Crimp contacts see page 78



Male cable connector, PG 13,5



3+PE

screw clamp

99 4221 14 04

solder

99 4225 14 07

6+PE

screw clamp

10–12 mm

99 4217 14 07

crimp

99 4201 14 07

Crimp contacts see page 78



Male cable connector, PG 16



3+PE

screw clamp

99 4221 160 04

solder

99 4225 160 07

6+PE

screw clamp

12–14 mm

99 4217 160 07

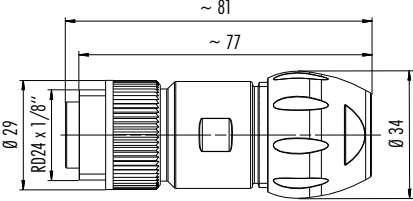
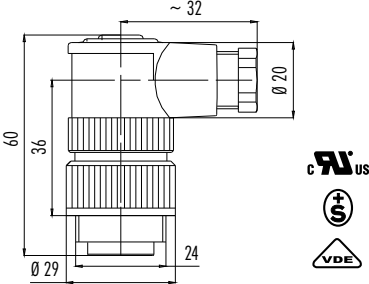
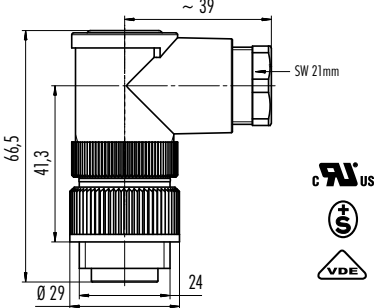
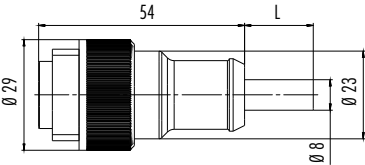
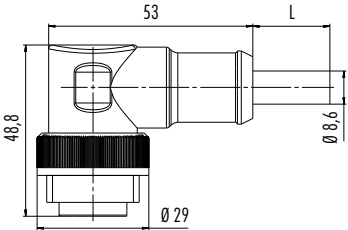
crimp

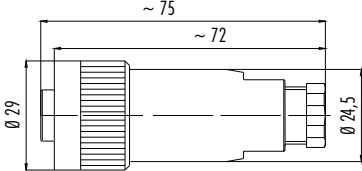
99 4201 160 07

Crimp contacts see page 78

**Specifications**

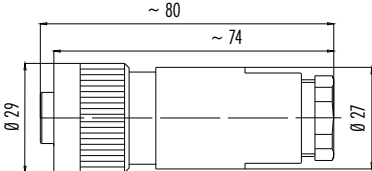
Contacts	3+PE (screw)	6+PE (solder)	6+PE (screw)	6+PE (crimp)
Wire gauge	0,5 mm ² –2,5 mm ² (AWG 20–AWG 14)	max.0,75 mm ² (max. AWG 20)	0,34 mm ² –1,5 mm ² (AWG 22–AWG 16)	0,14 mm ² –1,5 mm ² (AWG 26–AWG 16)
Mechanical operation	> 500 Mating cycles			
Temperature range	– 40 °C /+ 100 °C			
Rated voltage	400 V (600 V UL)	250 V		
Pollution degree	3			
Rated current (40°C)	16 A (12 A UL)	10 A (8 A UL)		
Contact plating	Ag (Silver)			
Material of housing	PBT			

Description	Drawing	Contacts	Termination	Cable outlet	Ordering-No.
Male cable connector, cable outlet 7–17 mm	  ~ 81 ~ 77 Ø 29 RD24 x 1/8" Ø 34	3+PE 6+PE	screw clamp solder screw clamp crimp	7–17 mm	99 4221 300 04 99 4225 300 07 99 4217 300 07 99 4201 300 07
NEW					
Male angled connector, PG 9	  ~ 32 60 36 Ø 20 24 Ø 29	3+PE 6+PE	screw clamp solder screw clamp crimp	6–8 mm	99 4221 70 04 99 4225 70 07 99 4217 70 07 99 4201 70 07
Male angled connector, PG 11	  ~ 39 66,5 41,3 SW 21mm 24 Ø 29	3+PE 6+PE	screw clamp solder screw clamp crimp	12–14 mm	99 4221 210 04 99 4225 210 07 99 4217 210 07 99 4201 210 07
Male angled connector, PG 13,5	 	3+PE 6+PE	screw clamp solder screw clamp crimp	12–14 mm	99 4221 215 04 99 4225 215 07 99 4217 215 07 99 4201 215 07
Male cable connector, moulded	  54 L Ø 29 Ø 23 Ø 8	3+PE x 1,5 6+PE x 0,75	2 m	–	79 0231 20 04 79 0235 20 07
Male angled connector, moulded	  53 L 48,8 Ø 29 Ø 8,6	3+PE x 1,5 6+PE x 0,75	2 m	–	79 0233 20 04 79 0237 20 07

Description	Drawing	Contacts	Termination	Cable outlet	Ordering-No.
Female cable connector, PG 9		3+PE	screw clamp	6–9,5 mm	99 4222 00 04
			solder		99 4226 00 07
		6+PE	screw clamp	6–8 mm	99 4218 00 07
			crimp		99 4202 00 07

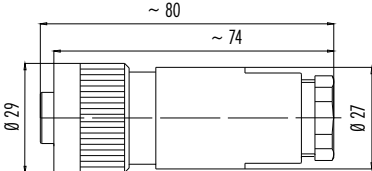
Crimp contacts see page 78



Female cable connector, PG 11		3+PE	screw clamp	8–10 mm	99 4222 110 04
			solder		99 4226 110 07
		6+PE	screw clamp	8–10 mm	99 4218 110 07
			crimp		99 4202 110 07

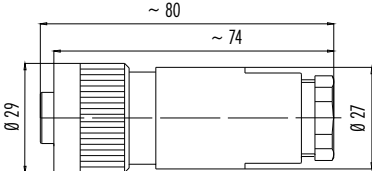
Crimp contacts see page 78



Female cable connector, PG 13,5		3+PE	screw clamp	10–12 mm	99 4222 14 04
			solder		99 4226 14 07
		6+PE	screw clamp	10–12 mm	99 4218 14 07
			crimp		99 4202 14 07

Crimp contacts see page 78



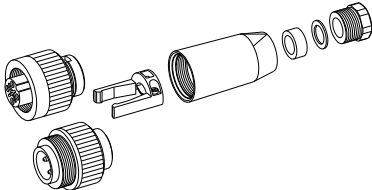
Female cable connector, PG 16		3+PE	screw clamp	12–14 mm	99 4222 160 04
			solder		99 4226 160 07
		6+PE	screw clamp	12–14 mm	99 4218 160 07
			crimp		99 4202 160 07

Crimp contacts see page 78



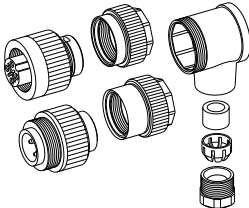
Component part drawing

Cable connectors with cable strain relief PG 9 version,
UL, VDE, SEV (screw 3+PE, solder)



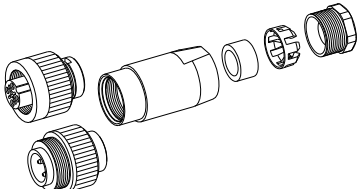
Female insert with ring nut/
Male insert with ring nut
Cable strain relief
Shell
Seal
Thrust collar
Pressing screw

Angled connectors



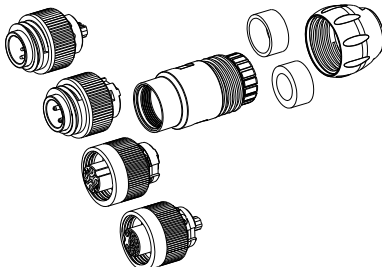
Female insert/
Male insert
Female angled sleeve/
Male angled sleeve
Angled hood
Seal
Pinch ring
Pressing screw

Cable connectors with pinch ring PG 11, PG 13,5, PG 16 version

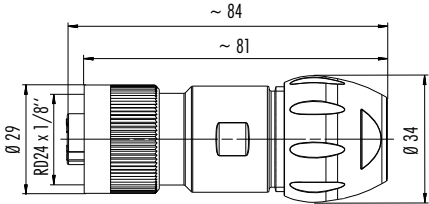


Female insert with ring nut/
Male insert with ring nut
Shell
Seal
Pinch ring
Pressing screw

Cable connectors, vario cable outlet



Male insert 3+PE/6+PE
Female insert 3+PE/6+PE
Sleeve
Seal 7-13 mm/12-17 mm
Pressing screw

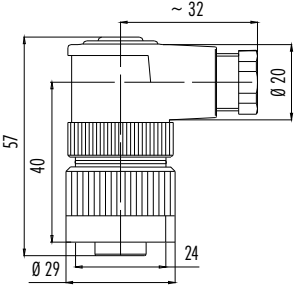
Description	Drawing	Contacts	Termination	Cable outlet	Ordering-No.
Female cable connector, cable outlet 7–17 mm		3+PE	screw clamp	7–17 mm	99 4222 300 04
			solder		99 4226 300 07
		6+PE	screw clamp		99 4218 300 07
			crimp		99 4202 300 07

NEW

Crimp contacts see page 78

Female angled connector, PG 9





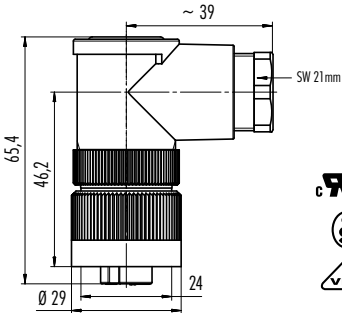


3+PE	screw clamp	6–8 mm	99 4222 70 04
	solder		99 4226 70 07
6+PE	screw clamp		99 4218 70 07
	crimp		99 4202 70 07

Crimp contacts see page 78

Female angled connector, PG 11





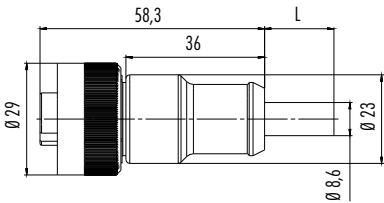


3+PE	screw clamp	12–14 mm	99 4222 210 04
	solder		99 4226 210 07
6+PE	screw clamp		99 4218 210 07
	crimp		99 4202 210 07

Crimp contacts see page 78

Female angled connector, PG 13,5





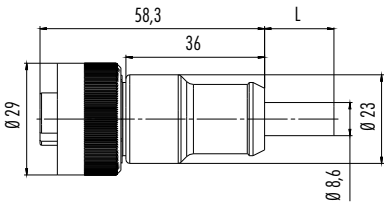


3+PE	screw clamp	12–14 mm	99 4222 215 04
	solder		99 4226 215 07
6+PE	screw clamp		99 4218 215 07
	crimp		99 4202 215 07

Crimp contacts see page 78

Female cable connector, moulded



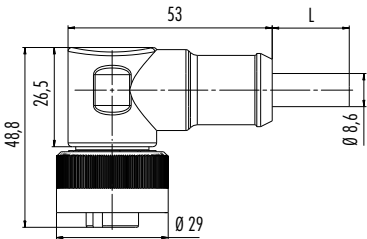




Contacts	Cable length, PVC	Cable outlet	Ordering-No.
3+PE x 1,5	2 m	–	79 0232 20 04
6+PE x 0,75			79 0236 20 07

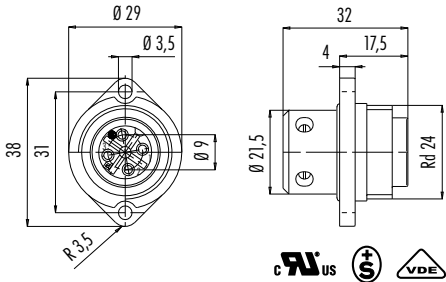
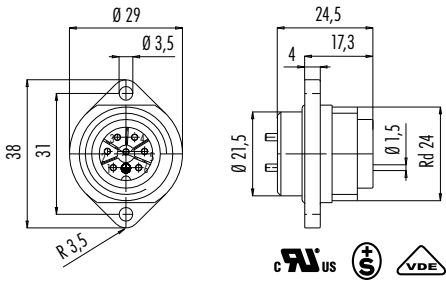
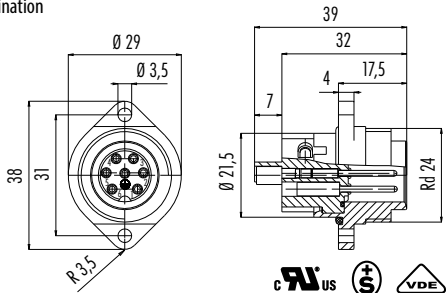
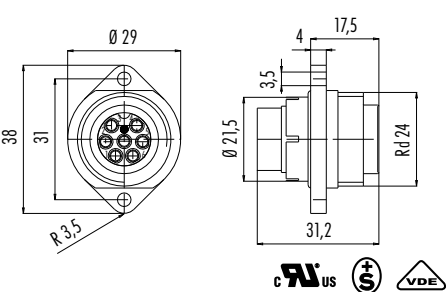
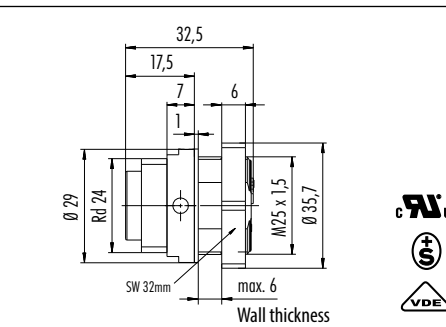
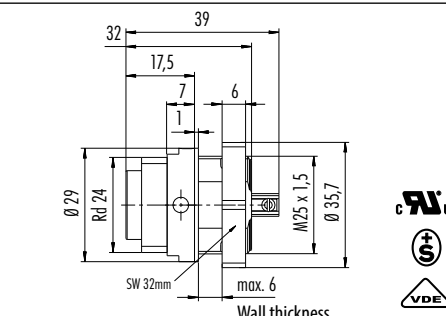
Female angled connector, moulded







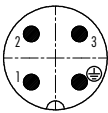
3+PE x 1,5	2 m	–	79 0234 20 04
6+PE x 0,75			79 0238 20 07

Description	Drawing	Contacts	Termination	Ordering-No.
Male panel mount connector 3+PE, screw clamp termination	 	3+PE	screw clamp	09 4223 00 04
Male panel mount connector 6+PE, solder termination	 	6+PE	solder	09 4227 00 07
Male panel mount connector 6+PE, screw clamp termination	 	6+PE	screw clamp	09 4219 00 07
Male panel mount connector 6+PE, crimp termination	 	6+PE	crimp	09 4203 00 07
Male panel mount connector 3+PE, central locking, screw clamp termination	 	3+PE	screw	09 4223 150 04
Male panel mount connector 6+PE, central locking, screw clamp termination	 	6+PE	screw	09 4219 150 07

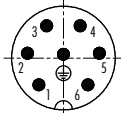
Description	Drawing	Contacts	Termination	Ordering-No.
Female panel mount connector 3+PE, screw clamp termination		3+PE	screw clamp	09 4224 00 04
Female panel mount connector 6+PE, solder termination		6+PE	solder	09 4228 00 07
Female panel mount connector 6+PE, screw clamp termination		6+PE	screw clamp	09 4220 00 07
Female panel mount connector 6+PE, crimp termination		6+PE	crimp	09 4204 00 07
Female panel mount connector 3+PE, central locking, screw clamp termination		3+PE	screw	09 4224 150 04
Female panel mount connector 6+PE, central locking, screw clamp termination		6+PE	screw	09 4220 150 07

Contact arrangements male insert (mating side)

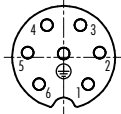
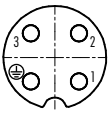
3+PE contacts



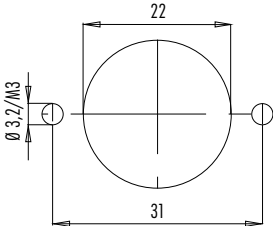
6+PE contacts



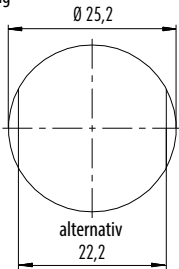
Contact arrangements female insert (mating side)



Panel cut out



Central locking



Colour of wire, moulded cable connectors

- 1

black 1
- 2

black 2
- 3

black 3
- ⊕

green/yellow
- 4

black 4
- 5

black 5
- 6

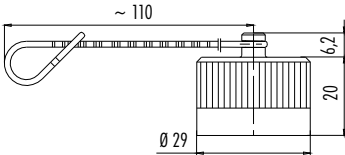
black 6
- ⊕

green/yellow

Description	Drawing	A	B	Wire gauge	AWG	Ordering-No.
Single contact (Male), Signal, PU 100 pieces		0,9	2,6	0,14–0,34 mm²	26–22	61 0891 139
		1,1	2,6	0,5 mm²	20	61 0892 139
		1,45	2,6	0,75–1,0 mm²	18	61 0893 139
		1,8	3,0	1,5 mm²	16	61 0894 139

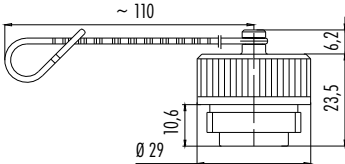
Single contact (Female), Signal, PU 100 pieces		0,9	2,6	0,14–0,34 mm²	26–22	61 0896 139
		1,1	2,6	0,5 mm²	20	61 0897 139
		1,45	2,6	0,75–1,0 mm²	18	61 0898 139
		1,8	3,0	1,5 mm²	16	61 0899 139

Protection cap for male cable connector, IP67



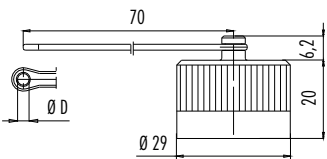
Ordering-No.
08 2299 000 000

Protection cap for female cable connector, IP67



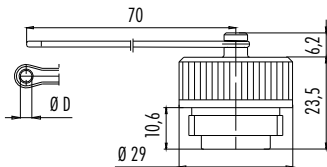
08 2300 000 000

Protection cap for male panel mount connector, IP67



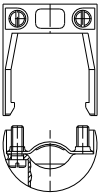
Hole-Ø D	Ordering-No.
3 mm	08 2301 000 000
21,5 mm	08 2672 000 000

Protection cap for female panel mount connector, IP67

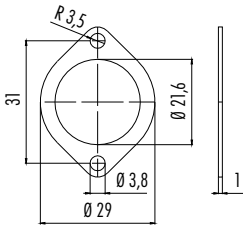


3 mm	08 2302 000 000
21,5 mm	08 2673 000 000

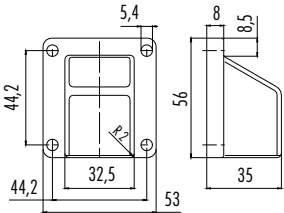
Description	Drawing	Ordering-No.
Strain relief		08 0628 000 008



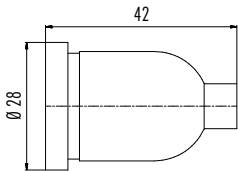
Flat seal for panel mount connectors		04 0722 000
--------------------------------------	--	-------------



Bulkhead housing		16 0566 00 00
------------------	--	---------------



Protection cap for panel mount connectors with screw termination, termination side		16 0565 00 00
--	--	---------------



Crimping tool for turned crimp contacts		66 0003 001
---	--	-------------



Extraction tool for turned crimp contacts		66 0004 001 signal contact
---	--	----------------------------





- Bayonet locking system
- 8 and 12 contacts
- Degree of protection IP68/IP69K
- Crimp termination
- Diameter 36 mm
- VDE-, UL-approval
- Designed for harsh environments

Description

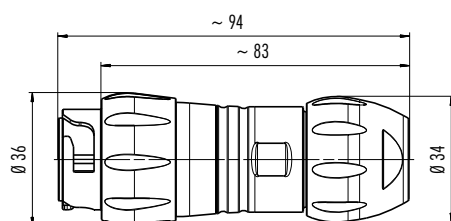
Male cable connector

Drawing

Contacts

Cable outlet

Ordering-No.



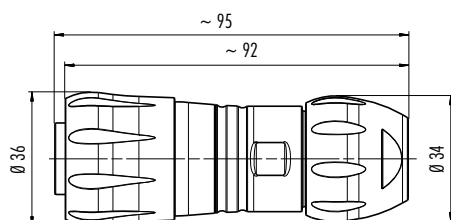
4+PE	7-17 mm	99 6489 000 05	UL in prep.
4 + 3+PE		99 6501 000 08	
12	7-13 mm	99 6517 000 12	

NEW

Crimp contacts see page 82



Female cable connector



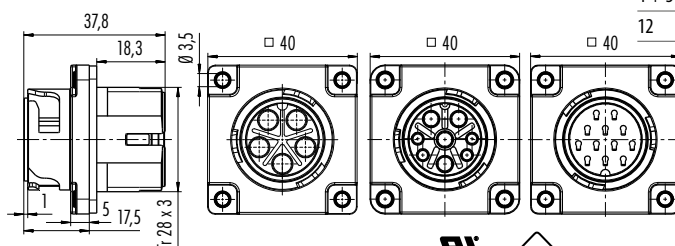
4+PE	7-17 mm	99 6490 000 05	
4 + 3+PE		99 6502 000 08	
12	7-13 mm	99 6518 000 12	

NEW

Crimp contacts see page 82



Male panel mount connector



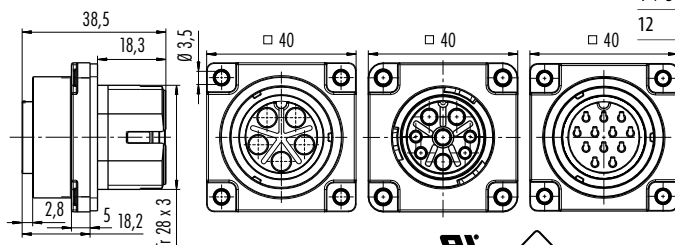
4+PE	—	99 6491 000 05	
4 + 3+PE	—	09 6503 000 08	
12	—	09 6519 000 12	

NEW

Crimp contacts see page 82



Female panel mount connector



4+PE	—	99 6492 000 05	
4 + 3+PE	—	09 6504 000 08	
12	—	09 6520 000 12	

NEW

Crimp contacts see page 82



Specifications

Contacts	4+PE	8 (4 + 3+PE)	12
Wire gauge	2,5 mm ² –6,0 mm ² (AWG 14–AWG 10)	0,14 mm ² –2,5 mm ² (AWG 26–AWG 14)	Male/female cable connector 0,14–0,75 mm ² ; Male/female panel mount connector 0,14–1,0 mm ² (AWG 26–18)
Mechanical operation	> 1000 Mating cycles		> 500 Mating cycles
Temperature range	– 40 °C /+ 100 °C		
Rated voltage	600 V	60 V Signal, 400 V Power	250 V
Pollution degree	3		
Rated current (40°C)	32 A ¹⁾	3 A Signal, 25 A Power (USR 20 A, CNR 16 A)	5 A
Contact plating	Ag (Crimp contacts see page 79)		
Material of housing	PA		

Description

Female panel mount connector, hinged cover

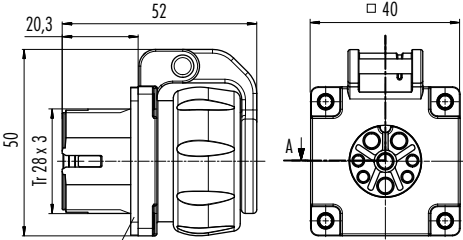
Drawing

Contacts

Ordering-No.

4+PE	99 6492 200 05
4 + 3+PE	99 6504 200 08
12	99 6520 200 12

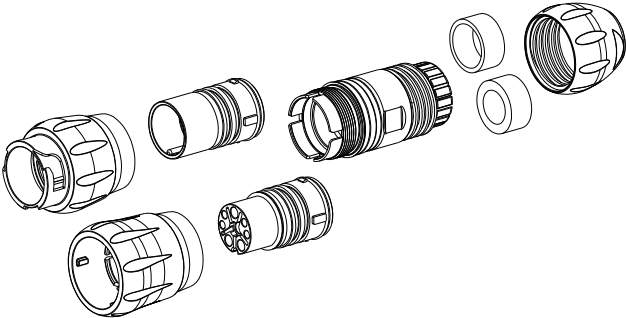
NEW



Flat seal enclosed loose

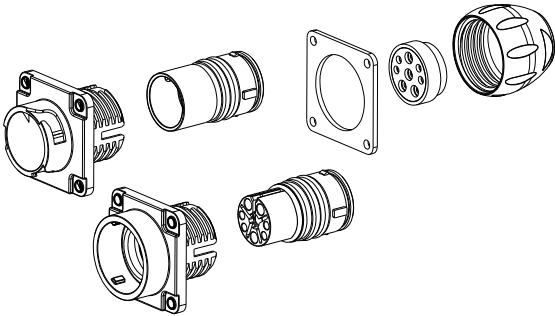
Component part drawing

Cable connectors



- Male locking device/
- Female locking device
- Female insert/
- Male insert
- Sleeve
- Seals 12–17 mm/7–13 mm
- Pressing screw

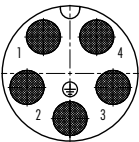
Panel mount connectors



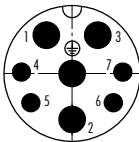
- Male housing/
- Female housing
- Female insert with O-rings/
- Male insert with O-rings
- Flat seal
- Optional with set of sealings

Contact arrangements male insert (mating side)

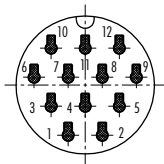
5 contacts



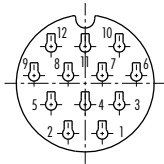
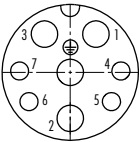
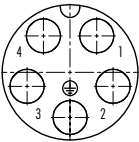
8 contacts



12 contacts

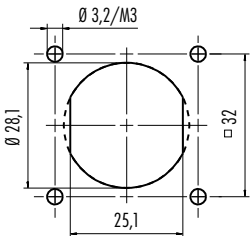


Contact arrangements female insert (mating side)



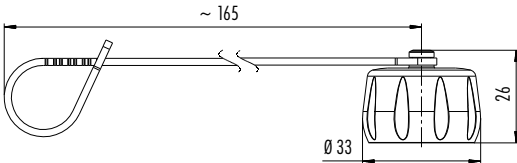
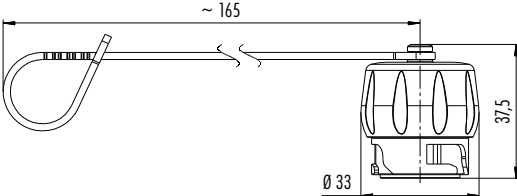
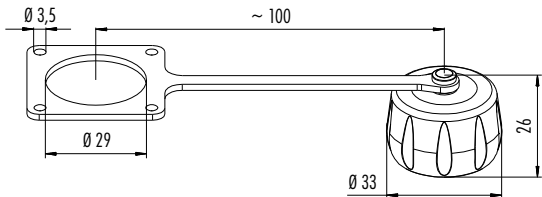
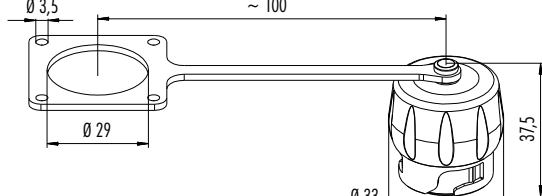
Panel cut out

Panel mount connectors



alternative with flattening

Description	Drawing	Contact-Ø	A	B	Wire gauge	AWG	Ordering-No.					
Male contact, power, PU 100 pieces, for 4+PE version		1,6 mm	2,2 2,8 3,5	3,3 3,9 4,6	2,5 mm² 4,0 mm² 6,0 mm²	14 12 10	61 1312 139 61 1310 139 61 1285 139					
NEW												
Female contact, power, PU 100 pieces, for 4+PE version		3,6 mm	2,2 2,8 3,5	3,3 3,9 4,6	2,5 mm² 4,0 mm² 6,0 mm²	14 12 10	61 1313 139 61 1311 139 61 1286 139					
NEW												
Single contact (Male), Signal/Power, PU 100 pieces for 4 + 3+PE version		1,6 mm	0,9 1,1 1,45 1,8	2,6 2,6 2,6 3,0	0,14–0,34 mm² 0,5 mm² 0,75–1,0 mm² 1,5 mm²	26–22 20 18 16	61 0891 139 61 0892 139 61 0893 139 61 0894 139					
		2,5 mm	1,8 2,2	3,0 3,2	1,5 mm² 2,5 mm²	16 14	61 0903 139 61 0902 139					
Single contact (Female), Signal/Power, PU 100 pieces for 4 + 3+PE version		1,6 mm	0,9 1,1 1,45 1,8	2,6 2,6 2,6 3,0	0,14–0,34 mm² 0,5 mm² 0,75–1,0 mm² 1,5 mm²	26–22 20 18 16	61 0896 139 61 0897 139 61 0898 139 61 0899 139					
		2,5 mm	1,8 2,2	3,0 3,2	1,5 mm² 2,5 mm²	16 14	61 0901 139 61 0900 139					
Single contact (Male), PU 50 pieces for 12 contacts version		Single contact (Female), PU 50 pieces for 12 contacts version										
Strip contact (Male) for 12 contacts version		Contact-Ø	Insulating-Ø	Wire gauge	PU	Pieces	Silver	Gold				
	1,5 mm	1,0–2,0 mm	0,14–0,25 mm²	Single	50	61 0799 085 00	61 0799 098 00					
				Strip	200	65 0799 085 01	65 0799 098 01					
				Strip	2.000	65 0799 085 02	65 0799 098 02					
				Strip	4.000	65 0799 085 04	65 0799 098 04					
				Strip	10.000	65 0799 085 10	65 0799 098 10					
				Single	50	61 0795 085 00	61 0795 098 00					
				Strip	200	65 0795 085 01	65 0795 098 01					
				Strip	2.000	65 0795 085 02	65 0795 098 02					
				Strip	4.000	65 0795 085 04	65 0795 098 04					
				Strip	10.000	65 0795 085 10	65 0795 098 10					
		1,6–2,1 mm	0,75–1,0 mm²	Single	50	61 0796 085 00	61 0796 098 00					
				Strip	200	65 0796 085 01	65 0796 098 01					
				Strip	2.000	65 0796 085 02	65 0796 098 02					
				Strip	4.000	65 0796 085 04	65 0796 098 04					
				Strip	10.000	65 0796 085 10	65 0796 098 10					
Strip contact (Female) for 12 contacts version		1,5 mm	1,0–2,0 mm	0,14–0,25 mm²	Single	50	61 0800 085 00	61 0800 098 00				
					Strip	200	65 0800 085 01	65 0800 098 01				
					Strip	2.000	65 0800 085 02	65 0800 098 02				
					Strip	4.000	65 0800 085 04	65 0800 098 04				
					Strip	10.000	65 0800 085 10	65 0800 098 10				
					Single	50	61 0797 085 00	61 0797 098 00				
					Strip	200	65 0797 085 01	65 0797 098 01				
					Strip	2.000	65 0797 085 02	65 0797 098 02				
					Strip	4.000	65 0797 085 04	65 0797 098 04				
					Strip	10.000	65 0797 085 10	65 0797 098 10				
					Single	50	61 0798 085 00	61 0798 098 00				
					Strip	200	65 0798 085 01	65 0798 098 01				
					Strip	2.000	65 0798 085 02	65 0798 098 02				
					Strip	4.000	65 0798 085 04	65 0798 098 04				
					Strip	10.000	65 0798 085 10	65 0798 098 10				

Description		Drawing		Ordering-No.																	
Protection cap for male cable connectors, IP67				08 3107 000 000																	
Protection cap for female cable connectors, IP67				08 3108 000 000																	
Protection cap for male panel mount connectors, IP67				08 3109 000 000																	
Protection cap for female panel mount connectors, IP67				08 3110 000 000																	
Crimping tool for turned crimp contacts		Crimping tool for stamped single contacts	Crimping tool for strip contacts	<table><tr><td>66 0005 000</td><td>turned contacts</td><td>5 contacts</td><td>■</td></tr><tr><td>66 0003 001</td><td>turned contacts</td><td>8 contacts</td><td></td></tr><tr><td>66 0001 014 100</td><td>stamped contacts</td><td>12 contacts</td><td></td></tr><tr><td>67 0001 014 100</td><td>strip contacts</td><td></td><td></td></tr></table> NEW		66 0005 000	turned contacts	5 contacts	■	66 0003 001	turned contacts	8 contacts		66 0001 014 100	stamped contacts	12 contacts		67 0001 014 100	strip contacts		
66 0005 000	turned contacts	5 contacts	■																		
66 0003 001	turned contacts	8 contacts																			
66 0001 014 100	stamped contacts	12 contacts																			
67 0001 014 100	strip contacts																				
																					
Extraction tool for turned crimp contacts		Extraction tool for stamped single contacts		<table><tr><td>66 0012 001</td><td>turned contacts</td><td>5 contacts</td><td>■</td></tr><tr><td>66 0004 001</td><td>turned contacts signal contact</td><td>8 contacts</td><td></td></tr><tr><td>66 0011 001</td><td>turned contacts power contact</td><td>8 contacts</td><td></td></tr><tr><td>07 0090 000</td><td>stamped contacts</td><td>12 contacts</td><td></td></tr></table> NEW		66 0012 001	turned contacts	5 contacts	■	66 0004 001	turned contacts signal contact	8 contacts		66 0011 001	turned contacts power contact	8 contacts		07 0090 000	stamped contacts	12 contacts	
66 0012 001	turned contacts	5 contacts	■																		
66 0004 001	turned contacts signal contact	8 contacts																			
66 0011 001	turned contacts power contact	8 contacts																			
07 0090 000	stamped contacts	12 contacts																			
																					
Sealing kit, IP67				<table><tr><th>Contacts</th><th colspan="2">Ordering-No.</th></tr><tr><td>4+PE</td><td>08 3274 000 000</td><td>without thrust ring ■</td></tr><tr><td>4 + 3+PE</td><td>08 3111 000 000</td><td>with thrust ring</td></tr><tr><td>12</td><td>08 3232 000 000</td><td>with thrust ring</td></tr></table> NEW		Contacts	Ordering-No.		4+PE	08 3274 000 000	without thrust ring ■	4 + 3+PE	08 3111 000 000	with thrust ring	12	08 3232 000 000	with thrust ring				
Contacts	Ordering-No.																				
4+PE	08 3274 000 000	without thrust ring ■																			
4 + 3+PE	08 3111 000 000	with thrust ring																			
12	08 3232 000 000	with thrust ring																			
		Seal for single wires Thrust ring Pressing screw																			
Cable		Wire gauge	Cable length	Ordering-No.																	
		4 x 1,0 mm², 4 x 2,5 mm²	100 m	08 3186 000 000																	



- Screw termination RD30
- 5- (4+PE), 13- (12+PE) and 24 contacts
- Degree of protection IP65
- Solder-/Screw clamp termination
- Diameter 40 mm
- Variants with VDE-, SEV-approval

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector		4+PE	10–12 mm	99 0709 00 05  
			12–14 mm	99 0709 02 05  
			14–18 mm	99 0709 03 05  
		12+PE	10–12 mm	99 0717 00 13
			12–14 mm	99 0717 02 13
			14–18 mm	99 0717 03 13
		24	10–12 mm	99 0737 00 24
			12–14 mm	99 0737 02 24
			14–18 mm	99 0737 03 24

Male angled connector		4+PE	10–12 mm	99 0709 70 05  
			12–14 mm	99 0709 72 05  
			14–18 mm	99 0709 73 05  
		12+PE	10–12 mm	99 0717 70 13
			12–14 mm	99 0717 72 13
			14–18 mm	99 0717 73 13
		24	10–12 mm	99 0737 70 24
			12–14 mm	99 0737 72 24
			14–18 mm	99 0737 73 24

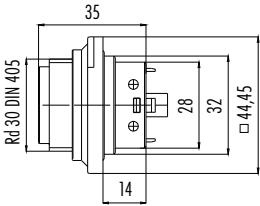
Female cable connector		4+PE	10–12 mm	99 0710 00 05  
			12–14 mm	99 0710 02 05  
			14–18 mm	99 0710 03 05  
		12+PE	10–12 mm	99 0718 00 13
			12–14 mm	99 0718 02 13
			14–18 mm	99 0718 03 13
		24	10–12 mm	99 0738 00 24
			12–14 mm	99 0738 02 24
			14–18 mm	99 0738 03 24

Female angled connector		4+PE	10–12 mm	99 0710 70 05  
			12–14 mm	99 0710 72 05  
			14–18 mm	99 0710 73 05  
		12+PE	10–12 mm	99 0718 70 13
			12–14 mm	99 0718 72 13
			14–18 mm	99 0718 73 13
		24	10–12 mm	99 0738 70 24
			12–14 mm	99 0738 72 24
			14–18 mm	99 0738 73 24

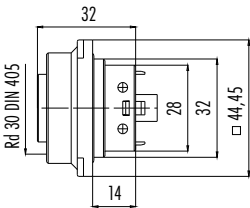
Specifications

Contacts	4+PE	12+PE	24
Wire gauge	max. 2,5 mm ² (max. AWG 14)	max. 1,0 mm ² (max. AWG 18)	max. 0,25 mm ² (max. AWG 24)
Mechanical operation	> 500 Mating cycles		
Temperature range	– 40 °C /+ 100 °C		
Rated voltage	400 V	250 V	125 V
Pollution degree	3		
Rated current (40°C)	20 A	6 A	3 A
Contact plating	Ag (Silver)		Au (Gold)
Material of housing	PA		

Description	Drawing	Contacts	Ordering-No.
Male panel mount connector		4+PE	99 0711 00 05  
		12+PE	99 0719 00 13
		24	99 0739 00 24

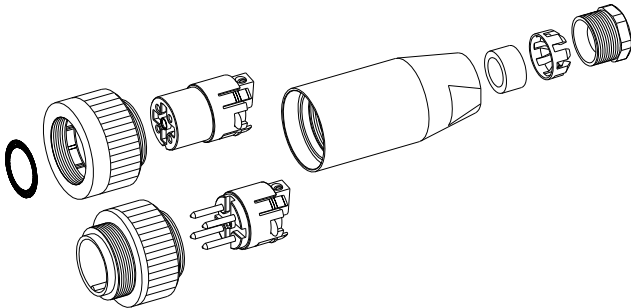


Female panel mount connector		4+PE	99 0712 00 05  
		12+PE	99 0720 00 13
		24	99 0740 00 24



Component part drawing

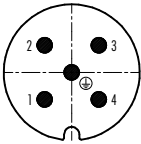
Cable connectors



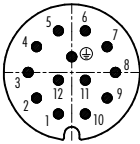
- O-ring 21 x 1,5
- Female housing/
- Male housing
- Female insert/
- Male insert
- Sleeve
- Seal
- Pinch ring
- Pressing screw

Contact arrangements male insert (mating side)

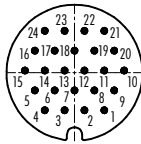
4+PE contacts



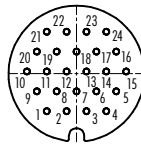
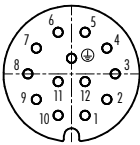
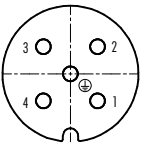
12+PE contacts



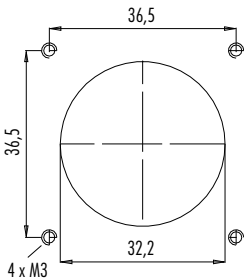
24 contacts



Contact arrangements female insert (mating side)



Panel cut out



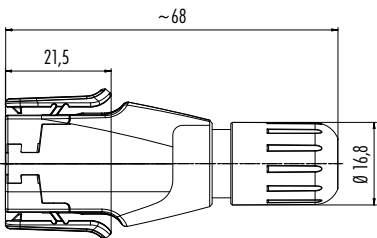
Protection caps for	
Male cable connector	08 0425 000 000
Female cable connector	08 0426 000 000
Male panel mount connector	08 0427 000 000
Female panel mount connector	08 0428 000 000

See on www.binder-connector.com

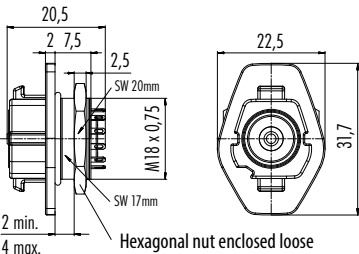


- Locking system with snap hooks
- 12 contacts
- Degree of protection IP54
- Solder termination
- Ergonomic design of connector
- Colour in greywhite similar to RAL 9002

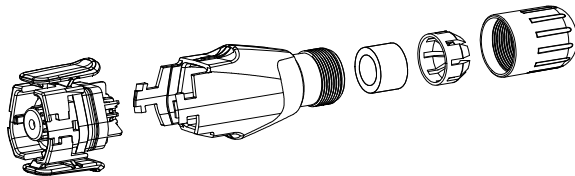
Description	Drawing	Contacts	Cable outlet max.	Ordering-No.
Male cable connector		12	4–6 mm 6–8 mm	99 1721 002 12 99 1721 000 12



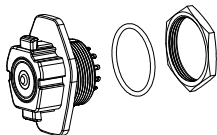
Description	Drawing	Contacts	Ordering-No.
Female panel mount connector, solder		12	99 1724 000 12



Female panel mount connector, solder



- Male contact body
- Male insert
- Sealing
- O-ring
- Male contact solder
- Sleeve
- Seal
- Pinch ring
- Pressing screw

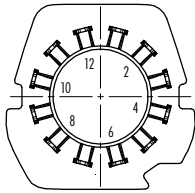


- Female contact body
- Female insert
- Contact spring solder
- O-ring
- Hexagonal nut

Specifications	
Contacts	12
Wire gauge	max. 0,25 mm ² (max. AWG 24)
Mechanical operation	> 5000 Mating cycles
Temperature range	–25 °C / + 85 °C
Rated voltage	175 V
Pollution degree	2
Rated current (40°C)	2 A
Contact plating	Au (Gold)
Material of housing	PA 66

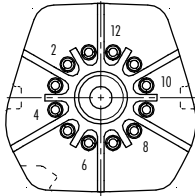
Contact arrangements male insert (termination side)

12 contacts



	X	Y
1	1,59	5,94
2	4,35	4,35
3	5,94	1,59
4	5,94	-1,59
5	4,35	-4,35
6	1,59	-5,94
7	-1,59	-5,94
8	-4,35	-4,35
9	-5,94	-1,59
10	-5,94	1,59
11	-4,35	4,35
12	-1,59	5,94

Contact arrangements female insert (termination side)



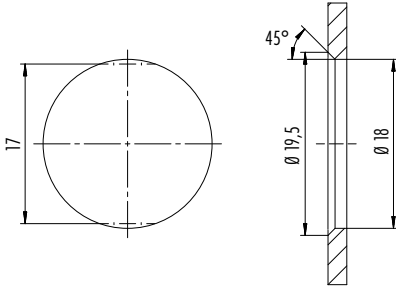
	X	Y
1	-1,09	4,06
2	-2,97	2,97
3	-4,06	1,09
4	-4,06	-1,09
5	-2,97	-2,97
6	-1,09	-4,06
7	1,09	-4,06
8	2,97	-2,97
9	4,06	-1,09
10	4,06	1,09
11	2,97	2,97
12	1,09	4,06

Panel cut out

Panel mount connectors

Alternative with flats

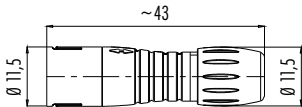
Mounting wall





- Snap-in locking system
- 3 – 8 contacts
- Degree of protection IP67
- Solder termination
- Diameter 11,5 mm
- Moulded versions on request
- Colour in greywhite similar to RAL 9002

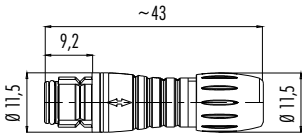
Description	Drawing	Contacts	Cable outlet	Greywhite
Male cable connector		3	3–5 mm	99 9205 400 03
		4		99 9209 400 04
		5		99 9213 400 05
		8		99 9225 400 08



Male cable connector, red, blue, green		Cable outlet	Red	Blue	Green
			3	99 9205 450 03	99 9205 460 03
			4	99 9209 450 04	99 9209 460 04
			5	99 9213 450 05	99 9213 460 05
			8	99 9225 450 08	99 9225 460 08



Female cable connector		Cable outlet	Greywhite		
			3	99 9206 400 03	
			4	99 9210 400 04	
			5	99 9214 400 05	
			8	99 9226 400 08	



Female cable connector, red, blue, green		Cable outlet	Red	Blue	Green
			3	99 9206 450 03	99 9206 460 03
			4	99 9210 450 04	99 9210 460 04
			5	99 9214 450 05	99 9214 460 05
			8	99 9226 450 08	99 9226 460 08



Specifications				
Contacts	3	4	5	8
Wire gauge	max. 0,25 mm ² (max. AWG 24)			
Mechanical operation	> 500 Mating cycles			
Temperature range	−40 °C /+ 85 °C			
Rated voltage	125 V		63 V	
Pollution degree	2			
Rated current (40°C)	3 A	2,5 A	2 A	1 A
Contact plating	Au (Gold)			
Material of housing	PA			

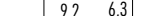
Description	Drawing	Contacts	Solder termination	Dip-solder termination
Male panel mount connector, solder termination/dip-solder termination		3	99 9207 400 03	99 9207 490 03
		4	99 9211 400 04	99 9211 490 04
		5	99 9215 400 05	99 9215 490 05
		8	99 9227 400 08	99 9227 490 08

		Red	Blue	Green
Male panel mount connector, solder termination 	3	99 9207 050 03	99 9207 060 03	99 9207 070 03
	4	99 9211 050 04	99 9211 060 04	99 9211 070 04
	5	99 9215 050 05	99 9215 060 05	99 9215 070 05
	8	99 9227 050 08	99 9227 060 08	99 9227 070 08

		Solder termination	Dip-solder termination
Female panel mount connector, solder termination/dip-solder termination	3	99 9208 400 03	99 9208 490 03
	4	99 9212 400 04	99 9212 490 04
	5	99 9216 400 05	99 9216 490 05
	8	99 9228 400 08	99 9228 490 08



		Red	Blue	Green
Female panel mount connector, solder termination	3	99 9208 050 03	99 9208 060 03	99 9208 070 03
	4	99 9212 050 04	99 9212 060 04	99 9212 070 04
	5	99 9216 050 05	99 9216 060 05	99 9216 070 05
	8	99 9228 050 08	99 9228 060 08	99 9228 070 08



	Ordering-No.
Adapter for panel mount connector for recessed mounting	08 2636 400 001

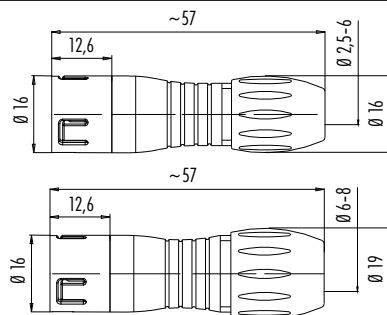
Component part drawing

Cable connectors	Male insert Female insert Sleeve Seal Pinch ring Pressing screw	Panel mount connectors solder/dip-solder	Male insert Female insert Flat seal Hexagonal nut	Adapter	Adapter Flat seal Hexagonal nut



- Snap-in locking system
- 3 – 12 contacts
- Degree of protection IP67
- Solder termination
- Diameter 16 mm
- Coloured types
- Moulded versions on request
- Colour in greywhite similar to RAL 9002

Description	Drawing	Contacts	Cable outlet	Greywhite
Male cable connector		3		99 9105 400 03
		5	4–6 mm	99 9113 400 05
		8		99 9125 400 08
		12	6–8 mm	99 9133 402 12

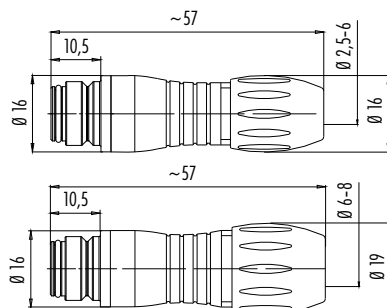


Male cable connector,
red, blue, green



Cable outlet	Red	Blue	Green
3	99 9105 450 03	99 9105 460 03	99 9105 470 03
5	99 9113 450 05	99 9113 460 05	99 9113 470 05
8	99 9125 450 08	99 9125 460 08	99 9125 470 08
12	99 9133 452 12	99 9133 462 12	99 9133 472 12

Female cable connector



Contacts	Cable outlet	Greywhite
3		99 9106 400 03
5	4–6 mm	99 9114 400 05
8		99 9126 400 08
12	6–8 mm	99 9134 402 12

Female cable connector,
red, blue, green



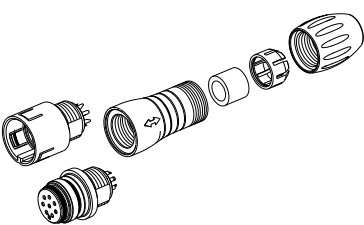
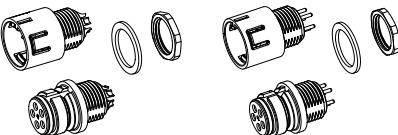
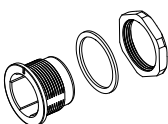
Cable outlet	Red	Blue	Green
3	99 9106 450 03	99 9106 460 03	99 9106 470 03
5	99 9114 450 05	99 9114 460 05	99 9114 470 05
8	99 9126 450 08	99 9126 460 08	99 9126 470 08
12	99 9134 452 12	99 9134 462 12	99 9134 472 12

Specifications

Contacts	3	5	8	12
Wire gauge	max. 0,75 mm ² (max. AWG 20)		max. 0,25 mm ² (max. AWG 24)	
Mechanical operation	> 500 Mating cycles			
Temperature range	−25 °C / + 85 °C			
Rated voltage	250 V	125 V		60 V
Pollution degree	2			
Rated current (40°C)	7 A	5 A	2 A	
Contact plating	Au (Gold)			
Material of housing	PA			

Description	Drawing	Contacts	Solder termination	Dip-solder termination
Male panel mount connector, solder termination/dip-solder termination		3 5 8 12	99 9107 400 03 99 9115 400 05 99 9127 400 08 99 9135 400 12	99 9107 490 03 99 9115 490 05 99 9127 490 08 99 9135 490 12
Male panel mount connector, solder termination			Red 3 5 8 12	Blue 99 9107 60 03 99 9115 60 05 99 9127 60 08 99 9135 60 12 Green 99 9107 70 03 99 9115 70 05 99 9127 70 08 99 9135 70 12
Female panel mount connector, solder termination/dip-solder termination		3 5 8 12	99 9108 400 03 99 9116 400 05 99 9128 400 08 99 9136 400 12	99 9108 490 03 99 9116 490 05 99 9128 490 08 99 9136 490 12
Female panel mount connector, solder termination			Red 3 5 8 12	Blue 99 9108 60 03 99 9116 60 05 99 9128 60 08 99 9136 60 12 Green 99 9108 70 03 99 9116 70 05 99 9128 70 08 99 9136 70 12
Adapter for panel mount connector		Ordering-No. 08 2433 400 001		

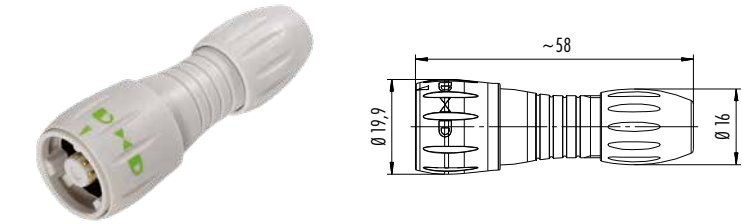
Component part drawing

Cable connectors	Male insert Female insert Sleeve Seal Pinch ring Pressing screw	Panel mount connectors solder/dip-solder	Male insert Female insert Flat seal Hexagonal nut	Adapter	Adapter Flat seal Hexagonal nut
					

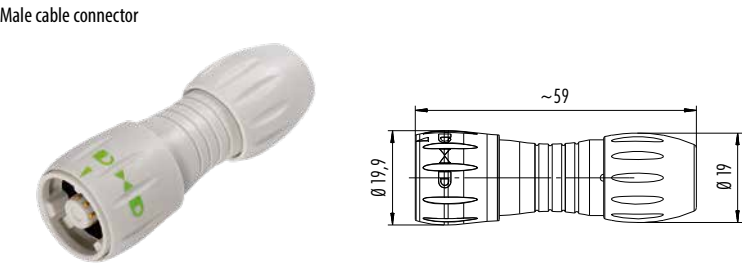


- Bayonet locking system
- 8 contacts
- Degree of protection IP67
- Solder termination
- > 5000 Mating cycles
- Panel mount connector: Degree of protection IP67 even when not connected
- Colour in greywhite similar to RAL 9002

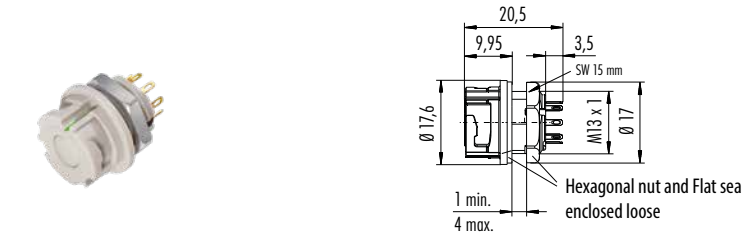
Description	Drawing	Contacts	Cable outlet 2,5–4 mm	Cable outlet 4–6 mm
Male cable connector		8	99 0771 400 08	99 0771 401 08



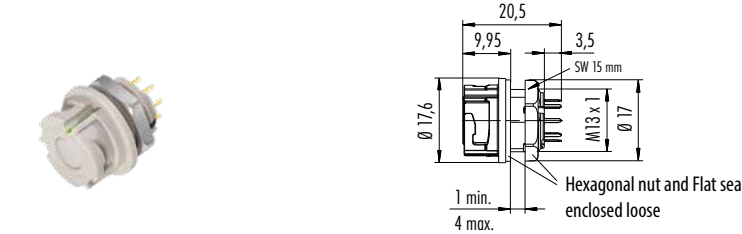
Contacts	Cable outlet 6–8 mm
8	99 0771 402 08



	Ordering-No.
Female panel mount connector, solder	8 09 0774 400 08



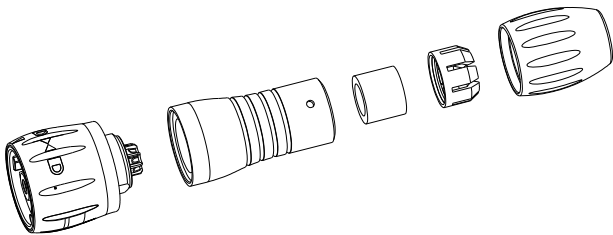
Female panel mount connector, dip-solder	8 09 0774 490 08
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Specifications	
Contacts	8
Wire gauge	0,25 mm ² (AWG 24)
Mechanical operation	> 5000 Mating cycles
Temperature range	–25 °C / + 85 °C
Rated voltage	175 V
Pollution degree	2
Rated current (40°C)	2 A
Contact plating	Au (Gold)
Material of housing	PA

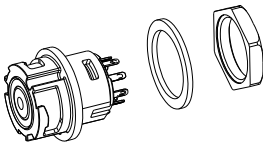
Component part drawing

Cable connector



- Male insert
- Sleeve
- Seal
- Pinch ring
- Pressing screw

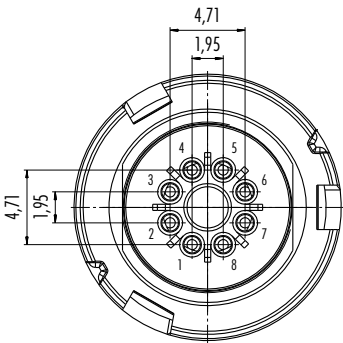
Panel mount connector



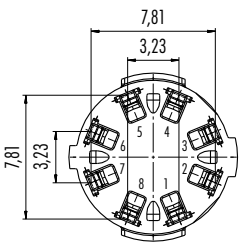
- Female insert
- Panel mount connector housing with colour coding
- Flat seal
- Hexagonal nut

Contact arrengement male insert (termination side)

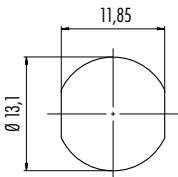
8 contacts

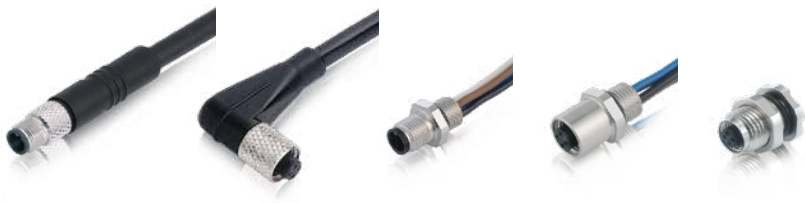


Contact arrengement female insert (termination side)



Panel cut out





- Screw locking acc. to DIN EN 61076-2-105
- 3 and 4 contacts
- Degree of protection IP67
- Moulded versions
- Thread nut with immunity to vibration
- PUR cable

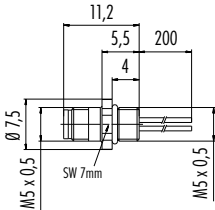
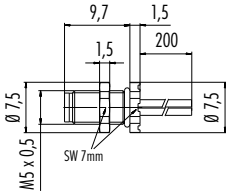
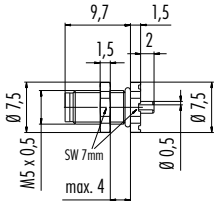
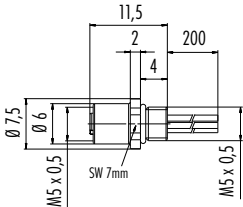
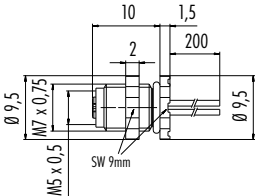
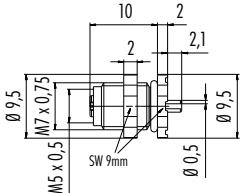
Description	Drawing	Contacts	Cable length, PUR	Unshielded	Shielded
Male cable connector, moulded, M5 x 0,5		3 x 0,14	2 m	79 3101 52 03	79 3121 52 03
			5 m	79 3101 55 03	79 3121 525 03
		3 x 0,25	2 m	79 3101 32 03	–
			5 m	79 3101 35 03	–
		4 x 0,14	2 m	79 3107 52 04	79 3127 52 04
			5 m	79 3107 55 04	79 3127 525 04
		4 x 0,25	2 m	79 3107 32 04	–
			5 m	79 3107 35 04	–

Male angled connector, moulded, M5 x 0,5		3 x 0,14	2 m	79 3103 52 03	
			5 m	79 3103 55 03	
		3 x 0,25	2 m	79 3103 32 03	
			5 m	79 3103 35 03	
		4 x 0,14	2 m	79 3109 52 04	
			5 m	79 3109 55 04	
		4 x 0,25	2 m	79 3109 32 04	
			5 m	79 3109 35 04	

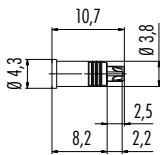
Female cable connector, moulded, M5 x 0,5		3 x 0,14	2 m	79 3102 52 03	79 3122 52 03
			5 m	79 3102 55 03	79 3122 525 03
		3 x 0,25	2 m	79 3102 32 03	–
			5 m	79 3102 35 03	–
		4 x 0,14	2 m	79 3108 52 04	79 3128 52 04
			5 m	79 3108 55 04	79 3128 525 04
		4 x 0,25	2 m	79 3108 32 04	–
			5 m	79 3108 35 04	–

Female angled connector, moulded, M5 x 0,5		3 x 0,14	2 m	79 3104 52 03	
			5 m	79 3104 55 03	
		3 x 0,25	2 m	79 3104 32 03	
			5 m	79 3104 35 03	
		4 x 0,14	2 m	79 3110 52 04	
			5 m	79 3110 55 04	
		4 x 0,25	2 m	79 3110 32 04	
			5 m	79 3110 35 04	

Specifications		
Contacts	3	4
Wire gauge	0,14 mm ² (AWG 26), 0,25 mm ² (AWG 24)	
Mechanical operation	> 100 Mating cycles	
Temperature range	– 25 °C / + 80 °C	
Rated voltage	60 V	
Pollution degree	3	
Rated current (40°C)	1 A	
Contact plating	Au (Gold)	
Material of housing	PUR	

Description	Drawing	Contacts	Ordering-No.
Male panel mount connector, with single wires	 	3 x 0,14	09 3105 00 03
		3 x 0,25	09 3105 01 03
		4 x 0,14	09 3111 00 04
		4 x 0,25	09 3111 01 04
Male panel mount connector, front fastened, with single wires	 	3 x 0,14	09 3105 86 03
		4 x 0,14	09 3111 86 04
Male panel mount connector, dip-solder	 	3	09 3105 81 03
		4	09 3111 81 04
Female panel mount connector, with single wires	 	3 x 0,14	09 3106 00 03
		3 x 0,25	09 3106 01 03
		4 x 0,14	09 3112 00 04
		4 x 0,25	09 3112 01 04
Female panel mount connector, front fastened, with single wires	 	3 x 0,14	09 3106 86 03
		4 x 0,14	09 3112 86 04
Female panel mount connector, dip-solder	 	3	09 3106 81 03
		4	09 3112 81 04

Description	Drawing	Contacts	Black
Male receptacle for sensor tubes, tube-Ø 3,75–H7		4	09 3111 71 04



Contact arrangements male insert (mating side)

3 contacts



4 contacts



Contact arrangements female insert (mating side)



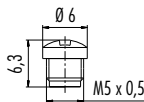
Colour of wire, moulded cable and panel mount connectors

- 1 brown
- 2 white
- 3 blue
- 4 black

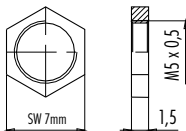
Panel cut out



Description	Drawing	Ordering-No.
M5 Protection cap for female connector		08 2610 000 000



Hexagonal nut M5 x 0,5		01 5118 001
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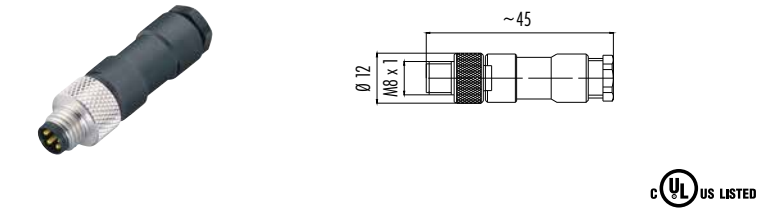




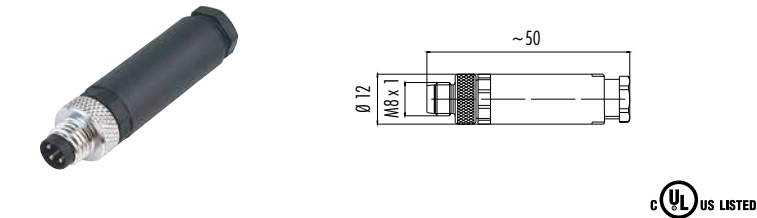
- Screw locking acc. to DIN EN 61076-2-104
- Degree of protection IP67
- Moulded versions
- Easy Assembly
- Excellent EMC shielding (versions with shielding rings 360°)
- Versions with shielding rings/iris type spring
- Angled connectors adjustable in 2/4 positions



Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector, solder		3	3,5–5 mm	99 3379 00 03
		4		99 3383 00 04



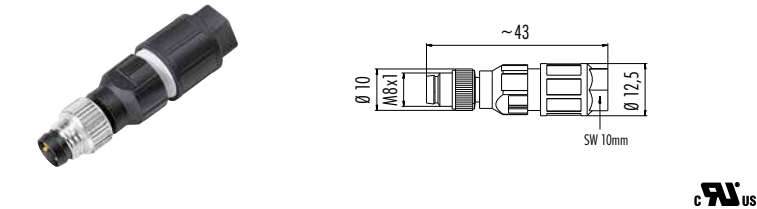
Male cable connector, screw		3	3,5–5 mm	99 3379 100 03
		4		99 3383 100 04



Male cable connector, biatec®		3	3–5 mm	99 3379 400 03
		4		99 3383 400 04



Male cable connector, IDT connection		Contacts	Wire gauge	Ordering-No.
		3	0,08–0,25 mm²	99 3379 500 03
			0,25–0,5 mm²	99 3379 550 03
		4	0,08–0,25 mm²	99 3383 500 04
			0,25–0,5 mm²	99 3383 550 04

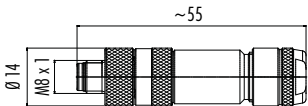


Specifications	Cable connector	
Contacts	3	4
Wire gauge	solder 0,25 mm² (AWG 24), screw 0,14 mm²–0,5 mm² (AWG 26–20), biatec® 0,14–0,38 mm² (AWG 26–22)	
Mechanical operation	> 100 Mating cycles	
Temperature range	solder, screw –40 °C /+ 80 °C, IDT connection, biatec® –25 °C /+ 80 °C, moulded –25 °C /+ 85 °C	
Rated voltage	60 V (30 V UL)	
Pollution degree	3	
Rated current (40°C)	4 A	
Contact plating	Au (Gold)	
Material of housing	PBT/PA/CuZn (brass)	

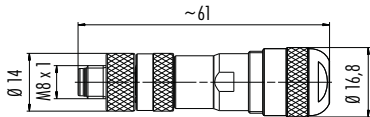
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector, solder, shieldable		3	2–3,5 mm	99 3361 25 03
			3,5–5 mm	99 3361 00 03
		4	2–3,5 mm	99 3363 25 04
			3,5–5 mm	99 3363 00 04



Male cable connector, screw clamp termination, iris type spring, shieldable	3	3,5–5,5 mm	99 3361 100 03
	4		99 3363 100 04

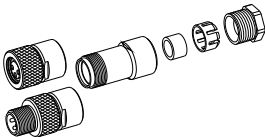


Male cable connector, screw clamp termination, with shielding ring, shieldable	3	6–8 mm	99 3361 300 03
	4		99 3363 300 04



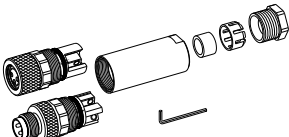
Component part drawing/Assembly instruction

Cable connector, solder



Female insert/
Male insert
Sleeve
Seal
Pinch ring
Pressing screw

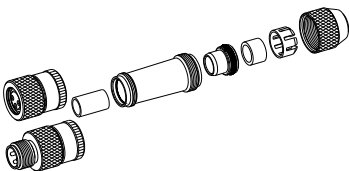
Cable connector, screw



Female insert/
Male insert
Sleeve
Seal
Pinch ring
Pressing screw

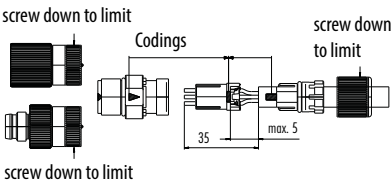
Hexagonal nut added

Cable connector, solder, shieldable

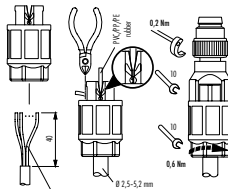


Female insert/
Male insert
Insulation sleeve
Sleeve
Shielding ring
O-ring
Seal
Pinch ring
Pressing screw

Cable connector, biatec®

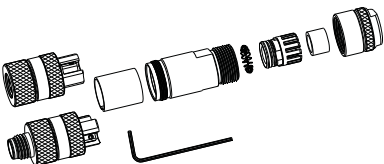


Cable connector, IDT connection



Wire cross section
0,08–0,25 mm², 0,25–0,50 mm²

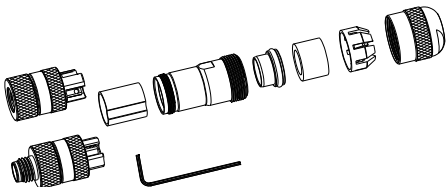
Cable connector, screw clamp termination, iris type spring, shieldable



Female insert/
Male insert
Insulating sleeve,
Housing, Iris type spring,
O-ring, Pinch ring, Seal,
Pressing screw
are premounted

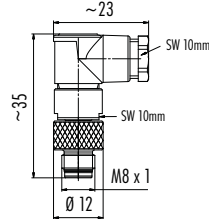
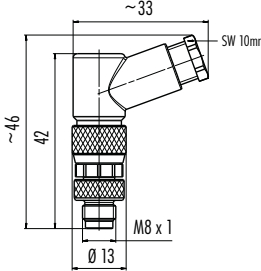
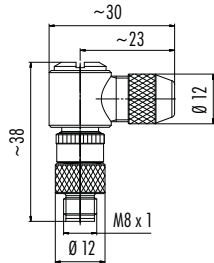
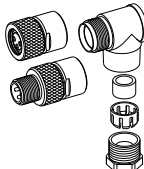
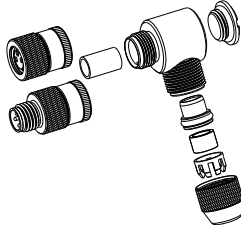
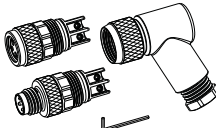
Hexagonal nut added

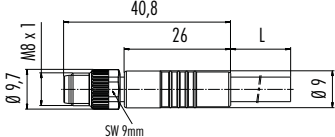
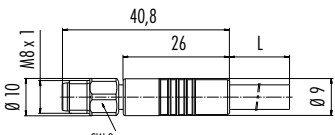
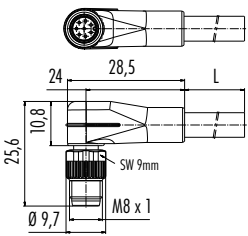
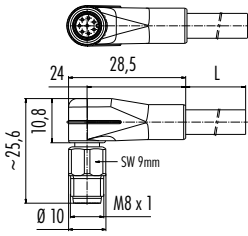
Cable connector, screw clamp termination, shieldable



Female insert/
Male insert
Insulating sleeve,
Housing,
Shielding ring, O-ring,
Seal, Pinch ring,
Pressing screw
are premounted

Hexagonal nut added

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male angled connector, solder	 	3 4	3,5–5 mm	99 3385 00 03 99 3387 00 04
Male angled connector, screw clamp termination	 	3 4	3,5–5 mm	99 3379 110 03 99 3383 110 04
Male angled connector, solder, shieldable	 	3 4	3,5–5 mm	99 3365 00 03 99 3367 00 04
Component part drawing				
Angled connector, solder				Female insert/ Male insert Angled housing Seal Pinch ring Pressing screw Cable outlet adjustable in 4 positions
Angled connector, screw				Female insert/ Male insert Angled housing Cable outlet adjustable in 2 positions Hexagonal nut added
Colour of wire, moulded cable and panel mount connectors				
3 contacts	4, 5, 6 contacts	8 contacts		
1 brown	1 brown	1 white		
2 not connected	2 white	2 brown		
3 blue	3 blue	3 green		
4 black	4 black	4 yellow		
	5 grey	5 grey		
	6 pink	6 pink		
		7 blue		
		8 red		

Description	Drawing	Contacts	Cable jacket	Cable length	Ordering-No.
Male cable connector, moulded, screw version, M8 x 1	  	3 x 0,34	PVC	2 m	77 3405 0000 20003-0200
				5 m	77 3405 0000 20003-0500
			PUR	2 m	77 3405 0000 50003-0200
				5 m	77 3405 0000 50003-0500
		4 x 0,34	PVC	2 m	77 3405 0000 20004-0200
				5 m	77 3405 0000 20004-0500
			PUR	2 m	77 3405 0000 50004-0200
				5 m	77 3405 0000 50004-0500
		6 x 0,25	PUR	2 m	77 3405 0000 50006-0200
				5 m	77 3405 0000 50006-0500
		8 x 0,25	PUR	2 m	77 3405 0000 50008-0200
				5 m	77 3405 0000 50008-0500
Male cable connector, moulded, screw version, M8 x 1, stainless steel locking ring	  	3 x 0,34	PVC	2 m	77 3705 0000 20003-0200
				5 m	77 3705 0000 20003-0500
			PUR	2 m	77 3705 0000 50003-0200
				5 m	77 3705 0000 50003-0500
		4 x 0,34	PVC	2 m	77 3705 0000 20004-0200
				5 m	77 3705 0000 20004-0500
			PUR	2 m	77 3705 0000 50004-0200
				5 m	77 3705 0000 50004-0500
		6 x 0,25	PUR	2 m	77 3705 0000 50006-0200
				5 m	77 3705 0000 50006-0500
		8 x 0,25	PUR	2 m	77 3705 0000 50008-0200
				5 m	77 3705 0000 50008-0500
Male angled connector, moulded, screw version, M8 x 1	  	3 x 0,34	PVC	2 m	77 3403 0000 20003-0200
				5 m	77 3403 0000 20003-0500
			PUR	2 m	77 3403 0000 50003-0200
				5 m	77 3403 0000 50003-0500
		4 x 0,34	PVC	2 m	77 3403 0000 20004-0200
				5 m	77 3403 0000 20004-0500
			PUR	2 m	77 3403 0000 50004-0200
				5 m	77 3403 0000 50004-0500
		6 x 0,25	PUR	2 m	77 3403 0000 50006-0200
				5 m	77 3403 0000 50006-0500
		8 x 0,25	PUR	2 m	77 3403 0000 50008-0200
				5 m	77 3403 0000 50008-0500
Male angled connector, moulded, screw version, M8 x 1, stainless steel locking ring	  	3 x 0,34	PVC	2 m	77 3703 0000 20003-0200
				5 m	77 3703 0000 20003-0500
			PUR	2 m	77 3703 0000 50003-0200
				5 m	77 3703 0000 50003-0500
		4 x 0,34	PVC	2 m	77 3703 0000 20004-0200
				5 m	77 3703 0000 20004-0500
			PUR	2 m	77 3703 0000 50004-0200
				5 m	77 3703 0000 50004-0500
		6 x 0,25	PUR	2 m	77 3703 0000 50006-0200
				5 m	77 3703 0000 50006-0500
		8 x 0,25	PUR	2 m	77 3703 0000 50008-0200
				5 m	77 3703 0000 50008-0500

Specifications	Cable connector, moulded			
Contacts	3		4	
Wire gauge	0,34 mm² (AWG 22)		0,25 mm² (AWG 24)	
Mechanical operation	> 100 Mating cycles			
Temperature range	−25 °C /+ 85 °C			
Rated voltage	60 V, 10–30 V with LED		30 V	
Pollution degree	3			
Rated current (40°C)	4 A		1,5 A	
Contact plating	Au (Gold)			
Material of housing	PUR			

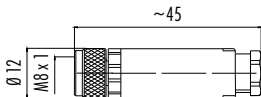
Specifications	Standard Cable			
Contacts	3		4	
Wire gauge	3 x 0,34 mm ² (AWG 22)		4 x 0,34 mm ² (AWG 22)	
Material jacket	PVC	PUR	PVC	PUR
Insulation of wire	PVC	PP	PVC	PP
Remark	In chain flex application or when stressed mechanically +60 °C.			
Approval	UL/CSA			
UL-style	PVC: AWM 2517 PUR: AWM 20549			

¹⁾ Standard cable length is 2 m/5 m. Other lengths upon request.

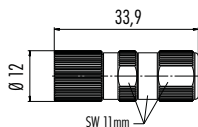
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, solder		3	3,5–5 mm	99 3400 00 03
		4		99 3376 00 04



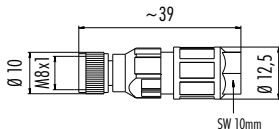
Female cable connector, screw		3	3,5–5 mm	99 3400 100 03
		4		99 3376 100 04



Female cable connector, biatec®		3	3–5 mm	99 3400 400 03
		4		99 3376 400 04

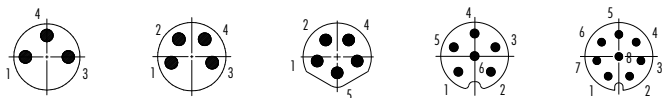


Female cable connector, IDT connection		Contacts	Wire gauge	Ordering-No.
		3	0,08–0,25 mm ² 0,25–0,5 mm ²	99 3400 500 03 99 3400 550 03
		4	0,08–0,25 mm ² 0,25–0,5 mm ²	99 3376 500 04 99 3376 550 04

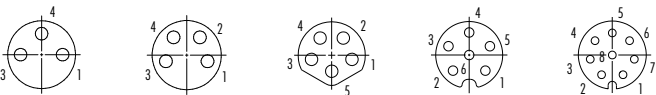


Contact arrangements male insert (mating side)

3 contacts 4 contacts 5 contacts 6 contacts 8 contacts



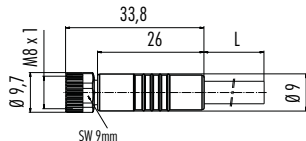
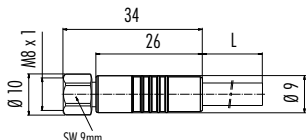
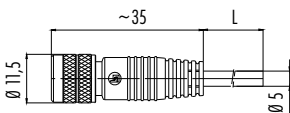
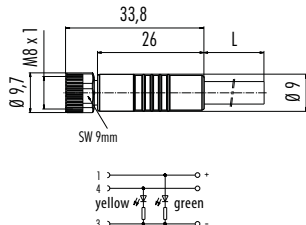
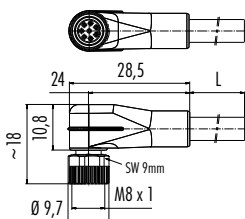
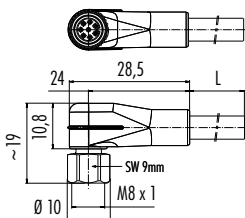
Contact arrangements female insert (mating side)

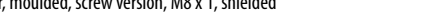


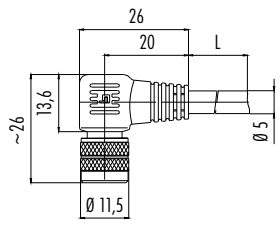
Colour of wire, moulded cable and panel mount connectors

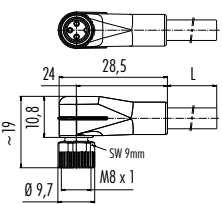
3 contacts	4, 5, 6 contacts	5 contacts 09 3425 XXX 05, 09 3424 XXX 05	8 contacts
1 brown	1 brown	1 grey	1 white
2 not connected	2 white	2 red	2 brown
3 blue	3 blue	3 black	3 green
4 black	4 black	4 white	4 yellow
	5 grey	5 blue	5 grey
	6 pink		6 pink
			7 blue
			8 red

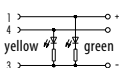
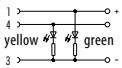
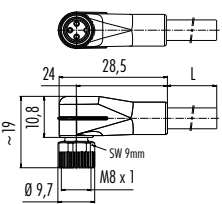
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, solder, shieldable		3	2–3,5 mm	99 3360 25 03
			3,5–5 mm	99 3360 00 03 
		4	2–3,5 mm	99 3362 25 04
			3,5–5 mm	99 3362 00 04 
Female cable connector, screw clamp termination, iris type spring, shieldable		3	3,5–5,5 mm	99 3360 100 03
		4		99 3362 100 04
Female cable connector, screw clamp termination, with shielding ring, shieldable		3	6–8 mm	99 3360 300 03
		4		99 3362 300 04
Female angled connector, solder		3	3,5–5 mm	99 3402 00 03
		4		99 3378 00 04
Female angled connector, screw clamp termination		3	3,5–5 mm	99 3400 110 03
		4		99 3376 110 04
Female angled connector, solder, shieldable		3	3,5–5 mm	99 3364 00 03
		4		99 3366 00 04

Description	Drawing	Contacts	Cable jacket	Cable length	Ordering-No.	
Female cable connector, moulded, screw version, M8 x 1	   US LISTED	3 x 0,34	PVC	2 m	77 3406 0000 20003-0200	
				5 m	77 3406 0000 20003-0500	
			PUR	2 m	77 3406 0000 50003-0200	
				5 m	77 3406 0000 50003-0500	
		4 x 0,34	PVC	2 m	77 3406 0000 20004-0200	
				5 m	77 3406 0000 20004-0500	
			PUR	2 m	77 3406 0000 50004-0200	
				5 m	77 3406 0000 50004-0500	
		6 x 0,25	PUR	2 m	77 3406 0000 50006-0200	
				5 m	77 3406 0000 50006-0500	
		8 x 0,25	PUR	2 m	77 3406 0000 50008-0200	
				5 m	77 3406 0000 50008-0500	
Female cable connector, moulded, screw version, M8 x 1, stainless steel locking ring	   US LISTED	3 x 0,34	PVC	2 m	77 3706 0000 20003-0200	
				5 m	77 3706 0000 20003-0500	
			PUR	2 m	77 3706 0000 50003-0200	
				5 m	77 3706 0000 50003-0500	
		4 x 0,34	PVC	2 m	77 3706 0000 20004-0200	
				5 m	77 3706 0000 20004-0500	
			PUR	2 m	77 3706 0000 50004-0200	
				5 m	77 3706 0000 50004-0500	
		6 x 0,25	PUR	2 m	77 3706 0000 50006-0200	
				5 m	77 3706 0000 50006-0500	
		8 x 0,25	PUR	2 m	77 3706 0000 50008-0200	
				5 m	77 3706 0000 50008-0500	
Female cable connector, moulded, screw version, M8 x 1, shielded	   US LISTED	3 x 0,34	PUR	2 m	77 3506 0000 50003-0200	
				5 m	77 3506 0000 50003-0500	
		4 x 0,34		2 m	77 3506 0000 50004-0200	
				5 m	77 3506 0000 50004-0500	
Female cable connector, moulded, screw version, M8 x 1, LED, PNP	 	3 x 0,34	PVC	2 m	77 3606 0000 20003-0200	
				5 m	77 3606 0000 20003-0500	
				PUR	2 m	77 3606 0000 50003-0200
					5 m	77 3606 0000 50003-0500
Female angled connector, moulded, screw version, M8 x 1	   US LISTED	3 x 0,34	PVC	2 m	77 3408 0000 20003-0200	
				5 m	77 3408 0000 20003-0500	
			PUR	2 m	77 3408 0000 50003-0200	
				5 m	77 3408 0000 50003-0500	
		4 x 0,34	PVC	2 m	77 3408 0000 20004-0200	
				5 m	77 3408 0000 20004-0500	
			PUR	2 m	77 3408 0000 50004-0200	
				5 m	77 3408 0000 50004-0500	
		6 x 0,25	PUR	2 m	77 3408 0000 50006-0200	
				5 m	77 3408 0000 50006-0500	
		8 x 0,25	PUR	2 m	77 3408 0000 50008-0200	
				5 m	77 3408 0000 50008-0500	
Female angled connector, moulded, screw version, M8 x 1, stainless steel locking ring	   US LISTED	3 x 0,34	PVC	2 m	77 3708 0000 20003-0200	
				5 m	77 3708 0000 20003-0500	
			PUR	2 m	77 3708 0000 50003-0200	
				5 m	77 3708 0000 50003-0500	
		4 x 0,34	PVC	2 m	77 3708 0000 20004-0200	
				5 m	77 3708 0000 20004-0500	
			PUR	2 m	77 3708 0000 50004-0200	
				5 m	77 3708 0000 50004-0500	
		6 x 0,25	PUR	2 m	77 3708 0000 50006-0200	
				5 m	77 3708 0000 50006-0500	
		8 x 0,25	PUR	2 m	77 3708 0000 50008-0200	
				5 m	77 3708 0000 50008-0500	

Description	Drawing	Contacts	Cable jacket	Cable length	Ordering-No.
Female angled connector, moulded, screw version, M8 x 1, shielded		3 x 0,34	PUR	2 m	77 3508 0000 50003-0200
		4 x 0,34		5 m	77 3508 0000 50003-0500
				2 m	77 3508 0000 50004-0200
				5 m	77 3508 0000 50004-0500

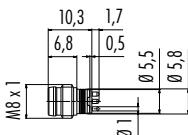


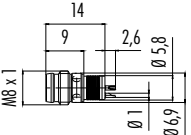
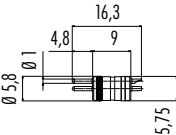
Female angled connector, moulded, screw version, M8 x 1, LED, PNP		3 x 0,34	PVC	2 m	77 3608 0000 20003-0200
			PVC	5 m	77 3608 0000 20003-0500
		4 x 0,34	PUR	2 m	77 3608 0000 50003-0200
			PUR	5 m	77 3608 0000 50003-0500
		4 x 0,34	PVC	2 m	77 3608 0000 20004-0200
			PVC	5 m	77 3608 0000 20004-0500

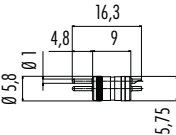
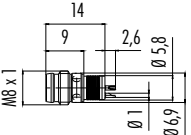


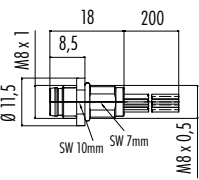
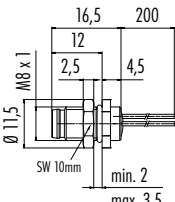
Contacts		Ordering-No.
3		09 3413 150 03
4		09 3415 150 04

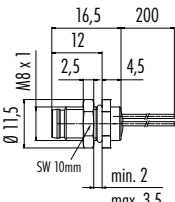
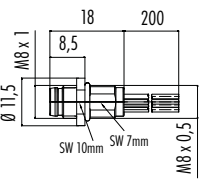
Male receptacle, short version, dip-solder, without LED



Male receptacle, solder/for M8 tube			3	09 3413 00 03
			3 + LED red	09 3413 40 03
			3 + LED yellow	09 3413 41 03
			3 for M8 tube	09 3411 70 03
			4	09 3415 00 04
			4 + LED red	09 3415 40 04
			4 + LED yellow	09 3415 41 04
			4 for M8 tube	09 3389 70 04



Male panel mount connector, with single wires			Contacts	Fastened from back side	Front fastened
			3 x 0,25	09 3403 00 03	09 3403 86 03
			4 x 0,25	09 3391 00 04	09 3391 86 04
			6 x 0,14	09 3463 00 06	09 3463 86 06
			8 x 0,14	09 3487 00 08	09 3487 86 08



fastened from back side

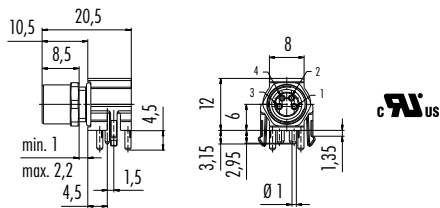
front fastened

Specifications	Panel mount connector				
Contacts	3	4	5	6	8
Wire gauge	0,25 mm² (AWG 24)			0,14 mm² (AWG 26)	
Mechanical operation	> 100 Mating cycles				
Temperature range	−40 °C /+ 85 °C				
Rated voltage	60 V		30 V		
Pollution degree	3				
Rated current (40°C)	4 A			1,5 A	
Contact plating	Au (Gold)				
Material of housing	CuZn (brass nickel plated), zinc diecasting nickel plated				

¹⁾ Standard cable length is 2 m/5 m. Other lengths upon request.

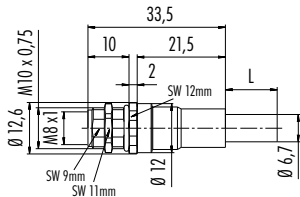


Description	Drawing	Contacts	Ordering-No.
Female angled panel mount connector, front fastened, dip-solder		3	99 3412 282 03
		4	99 3390 282 04



PCB thickness: 1,6 mm

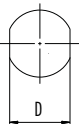
Description	Drawing	Contacts	Cable length	Ordering-No.
Female panel mount connector, front fastened, with Ethernet cable		4	0,5 m	70 3420 005 04



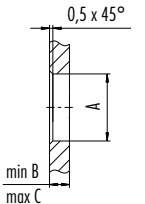
Panel cut out

Panel mount connector

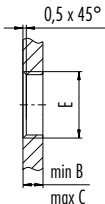
With flats as anti-rotation device



With bore hole



With thread to screw in

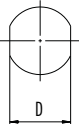


Thread E	A	B	C	D
M8 x 0,5	8,1	2,5	3,5	7,1
M10 x 0,75	10,1	2,5	5,0	9,1

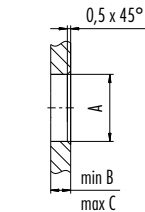
Tightening torque 1 Nm

Panel mount connector, front fastened

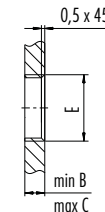
With flats as anti-rotation device



With bore hole



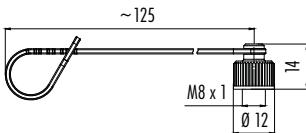
With thread to screw in



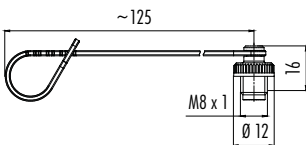
Thread E	A	B	C	D
M8 x 1	8,1	2,0	3,5	7,1
M10 x 0,75	10,1	2,0	6,5	9,1
M12 x 1	12,1	2,5	4,5	10,0

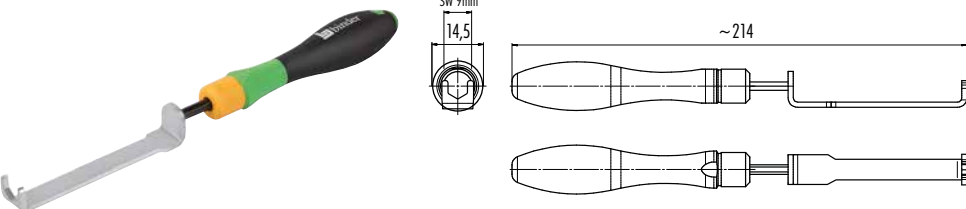
Tightening torque 1 Nm

Description	Drawing	Ordering-No.
Protection cap for male cable connector		08 2840 000 000



Protection cap for female cable connector		08 2841 000 000
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Description	Drawing	Ordering-No.
Protection cap for male panel mount connector		08 2842 000 000
Protection cap for male panel mount connector, for front mounting		08 2972 000 000
Protection cap for female panel mount connector		08 2843 000 000
Protection cap for female panel mount connector, for front mounting		08 2973 000 000
Protection cap for female connector		08 2441 000 000
Dummy plug M10 x 0,75		08 3130 000 000
Hexagonal nut M8 x 0,5		01 0769 001
Mounting tool for M8 locking ring, 0,4 Nm		07 0085 000

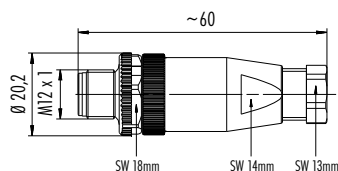


- Screw locking acc. to DIN EN 61076-2-101
 - Degree of protection IP67
 - Moulded versions
 - Easy assembly
 - Excellent EMC shielding
 - Versions with shielding rings/iris type spring
 - Angled connectors adjustable in 4 positions
 - Outdoor versions
- Degree of protection IP68/IP69

Description

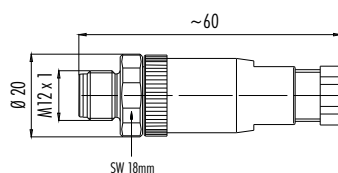
Drawing

Male cable connector, screw clamp, solder termination on contact 12/wire clamp



Contacts	Cable outlet	Screw clamp ¹⁾	Wire clamp
3	4–6 mm	99 0429 07 04	c US
	6–8 mm	99 0429 158 04	c US
	2,5–3,5 mm	99 0429 314 04	–
4	4–6 mm	99 0429 14 04	c US
	6–8 mm	99 0429 12 04	c US
5	4–6 mm	99 0437 14 05	c US
	6–8 mm	99 0437 12 05	c US
8	6–8 mm	99 0487 12 08	c US
12 ¹⁾	6–8 mm	99 0491 12 12	c US

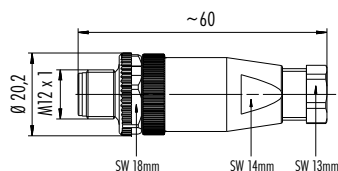
Male cable connector, stainless steel locking ring, screw clamp



4	4–6 mm	99 0429 82 04
	6–8 mm	99 0429 282 04
5	4–6 mm	99 0437 82 05
	6–8 mm	99 0437 282 05
8	6–8 mm	99 0487 282 08

c US

Male cable connector, crimp

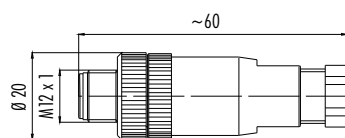


4	4–6 mm	99 0529 14 04
	6–8 mm	99 0529 12 04

c US

Crimp contacts see page 112/143

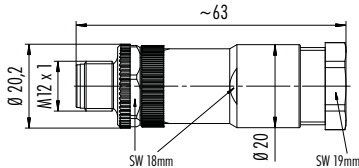
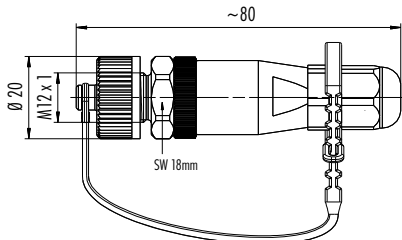
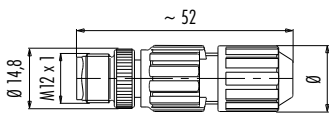
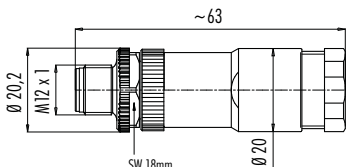
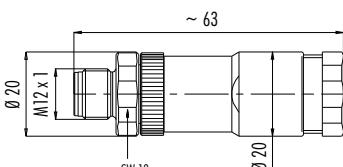
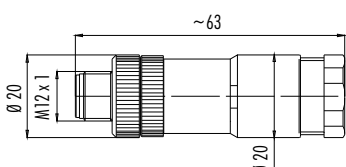
Male cable connector, plastic locking system, screw clamp



4	4–6 mm	99 0429 43 04
	6–8 mm	99 0429 57 04
5	4–6 mm	99 0437 43 05
	6–8 mm	99 0437 57 05

c US

Specifications	Cable connector plastic version				
Contacts	3	4	5	8	12
Wire gauge	max. 0,75 mm² (max. AWG 20), Power max. 1,5 mm² (max. AWG 16), screw clamp 0,14–0,75 mm² (AWG 26–18)			max. 0,5 mm² (max. AWG 20)	max. 0,25 mm² (max. AWG 24)
Mechanical operation	Optalloy > 50 Mating cycles, Gold > 100 Mating cycles			Gold > 100 Mating cycles	
Temperature range	– 40 °C /+ 85 °C, Outdoor – 40 °C /+ 100 °C, screw clamp – 25 °C /+ 80 °C				
Rated voltage	250 V		60 V	30 V	
Pollution degree	3				
Rated current (40°C)	4 A	4 A, Power 8 A	4 A, Power cont. 1-4 8 A, cont. 5 2 A	2 A	1,5 A
Contact plating	screw clamp termination: CuSnZn (Optalloy), others Au (Gold)			Au (Gold)	
Material of housing	PA				

Description	Drawing	Contacts	Cable outlet	Ordering-No.							
Male cable connector, Power	  	4 5	8–10 mm	99 0429 19 04 99 0437 19 05							
Male cable connector, Outdoor, screw clamp, IP68, IP69K	 	4	4–6,5 mm	99 0429 684 04							
Male cable connector, IDT connection	  <table><tr><td>Cable-Ø</td><td>Ø</td></tr><tr><td>3,5–6</td><td>16,3</td></tr><tr><td>4–8</td><td>18,4</td></tr></table>	Cable-Ø	Ø	3,5–6	16,3	4–8	18,4	4	0,14–0,34 mm ² 0,34–0,75 mm ²	3,5–6 mm 4–8 mm	99 0527 14 04 99 0527 12 04
Cable-Ø	Ø										
3,5–6	16,3										
4–8	18,4										
Male cable duo connector, screw clamp	  	4 5 8	2 cables 2,1–3 mm/ 4–5 mm	99 0429 186 04 99 0437 186 05 99 0487 186 08							
Male cable duo connector, stainless steel locking ring, screw clamp	  	4 5 8	2 cables 2,1–3 mm/ 4–5 mm	99 0429 287 04 99 0437 287 05 99 0487 287 08							
Male cable duo connector, plastic locking system, screw clamp	  	4 5	2 cables 2,1–3 mm/ 4–5 mm	99 0429 142 04 99 0437 142 05							

Description	Drawing	Contacts	Cable outlet	Screw clamp ¹⁾	Wire clamp
Male cable connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12		4	4–6 mm 6–8 mm	99 1429 814 04 99 1429 812 04	c 99 1525 814 04 c 99 1525 812 04
		5	4–6 mm 6–8 mm	99 1437 814 05 99 1437 812 05	c 99 1537 814 05 c 99 1537 812 05
		8	6–8 mm 8–10 mm	99 1487 812 08 99 1487 914 08	c – c –
		12 ¹⁾	6–8 mm	99 1491 812 12	c –

Male cable connector, screw clamp/wire clamp, iris type spring, shieldable		4	5–8 mm	99 1431 814 04	c 99 1527 814 04
		5	5–8 mm	99 1439 814 05	c 99 1539 814 05
		8	5–8 mm 8–9 mm	99 1489 814 08 99 1489 812 08	c – c –

Male cable connector, screw clamp, with shielding ring, stainless steel version, shieldable		4	3–5,5 mm 5,5–8,6 mm	99 1429 991 04 99 1429 992 04	
		5	3–5,5 mm 5,5–8,6 mm	99 1437 991 05 99 1437 992 05	
		8	5,5–8,6 mm	99 1487 992 08	

Male cable connector, crimp, shieldable		4	5–8 mm	99 1433 814 04	
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Crimp contacts see page 112/143

Single contact (Male), PU 100 pieces		Wire gauge	AWG	Ordering-No.
		0,14 mm ² – 0,34 mm ²	26–22	61 1224 146
		0,34 mm ² – 0,5 mm ²	22–20	61 1154 146
		0,75 mm ² – 1,0 mm ²	18–16	61 1225 146
		1,0 mm ² – 1,5 mm ²	16	61 1226 146

Specifications	Cable connector metal version			
Contacts	4	5	8	12
Wire gauge	screw clamp max. 0,75 mm² (max. AWG 20), wire clamp max. 0,5 mm² (max. AWG 20)		max. 0,5 mm² (max. AWG 20)	max. 0,25 mm² (max. AWG 24)
Mechanical operation	> 100 Mating cycles			
Temperature range	− 40 °C / + 85 °C			
Rated voltage	250 V	60 V	30 V	
Degree of contamination	3			
Rated current (40°C)	4 A		2 A	1,5 A
Contact plating	Au (Gold)			
Material Housing	straight, shielded version CuZn (brass nickel plated), angled shielded versions zinc diecasting nickel plated			

Description	Drawing	Contacts	Cable outlet	Screw clamp ¹⁾	Wire clamp
Male angled connector, screw clamp, solder termination on contact 12/wire clamp		3	4–6 mm 6–8 mm	99 0429 27 04 99 0429 161 04	c  US –
		4	2,5–3,5 mm 4–6 mm 6–8 mm	99 0429 324 04 99 0429 24 04 99 0429 52 04	– c  US 99 0525 24 04 c  US 99 0525 52 04
		5	4–6 mm 6–8 mm	99 0437 24 05 99 0437 52 05	c  US 99 0537 24 05 c  US 99 0537 52 05
		12 ¹⁾	6–8 mm	99 0491 52 12	c  US –
Male angled connector, stainless steel locking ring, screw clamp		4	4–6 mm 6–8 mm	99 0429 92 04 99 0429 292 04	
		5	4–6 mm 6–8 mm	99 0437 92 05 99 0437 292 05	
Male angled connector, crimp		4	4–6 mm 6–8 mm	99 0529 24 04 99 0529 52 04	
Crimp contacts see page 112/143					
Male angled connector, plastic locking system, screw clamp		4	4–6 mm	99 0429 44 04	
		5	4–6 mm	99 0437 44 05	
Male angled connector, Power		4	8–10 mm	99 0429 58 04	
		5		99 0437 58 05	
	It is possible to turn and fix the contact carrier in 4 different 90° positions				
Duo male angled connector, screw clamp		4	2 cables 2,1–3 mm/	99 0429 286 04	
		5	4–5 mm	99 0437 286 05	

¹⁾Version with solder contacts.

Description

Drawing

Contacts

Cable outlet

Ordering-No.

Duo male angled connector, plastic locking system, screw clamp

4

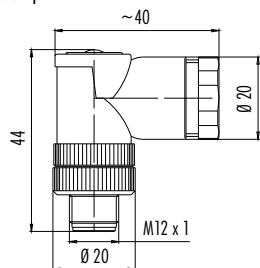
2 cables

99 0429 162 04

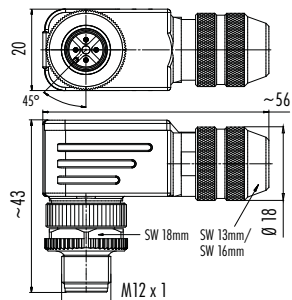
5

2,1–3 mm/
4–5 mm

99 0437 162 05



Male angled connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12



It is possible to turn and fix the contact carrier in 4 different 90° positions

Contacts

Cable outlet

Screw clamp¹⁾

Wire clamp

4

4–6 mm

99 1429 824 04



99 1525 824 04

6–8 mm

99 1429 822 04



99 1525 822 04

5

4–6 mm

99 1437 824 05



99 1537 824 05

6–8 mm

99 1437 822 05



99 1537 822 05

12¹⁾

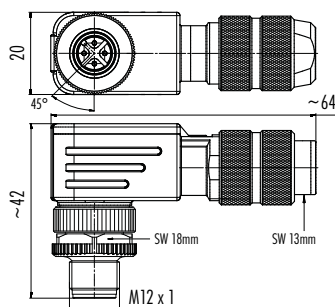
6–8 mm

99 1491 822 12



–

Male angled connector, screw clamp/wire clamp, iris type spring, shieldable



It is possible to turn and fix the contact carrier in 4 different 90° positions

4

5–8 mm

99 1431 824 04



99 1527 824 04

5

5–8 mm

99 1439 824 05



99 1539 824 05

Male angled connector, crimp, shieldable

4

5–8 mm

99 1433 824 04



Crimp contacts see page 112/143

Contact arrangements male insert (mating side)

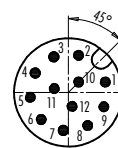
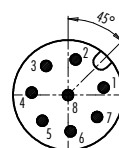
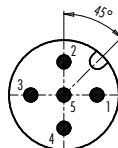
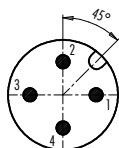
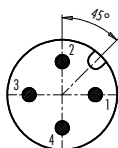
3 contacts

4 contacts

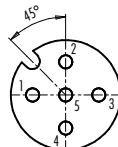
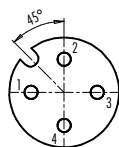
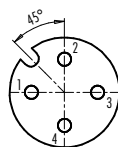
5 contacts/5 contacts CAN-Bus

8 contacts

12 contacts



Contact arrangements female insert (mating side)



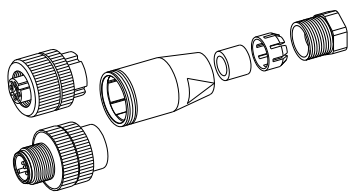
Colour of wire, moulded cable and panel mount connectors

3–5 contacts	5 contacts CAN-Bus	8 contacts	12 contacts
1 brown	1 Shield	1 white	1 brown
2 not connected/white	2 red (AWG 22)	2 brown	2 blue
3 blue	3 black (AWG 22)	3 green	3 white
4 black	4 white (AWG 24)	4 yellow	4 green
5 grey	5 blue (AWG 24)	5 grey	5 pink
		6 pink	6 yellow
		7 blue	7 black
		8 red	8 grey
			9 red
			10 purple
			11 grey/pink
			12 red/blue

Contact 2 is not connected at 3 pole version.
Shielded versions: Shield on housing or at 8 pole version on contact 8.

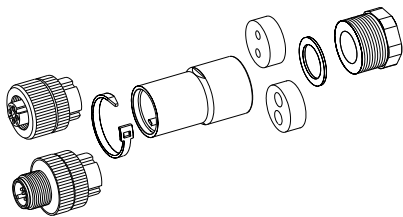
Component part drawing

Cable connectors, not shieldable



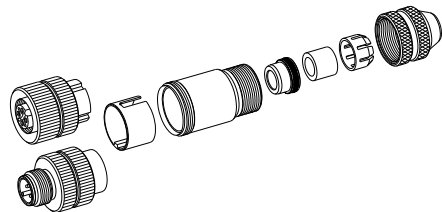
- Female insert/
- Male insert
- Sleeve
- Seal
- Pinch ring
- Pressing screw

Cable duo connectors, not shieldable



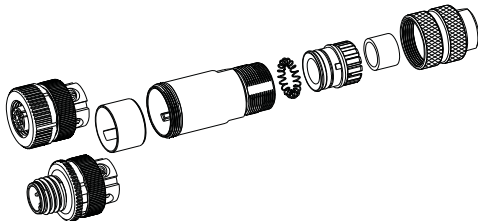
- Female insert/
- Male insert
- Cable binder
- Sleeve
- Seal
- Thrust collar
- Pressing screw

Cable connectors, with shielding ring, shieldable



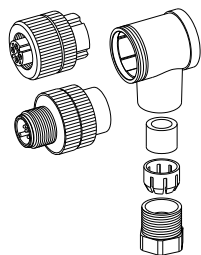
- Female insert/
- Male insert
- Insulating sleeve tightly built into coupling sleeve
- Shielding ring
- O-ring
- Seal
- Pinch ring
- Pressing screw

Cable connectors, with iris type spring, shieldable



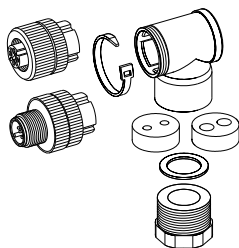
- Female insert/
- Male insert
- Insulating sleeve, Sleeve,
- Pressing spring, O-ring,
- Pinch ring, Seal,
- Pressing screw are premounted

Angled connectors, not shieldable



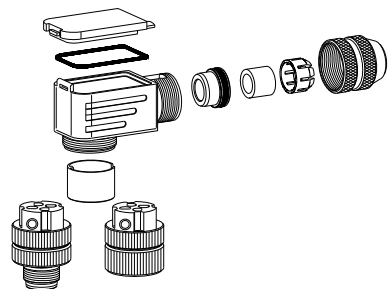
- Female insert/
- Male insert
- Angled housing
- Seal
- Pinch ring
- Pressing screw

Duo male angled connectors, not shieldable



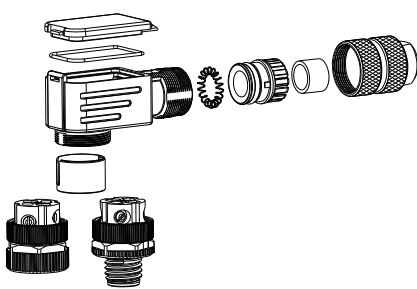
- Female insert/
- Male insert
- Cable binder
- Angled housing
- Seal
- Thrust collar
- Pressing screw

Angled connectors, with shielding ring, shieldable



- Female insert/
- Male insert
- Insulating sleeve tightly built into coupling sleeve
- Housing
- Seal
- Cover
- Shielding ring
- O-ring
- Seal
- Pinch ring
- Pressing screw

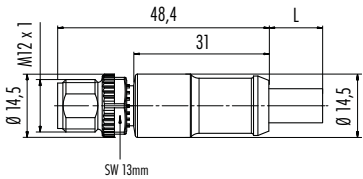
Angled connectors, with iris type spring, shieldable



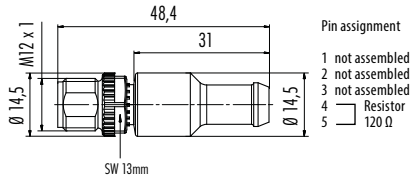
- Female insert/
- Male insert
- Insulating sleeve, Housing,
- Pressing spring, O-ring,
- Pinch ring, Seal,
- Pressing screw are premounted
- O-ring
- Cover

Description	Drawing	Contacts	Cable length	PVC (cable grey) ¹⁾	PUR (cable black) ¹⁾
Male cable connector, moulded, PVC (grey), PUR (black)		3 x 0,34	2 m 5 m	77 3429 0000 20003-0200 77 3429 0000 20003-0500	77 3429 0000 50003-0200 77 3429 0000 50003-0500
		4 x 0,34	2 m 5 m	77 3429 0000 20004-0200 77 3429 0000 20004-0500	77 3429 0000 50004-0200 77 3429 0000 50004-0500
		5 x 0,25	2 m 5 m	77 3429 0000 20005-0200 77 3429 0000 20005-0500	77 3429 0000 50005-0200 77 3429 0000 50005-0500
		8 x 0,25 ²⁾	2 m 5 m	– –	77 3429 0000 50608-0200 77 3429 0000 50608-0500
		8 x 0,25	2 m 5 m	77 3429 0000 20708-0200 77 3429 0000 20708-0500	77 3429 0000 50708-0200 77 3429 0000 50708-0500
		12 x 0,25	2 m 5 m	77 3429 0000 20712-0200 77 3429 0000 20712-0500	77 3429 0000 50712-0200 77 3429 0000 50712-0500
Male cable connector, moulded, shielded, PVC (grey), PUR (black)		3 x 0,34	2 m 5 m	77 3529 0000 20703-0200 77 3529 0000 20703-0500	77 3529 0000 50703-0200 77 3529 0000 50703-0500
		4 x 0,34	2 m 5 m	77 3529 0000 20704-0200 77 3529 0000 20704-0500	77 3529 0000 50704-0200 77 3529 0000 50704-0500
		5 x 0,25	2 m 5 m	77 3529 0000 20705-0200 77 3529 0000 20705-0500	77 3529 0000 50705-0200 77 3529 0000 50705-0500
		8 x 0,25	2 m 5 m	77 3529 0000 20708-0200 77 3529 0000 20708-0500	77 3529 0000 50708-0200 77 3529 0000 50708-0500
Male cable connector, moulded, PUR, for welding application		3 x 0,34	2 m 5 m	77 3429 0000 80003-0200 77 3429 0000 80003-0500	77 3429 0000 80203-0200 77 3429 0000 80203-0500
		4 x 0,34	2 m 5 m	77 3429 0000 80004-0200 77 3429 0000 80004-0500	77 3429 0000 80204-0200 77 3429 0000 80204-0500
		5 x 0,25	2 m 5 m	77 3429 0000 80005-0200 77 3429 0000 80005-0500	77 3429 0000 80205-0200 77 3429 0000 80205-0500
Male cable connector, moulded, PVC (grey), stainless steel locking ring, Food and Beverage		3 x 0,34	2 m 5 m	77 3729 0000 20403-0200 77 3729 0000 20403-0500	
		4 x 0,34	2 m 5 m	77 3729 0000 20404-0200 77 3729 0000 20404-0500	
		5 x 0,34	2 m 5 m	77 3729 0000 20405-0200 77 3729 0000 20405-0500	
		8 x 0,25	2 m 5 m	77 3729 0000 20908-0200 77 3729 0000 20908-0500	
		12 x 0,25	2 m 5 m	77 3729 0000 20912-0200 77 3729 0000 20912-0500	
Male cable connector, moulded, PUR, stainless steel locking ring		3 x 0,34	2 m 5 m		77 3729 0000 50003-0200 77 3729 0000 50003-0500
		4 x 0,34	2 m 5 m		77 3729 0000 50004-0200 77 3729 0000 50004-0500
		5 x 0,25	2 m 5 m		77 3729 0000 50005-0200 77 3729 0000 50005-0500
		8 x 0,25	2 m 5 m		77 3729 0000 50708-0200 77 3729 0000 50708-0500
Male cable connector, moulded, PUR (black), Power		4 x 1,5	2 m 5 m		77 0605 0000 50704-0200 77 0605 0000 50704-0500

Description	Drawing	Contacts	Cable length	Ordering-No. ¹⁾
Male cable connector, CAN-Bus			2 m	77 2529 0000 50705-0200
		5	5 m	77 2529 0000 50705-0500
			10 m	77 2529 0000 50705-1000



Male terminating connector, CAN-Bus	5	–	77 9839 0000 00005
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Specifications	Cable connector, moulded				
Contacts	3	4	5	8	12
Wire gauge	0,34 mm² (AWG 22)		0,34 mm² (AWG 22), 0,25 mm² (AWG 24)	0,25 mm² (AWG 24)	
Mechanical operation	> 100 Mating cycles				
Temperature range	– 25 °C /+ 90 °C (+ 80 °C UL), – 40 °C /+ 105 °C				
Rated voltage	250 V		60 V	30 V	
Pollution degree	3				
Rated current (40°C)	4 A			2 A	1 A
Contact plating	Au (Gold)				
Material of housing	PUR/PP				

¹⁾ Standard cable length is 2 m/5 m. Other lengths upon request.

Description

Drawing

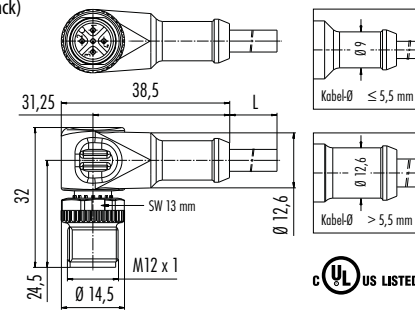
Contacts

Cable length

PVC (cable grey)¹⁾

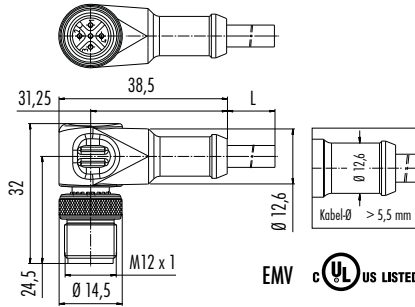
PUR (cable black)¹⁾

Male angled connector, moulded, PVC (grey), PUR (black)



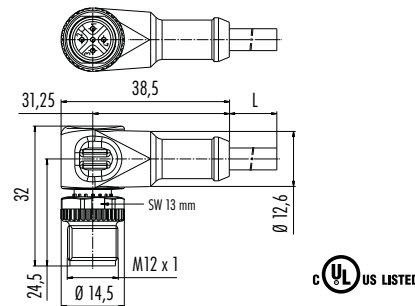
3 x 0,34	2 m	77 3427 0000 20003-0200	77 3427 0000 50003-0200
	5 m	77 3427 0000 20003-0500	77 3427 0000 50003-0500
4 x 0,34	2 m	77 3427 0000 20004-0200	77 3427 0000 50004-0200
	5 m	77 3427 0000 20004-0500	77 3427 0000 50004-0500
5 x 0,25	2 m	77 3427 0000 20005-0200	77 3427 0000 50005-0200
	5 m	77 3427 0000 20005-0500	77 3427 0000 50005-0500
8 x 0,25 ²⁾	2 m	—	77 3427 0000 50608-0200
	5 m	—	77 3427 0000 50608-0500
8 x 0,25	2 m	77 3427 0000 20708-0200	77 3427 0000 50708-0200
	5 m	77 3427 0000 20708-0500	77 3427 0000 50708-0500
12 x 0,25	2 m	77 3427 0000 20712-0200	77 3427 0000 50712-0200
	5 m	77 3427 0000 20712-0500	77 3427 0000 50712-0500

Male angled connector, moulded, shielded, PVC (grey), PUR (black)



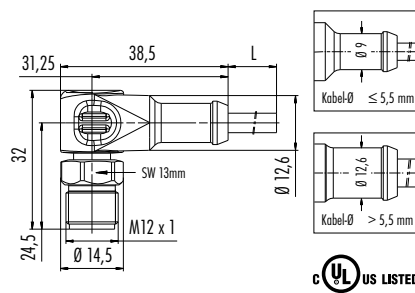
3 x 0,34	2 m	77 3527 0000 20703-0200	77 3527 0000 50703-0200
	5 m	77 3527 0000 20703-0500	77 3527 0000 50703-0500
4 x 0,34	2 m	77 3527 0000 20704-0200	77 3527 0000 50704-0200
	5 m	77 3527 0000 20704-0500	77 3527 0000 50704-0500
5 x 0,25	2 m	77 3527 0000 20705-0200	77 3527 0000 50705-0200
	5 m	77 3527 0000 20705-0500	77 3527 0000 50705-0500
8 x 0,25	2 m	77 3527 0000 20708-0200	77 3527 0000 50708-0200
	5 m	77 3527 0000 20708-0500	77 3527 0000 50708-0500

Male angled connector, moulded, PUR, for welding application



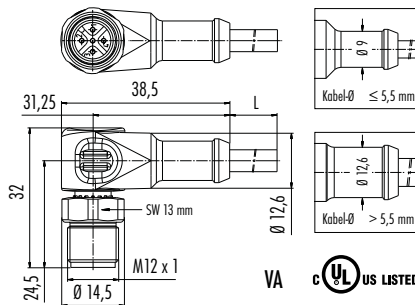
3 x 0,34	2 m	77 3427 0000 80003-0200	77 3427 0000 80203-0200
	5 m	77 3427 0000 80003-0500	77 3427 0000 80203-0500
4 x 0,34	2 m	77 3427 0000 80004-0200	77 3427 0000 80204-0200
	5 m	77 3427 0000 80004-0500	77 3427 0000 80204-0500
5 x 0,25	2 m	77 3427 0000 80005-0200	77 3427 0000 80205-0200
	5 m	77 3427 0000 80005-0500	77 3427 0000 80205-0500

Male angled connector, moulded, PVC (grey), stainless steel locking ring, Food and Beverage



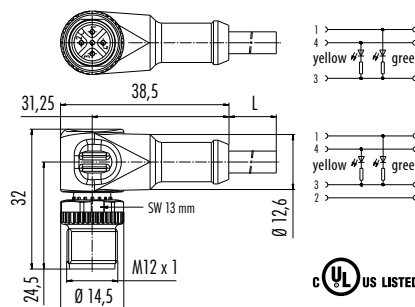
3 x 0,34	2 m	77 3727 0000 20403-0200	
	5 m	77 3727 0000 20403-0500	
4 x 0,34	2 m	77 3727 0000 20404-0200	
	5 m	77 3727 0000 20404-0500	
5 x 0,34	2 m	77 3727 0000 20405-0200	
	5 m	77 3727 0000 20405-0500	
8 x 0,25	2 m	77 3727 0000 20908-0200	
	5 m	77 3727 0000 20908-0500	
12 x 0,25	2 m	77 3727 0000 20912-0200	
	5 m	77 3727 0000 20912-0500	

Male angled connector, moulded, PUR, stainless steel locking ring



3 x 0,34	2 m		77 3727 0000 50003-0200
	5 m		77 3727 0000 50003-0500
4 x 0,34	2 m		77 3727 0000 50004-0200
	5 m		77 3727 0000 50004-0500
5 x 0,25	2 m		77 3727 0000 50005-0200
	5 m		77 3727 0000 50005-0500
8 x 0,25	2 m		77 3727 0000 50708-0200
	5 m		77 3727 0000 50708-0500

Male angled connector, moulded, PVC (grey), PUR (black), with LED, PNP

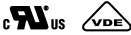
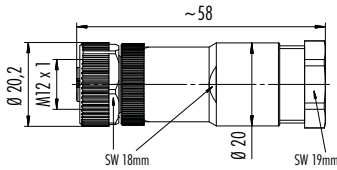


3 x 0,34	2 m	77 3627 0000 20003-0200	77 3627 0000 50003-0200
	5 m	77 3627 0000 20003-0500	77 3627 0000 50003-0500
4 x 0,34	2 m	77 3627 0000 20004-0200	77 3627 0000 50004-0200
	5 m	77 3627 0000 20004-0500	77 3627 0000 50004-0500

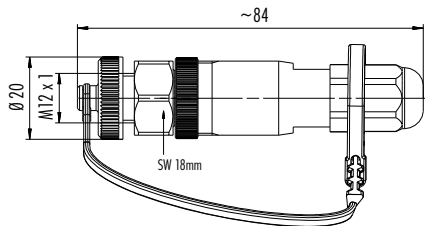
Description	Drawing	Contacts	Cable outlet	Screw clamp ¹⁾	Wire clamp
Female cable connector, screw clamp, solder termination on contact 12/wire clamp		3	4–6 mm	99 0430 07 04	c ¹⁾  US –
			6–8 mm	99 0430 158 04	c ¹⁾  US –
			2,5–3,5 mm	99 0430 314 04	–
		4	4–6 mm	99 0430 14 04	c ¹⁾  US 99 0524 14 04
			6–8 mm	99 0430 12 04	c ¹⁾  US 99 0524 12 04
		5	4–6 mm	99 0436 14 05	c ¹⁾  US 99 0536 14 05
			6–8 mm	99 0436 12 05	c ¹⁾  US 99 0536 12 05
		8	6–8 mm	99 0486 12 08	c ¹⁾  US –
		12 ¹⁾	6–8 mm	99 0492 12 12	c ¹⁾  US –
Female cable connector, stainless steel locking ring, screw clamp		4	4–6 mm	99 0430 82 04	
			6–8 mm	99 0430 282 04	
		5	4–6 mm	99 0436 82 05	
			6–8 mm	99 0436 282 05	
		8	6–8 mm	99 0486 282 08	
Female cable connector, crimp		4	4–6 mm	99 0530 14 04	
			6–8 mm	99 0530 12 04	
		Crimp contacts see page 121/143			
Female cable connector, plastic locking system, screw clamp		4	4–6 mm	99 0430 10 04	
			6–8 mm	99 0430 30 04	transparent housing
			6–8 mm	99 0430 57 04	
		5	4–6 mm	99 0436 10 05	
			6–8 mm	99 0436 57 05	

¹⁾Version with solder contacts.

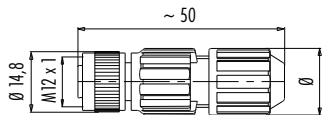
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, Power		4	8–10 mm	99 0430 19 04
		5		99 0436 19 05



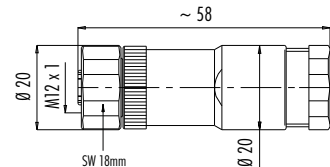
Female cable connector, Outdoor, screw clamp, IP68, IP69K	4	4–6,5 mm	99 0430 684 04
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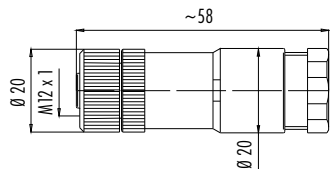
Female cable connector, IDT connection	Contacts	Wire gauge	Cable outlet	Ordering-No.
	4	0,14–0,34 mm ² 0,34–0,75 mm ²	3,5–6 mm 4–8 mm	99 0528 14 04 99 0528 12 04



Female cable duo connector, stainless steel locking ring, screw clamp	Contacts	Cable outlet	Ordering-No.
	4	2 cables	99 0430 287 04
	5	2,1–3 mm/ 4–5 mm	99 0436 287 05 99 0486 287 08



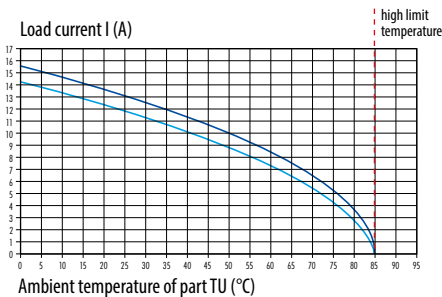
Female cable duo connector, plastic locking system, screw clamp	4	2 cables	99 0430 142 04
	5	2,1–3 mm/ 4–5 mm	99 0436 142 05

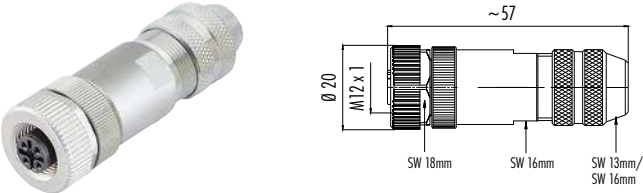


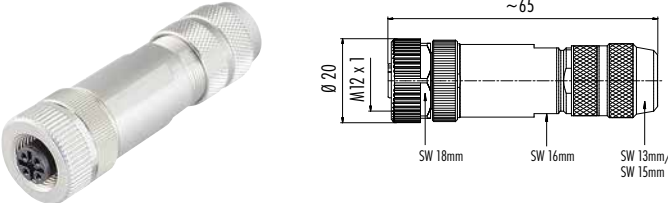
Rating

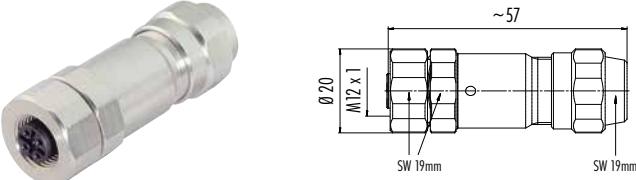
Derating curve according to DIN EN 60512 for **Power-Cable connector**

■ 4 contacts
■ 5 contacts



Description	Drawing	Contacts	Cable outlet	Screw clamp ¹⁾	Wire clamp
Female cable connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12		4	4–6 mm	99 1430 814 04	 99 1526 814 04
			6–8 mm	99 1430 812 04	 99 1526 812 04
		5	4–6 mm	99 1436 814 05	 99 1538 814 05
			6–8 mm	99 1436 812 05	 99 1538 812 05
		8	6–8 mm	99 1486 812 08	 –
			8–10 mm	99 1486 914 08	 –
		12 ¹⁾	6–8 mm	99 1492 812 12	 –

Female cable connector, screw clamp/wire clamp, iris type spring, shieldable		4	5–8 mm	99 1432 814 04	 99 1528 814 04
		5	5–8 mm	99 1438 814 05	 99 1540 814 05
		8	5–8 mm	99 1488 814 08	 –
			8–9 mm	99 1488 812 08	 –

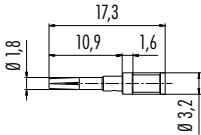
Female cable connector, screw clamp, with shielding ring, stainless steel version, shieldable		4	3–5,5 mm	99 1430 991 04	
			5,5–8,6 mm	99 1430 992 04	
		5	3–5,5 mm	99 1436 991 05	
			5,5–8,6 mm	99 1436 992 05	
		8	5,5–8,6 mm	99 1486 992 08	



Female cable connector, crimp, shieldable	4	5–8 mm	99 1434 814 04
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Crimp contacts see page 121/143	Wire gauge	AWG	Ordering-No.
Single contact (Female), PU 100 pieces	0,14 mm ² – 0,34 mm ²	26–22	61 1227 146
	0,34 mm ² – 0,5 mm ²	22–20	61 1155 146
	0,75 mm ² – 1,0 mm ²	18–16	61 1228 146
	1,0 mm ² – 1,5 mm ²	16	61 1229 146



Description

Drawing

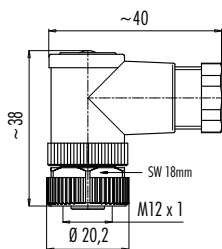
Contacts

Cable outlet

Screw clamp ¹⁾

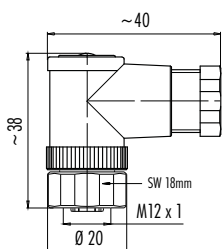
Wire clamp

Female angled connector, screw clamp, solder termination on contact 12/wire clamp



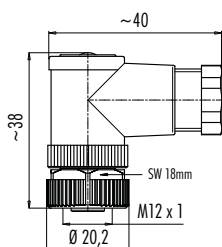
3	4–6 mm	99 0430 27 04	c ¹⁾	–
	6–8 mm	99 0430 161 04	c ¹⁾	–
	2,5–3,5 mm	99 0430 324 04		–
4	4–6 mm	99 0430 24 04	c ¹⁾	99 0524 24 04
	6–8 mm	99 0430 52 04	c ¹⁾	99 0524 52 04
	4–6 mm	99 0436 24 05	c ¹⁾	99 0536 24 05
5	6–8 mm	99 0436 52 05	c ¹⁾	99 0536 52 05
	6–8 mm	99 0492 52 12	c ¹⁾	–

Female angled connector, stainless steel locking ring, screw clamp



4	4–6 mm	99 0430 92 04		
	6–8 mm	99 0430 292 04		
5	4–6 mm	99 0436 92 05		
	6–8 mm	99 0436 292 05		

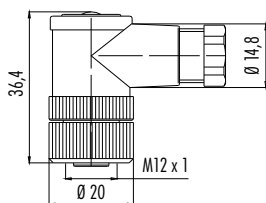
Female angled connector, crimp



4	4–6 mm	99 0530 24 04		
	6–8 mm	99 0530 52 04		

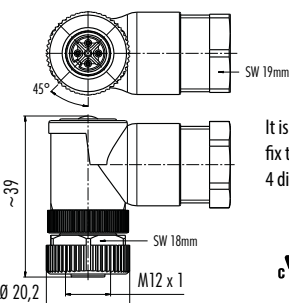
Crimp contacts see page 121/143

Female angled connector, plastic locking system, screw clamp



4	4–6 mm	99 0430 00 04		
		99 0430 20 04	transparent housing	
	6–8 mm	99 0430 69 04		
5		99 0430 68 04	transparent housing	
	4–6 mm	99 0436 00 05		
	6–8 mm	99 0436 69 05		

Female angled connector, Power

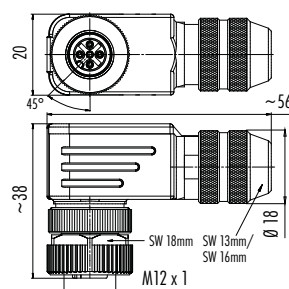


It is possible to turn and fix the contact carrier in 4 different 90° positions



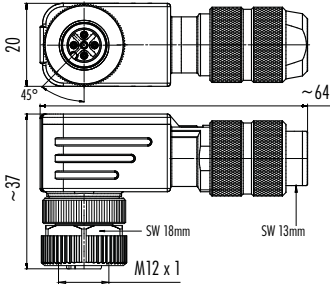
4	8–10 mm	99 0430 58 04	c ¹⁾	
5		99 0436 58 05		

Female angled connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12



It is possible to turn and fix the contact carrier in 4 different 90° positions

Contacts	Cable outlet	Screw clamp ¹⁾	Wire clamp
4	4–6 mm	99 1430 824 04	99 1526 824 04
	6–8 mm	99 1430 822 04	c ¹⁾ 99 1526 822 04
5	4–6 mm	99 1436 824 05	c ¹⁾ 99 1538 824 05
	6–8 mm	99 1436 822 05	c ¹⁾ 99 1538 822 05
12 ¹⁾	6–8 mm	99 1492 822 12	c ¹⁾ –

Description	Drawing	Contacts	Cable outlet	Screw clamp	Wire clamp
Female angled connector, screw clamp/wire clamp, iris type spring, shieldable		4	5–8 mm	99 1432 824 04	 99 1528 824 04
		5	5–8 mm	99 1438 824 05	 99 1540 824 05



It is possible to turn and fix the contact carrier in 4 different 90° positions

Female angled connector, crimp, shieldable	4	5–8 mm	99 1434 824 04
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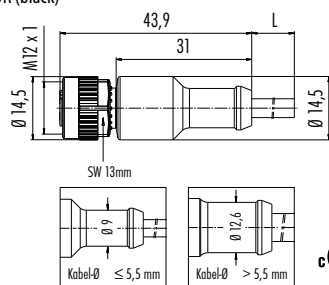
Crimp contacts see page 121/143



Description

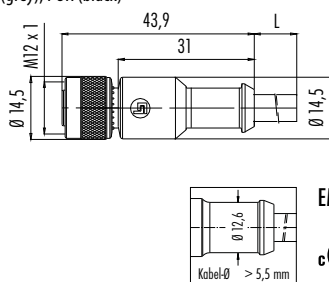
Drawing

Female cable connector, moulded, PVC (grey), PUR (black)



UL US LISTED

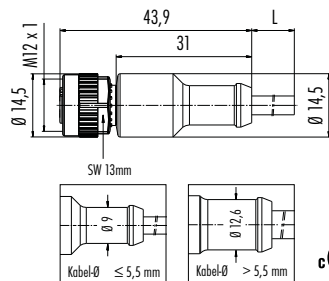
Female cable connector, moulded, shielded, PVC (grey), PUR (black)



EMV

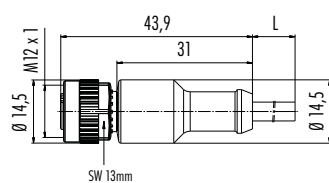
UL US LISTED

Female cable connector, moulded, 120 °C



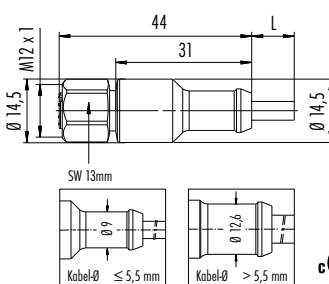
UL US LISTED

Female cable connector, moulded, PUR, for welding application



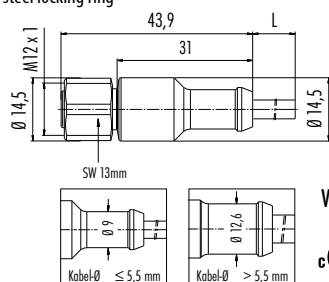
UL US LISTED

Female cable connector, moulded, PVC (grey), stainless steel locking ring, Food and Beverage



UL US LISTED

Female cable connector, moulded, PUR, stainless steel locking ring



VA

UL US LISTED

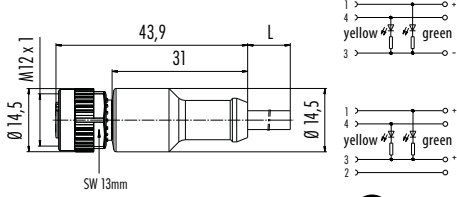
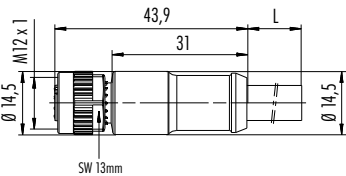
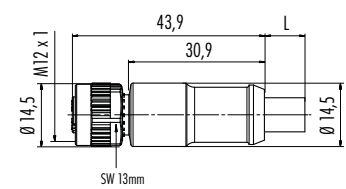
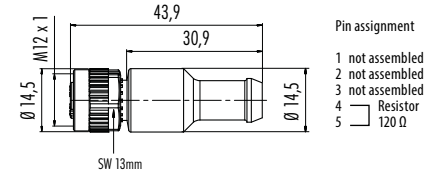
Contacts	Cable length	PVC (cable grey) ¹⁾	PUR (cable black) ¹⁾
3 x 0,34	2 m	77 3430 0000 20003-0200	77 3430 0000 50003-0200
	5 m	77 3430 0000 20003-0500	77 3430 0000 50003-0500
4 x 0,34	2 m	77 3430 0000 20004-0200	77 3430 0000 50004-0200
	5 m	77 3430 0000 20004-0500	77 3430 0000 50004-0500
5 x 0,25	2 m	77 3430 0000 20005-0200	77 3430 0000 50005-0200
	5 m	77 3430 0000 20005-0500	77 3430 0000 50005-0500
8 x 0,25 ²⁾	2 m	—	77 3430 0000 50608-0200
	5 m	—	77 3430 0000 50608-0500
8 x 0,25	2 m	77 3430 0000 20708-0200	77 3430 0000 50708-0200
	5 m	77 3430 0000 20708-0500	77 3430 0000 50708-0500
12 x 0,25	2 m	77 3430 0000 20712-0200	77 3430 0000 50712-0200
	5 m	77 3430 0000 20712-0500	77 3430 0000 50712-0500

Contacts	Cable length	PUR (cable black) ¹⁾
3 x 0,34	2 m	77 3530 0000 20703-0200
	5 m	77 3530 0000 20703-0500
4 x 0,34	2 m	77 3530 0000 20704-0200
	5 m	77 3530 0000 20704-0500
5 x 0,25	2 m	77 3530 0000 20705-0200
	5 m	77 3530 0000 20705-0500
8 x 0,25	2 m	77 3530 0000 20708-0200
	5 m	77 3530 0000 20708-0500

Contacts	Cable length	PUR (cable orange) ¹⁾	PUR (cable black) ¹⁾
3 x 0,34	2 m	77 3430 0000 80003-0200	77 3430 0000 80203-0200
	5 m	77 3430 0000 80003-0500	77 3430 0000 80203-0500
4 x 0,34	2 m	77 3430 0000 80004-0200	77 3430 0000 80204-0200
	5 m	77 3430 0000 80004-0500	77 3430 0000 80204-0500
5 x 0,25	2 m	77 3430 0000 80005-0200	77 3430 0000 80205-0200
	5 m	77 3430 0000 80005-0500	77 3430 0000 80205-0500

Contacts	Cable length	PVC (cable grey) ¹⁾
3 x 0,34	2 m	77 3730 0000 20403-0200
	5 m	77 3730 0000 20403-0500
4 x 0,34	2 m	77 3730 0000 20404-0200
	5 m	77 3730 0000 20404-0500
5 x 0,34	2 m	77 3730 0000 20405-0200
	5 m	77 3730 0000 20405-0500
8 x 0,25	2 m	77 3730 0000 20908-0200
	5 m	77 3730 0000 20908-0500
12 x 0,25	2 m	77 3730 0000 20912-0200
	5 m	77 3730 0000 20912-0500

Contacts	Cable length	PUR (cable black) ¹⁾
3 x 0,34	2 m	77 3730 0000 50003-0200
	5 m	77 3730 0000 50003-0500
4 x 0,34	2 m	77 3730 0000 50004-0200
	5 m	77 3730 0000 50004-0500
5 x 0,25	2 m	77 3730 0000 50005-0200
	5 m	77 3730 0000 50005-0500
8 x 0,25	2 m	77 3730 0000 50708-0200
	5 m	77 3730 0000 50708-0500

Description	Drawing	Contacts	Cable length	PVC (cable grey) ¹⁾	PUR (cable black) ¹⁾
Female cable connector, moulded, PVC (grey), PUR (black), with LED, PNP	  	3 x 0,34	2 m	77 3630 0000 20003-0200	77 3630 0000 50003-0200
			5 m	77 3630 0000 20003-0500	77 3630 0000 50003-0500
		4 x 0,34	2 m	77 3630 0000 20004-0200	77 3630 0000 50004-0200
			5 m	77 3630 0000 20004-0500	77 3630 0000 50004-0500
Female cable connector, moulded, PUR (black), Power	  	4 x 1,5	2 m	PUR (cable black) ¹⁾ 77 0606 0000 50704-0200	
			5 m	77 0606 0000 50704-0500	
Female cable connector, CAN-Bus	  	5	2 m	Ordering-No. ¹⁾ 77 2530 0000 50705-0200	
			5 m	77 2530 0000 50705-0500	
			10 m	77 2530 0000 50705-1000	
Female terminating connector, CAN-Bus	 	5	–	77 9840 0000 00005	

¹⁾ Standard cable length is 2 m/5 m. Other lengths upon request.

Specifications	Standard Cable									
Contacts	3		4		5		8		12	
Wire gauge	3 x 0,34 mm² (AWG 22)		4 x 0,34 mm² (AWG 22)		5 x 0,34 mm² (AWG 24)		8 x 0,25 mm² (AWG 24)		12 x 0,25 mm² (AWG 24)	
Material jacket	PVC	PUR	PVC	PUR	PVC	PUR	PVC	PUR	PVC	PUR
Insulation of wire	PVC	PP	PVC	PP	PVC	PP	PVC	PP	PVC	PP
Design of wire (mm)	42 x 0,1						32 x 0,1			
Cable diameter (mm)	4,5	4,3	4,8	4,7	4,8	4,7	6		6,6	6,5
Temperature range cable in move	PVC: – 5 °C /+ 105 °C PUR: – 25 °C /+ 90 °C (in chain flex application + 60 °C)									
Temperature range cable fixed	PVC: – 40 °C /+ 105 °C PUR: – 50 °C /+ 90 °C									
Bending radius (at 10 x D)	2 Mio.	5 Mio.	2 Mio.	5 Mio.	2 Mio.	5 Mio.	2 Mio.			
Approval	UL/CSA									
UL-style	PVC: AWM 2517 PUR: AWM 20549									
Chain flex application	bending radius min. 10 x D, permitted acceleration 5 m/s²									

Specifications	Shielded cable							
Contacts	3		4		5		8	
Wire gauge	3 x 0,34 mm² (AWG 22)		4 x 0,34 mm² (AWG 22)		5 x 0,25 mm² (AWG 24)		8 x 0,25 mm² (AWG 24)	
Material jacket	PVC	PUR	PVC	PUR	PVC	PUR	PVC	PUR
Insulation of wire	PVC	PP	PVC	PP	PVC	PP	PVC	PP
Design of wire (mm)	42 x 0,1				32 x 0,1			
Cable diameter (mm)	5	4,6	5,4	4,7	5,7	4,8	6,8	6
Temperature range cable in move	PVC: – 5 °C /+ 105 °C PUR: – 25 °C /+ 90 °C (in chain flex application + 60 °C)							
Temperature range cable fixed	PVC: – 20 °C /+ 105 °C PUR: – 50 °C /+80 °C				PVC: – 40 °C /+ 105 °C PUR: – 50 °C /+80 °C			
Bending radius (at 10 x D)	2 Mio.							
Approval	UL/CSA							
Cover screen grid	85 %							
Chain flex application	bending radius min. 10 x D, permitted acceleration 5 m/s²							

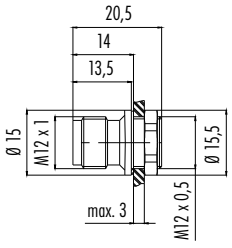
Specifications	CAN-Bus Cable				
Contacts	5				
Wire gauge	1 x 2 x AWG 22 and 1 x 2 x AWG 24				
Material jacket	PUR				
Insulation of wire	Polyolefine				
Design of wire (mm)	19 x 0,16/19 x 0,13				
Cable diameter (mm)	7,2				
UL-style	AWM 1581, AWM 444				

Description	Drawing	Contacts	Cable length	PVC (cable grey) ¹⁾	PUR (cable black) ¹⁾
Female angled connector, moulded, PVC (grey), PUR (black)		3 x 0,34 4 x 0,34 5 x 0,25 8 x 0,25 ²⁾ 8 x 0,25 12 x 0,25	2 m 5 m 2 m 5 m 2 m 5 m	77 3434 0000 20003-0200 77 3434 0000 20003-0500 77 3434 0000 20004-0200 77 3434 0000 20004-0500 77 3434 0000 20005-0200 77 3434 0000 20005-0500 77 3434 0000 20708-0200 77 3434 0000 20708-0500 77 3434 0000 20712-0200 77 3434 0000 20712-0500	77 3434 0000 50003-0200 77 3434 0000 50003-0500 77 3434 0000 50004-0200 77 3434 0000 50004-0500 77 3434 0000 50005-0200 77 3434 0000 50005-0500 77 3434 0000 50608-0200 77 3434 0000 50608-0500 77 3434 0000 50708-0200 77 3434 0000 50712-0200 77 3434 0000 50712-0500
Female angled connector, moulded, shielded, PVC (grey), PUR (black)		3 x 0,34 4 x 0,34 5 x 0,25 8 x 0,25	2 m 5 m 2 m 5 m	77 3534 0000 20703-0200 77 3534 0000 20703-0500 77 3534 0000 20704-0200 77 3534 0000 20704-0500 77 3534 0000 20705-0200 77 3534 0000 20705-0500 77 3534 0000 20708-0200 77 3534 0000 20708-0500	77 3534 0000 50703-0200 77 3534 0000 50703-0500 77 3534 0000 50704-0200 77 3534 0000 50704-0500 77 3534 0000 50705-0200 77 3534 0000 50705-0500 77 3534 0000 50708-0200 77 3534 0000 50708-0500
Female angled connector, moulded, 120 °C		3 x 0,34 4 x 0,34	2 m 5 m 2 m 5 m		77 3434 0000 70003-0200 77 3434 0000 70003-0500 77 3434 0000 70004-0200 77 3434 0000 70004-0500
Female angled connector, moulded, PUR, for welding application		3 x 0,34 4 x 0,34 5 x 0,25	2 m 5 m 2 m 5 m	77 3434 0000 80003-0200 77 3434 0000 80003-0500 77 3434 0000 80004-0200 77 3434 0000 80004-0500 77 3434 0000 80005-0200 77 3434 0000 80005-0500	77 3434 0000 80203-0200 77 3434 0000 80203-0500 77 3434 0000 80204-0200 77 3434 0000 80204-0500 77 3434 0000 80205-0200 77 3434 0000 80205-0500
Female angled connector, moulded, PVC (grey), stainless steel locking ring, Food and Beverage		3 x 0,34 4 x 0,34 5 x 0,34 8 x 0,25 12 x 0,25	2 m 5 m 2 m 5 m 2 m 5 m	77 3734 0000 20403-0200 77 3734 0000 20403-0500 77 3734 0000 20404-0200 77 3734 0000 20404-0500 77 3734 0000 20405-0200 77 3734 0000 20405-0500 77 3734 0000 20908-0200 77 3734 0000 20908-0500 77 3734 0000 20912-0200 77 3734 0000 20912-0500	
Female angled connector, moulded, PUR, stainless steel locking ring		3 x 0,34 4 x 0,34 5 x 0,25 8 x 0,25	2 m 5 m 2 m 5 m		77 3734 0000 50003-0200 77 3734 0000 50003-0500 77 3734 0000 50004-0200 77 3734 0000 50004-0500 77 3734 0000 50005-0200 77 3734 0000 50005-0500 77 3734 0000 50708-0200 77 3734 0000 50708-0500

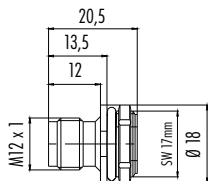
¹⁾ Standard cable length is 2 m/5 m. Other lengths upon request. ²⁾ Shielded cable, shield on contact 8.

M12 A-Coding

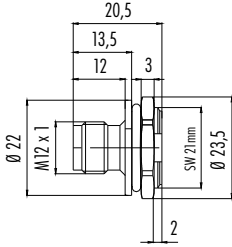
Description	Drawing	Contacts	Cable length	PUR (cable black) ¹⁾	
Female angled connector, moulded, PUR, stainless steel locking ring, with LED, PNP		3 x 0,34	2 m LED, PNP	77 3834 0000 50003-0200	
			5 m LED, PNP	77 3834 0000 50003-0500	
Female angled connector, moulded, PVC (grey), PUR (black), with LED, PNP		3 x 0,34	2 m	77 3634 0000 20003-0200	77 3634 0000 50003-0200
			5 m	77 3634 0000 20003-0500	77 3634 0000 50003-0500
		4 x 0,34	2 m	77 3634 0000 20004-0200	77 3634 0000 50004-0200
			5 m	77 3634 0000 20004-0500	77 3634 0000 50004-0500

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, fixing thread, solder		4	M12 x 0,5	09 0431 81 04
		5		09 0433 81 05
		8		09 0381 81 08

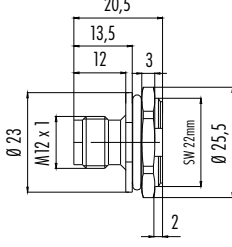


Male panel mount connector, fixing thread, solder		4	PG 9	86 4231 1002 00004
			M16 x 1,5	86 4331 1002 00004
		5	PG 9	86 4231 1002 00005
			M16 x 1,5	86 4331 1002 00005
		8	PG 9	86 4231 1002 00008
			M16 x 1,5	86 4331 1002 00008

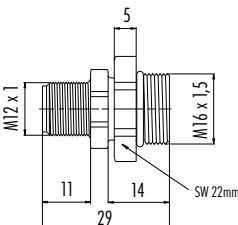


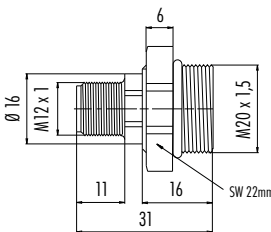
Male panel mount connector, fixing thread, solder		4	PG 11	09 0435 87 04
		5		09 0437 87 05



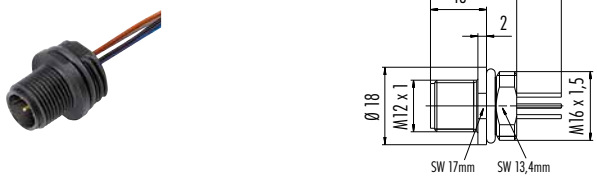
Male panel mount connector, fixing thread, solder		4	PG 13,5	86 4531 1002 00004
			M20 x 1,5	86 4631 1002 00004
		5	PG 13,5	86 4531 1002 00005
			M20 x 1,5	86 4631 1002 00005



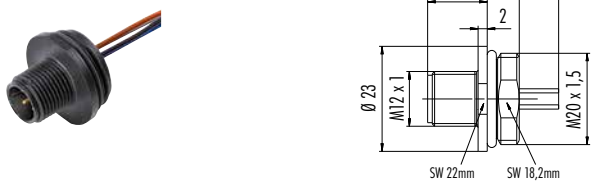
Male panel mount connector, metric fixing thread, positioning possible, solder		4	M16 x 1,5	09 0431 397 04
			M20 x 1,5	09 0439 397 04



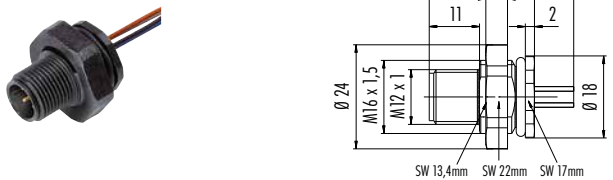
Specifications	Panel mount connector			
Contacts	4	5	8	12
Wire gauge	max. 0,25 mm² (max. AWG 24), single wires AWG 24 (0,25 mm²), Power: max. 1,5 mm² (max. AWG 16), single wires AWG 18			AWG 26 (0,14 mm²)
Mechanical operation	> 100 Mating cycles			
Temperature range	– 40 °C /+ 85 °C			
Rated voltage	250 V	60 V (125 V UL)	30 V (60 V UL)	30 V
Pollution degree	3			
Rated current (40°C)	4 A (3 A UL), Power 8 A	4 A (3 A UL), Power cont. 1-4 8 A, cont. 5 2 A	1,5 A (2 A UL)	
Contact plating	Au (Gold)			
Material of housing	PA, zinc diecasting nickel plated			

Description	Drawing	Contacts	Ordering-No. ¹⁾
Male panel mount connector with single wires, AWG 24, M16 x 1,5, plastic housing		4 5 8 12	76 4331 0011 00004-0200 76 4331 0011 00005-0200 76 4331 0011 00008-0200 76 4331 0111 00012-0200



Male panel mount connector with single wires, AWG 24, M20 x 1,5, plastic housing		4 5 8 12	76 4631 0011 00004-0200 76 4631 0011 00005-0200 76 4631 0011 00008-0200 76 4631 0111 00012-0200
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Male panel mount connector, front fastened, with single wires, AWG 24, M16 x 1,5, plastic housing		4 5 8 12	76 4731 3011 00004-0200 76 4731 3011 00005-0200 76 4731 3011 00008-0200 76 4731 3111 00012-0200
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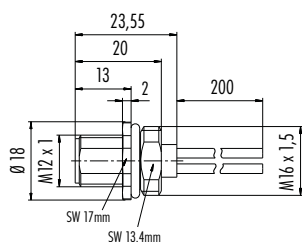
Description	Contacts	Fixing thread	Contact insert	Ordering-No. ¹⁾
Male panel mount connector with single wires, AWG 24, metal housing	4	M16 x 1,5 (AWG24)	black purple orange yellow green red blue	76 0231 0011 00004-0200 76 0231 0011 00104-0200 76 0231 0011 00204-0200 76 0231 0011 00304-0200 76 0231 0011 00404-0200 76 0231 0011 00504-0200 76 0231 0011 00604-0200
	5	M16 x 1,5 (AWG24)	black purple orange yellow green red blue	76 0231 0011 00005-0200 76 0231 0011 00105-0200 76 0231 0011 00205-0200 76 0231 0011 00305-0200 76 0231 0011 00405-0200 76 0231 0011 00505-0200 76 0231 0011 00605-0200

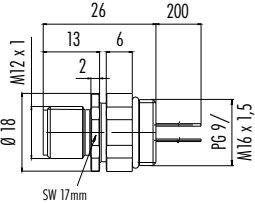


Male panel mount connector with single wires/Power with single wires, metal housing	4	PG 9 PG 9 Stainless steel PG 9 Power M16 x 1,5 Stainless steel PG 9		76 0131 0011 00004-0200 76 2131 0111 00004-0200 09 3431 433 04 
	5	PG 9 Stainless steel PG 9 Power M16 x 1,5 Stainless steel PG 9	black	76 2131 0111 00005-0200 09 3441 433 05 
	8	M16 x 1,5 PG 9 Stainless steel M16 x 1,5 Stainless steel PG 9		76 0231 0011 00008-0200 76 2131 0111 00008-0200 76 2231 0111 00008-0200 76 0131 0111 00012-0200
	12	M16 x 1,5		76 0231 0111 00012-0200



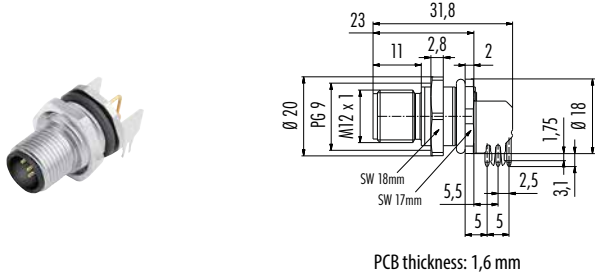
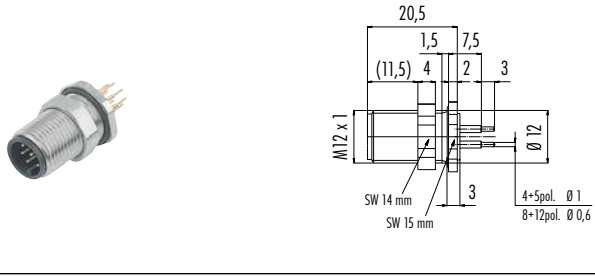
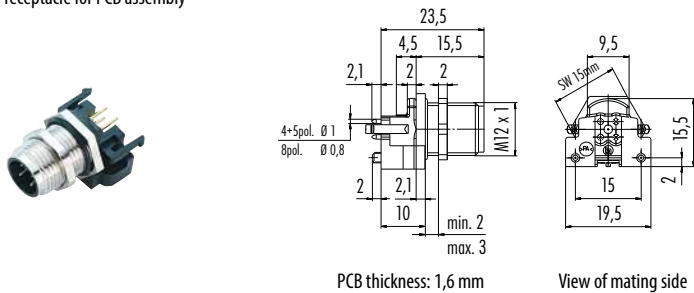
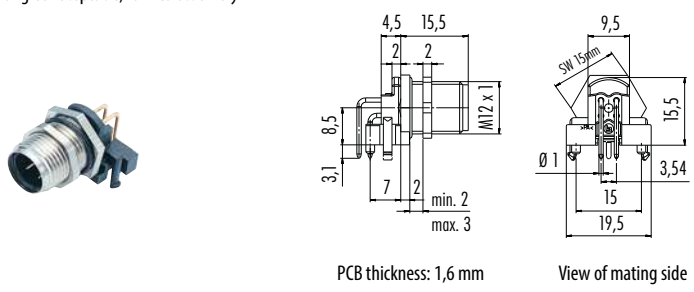
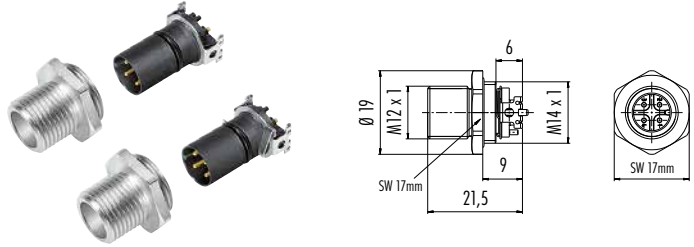
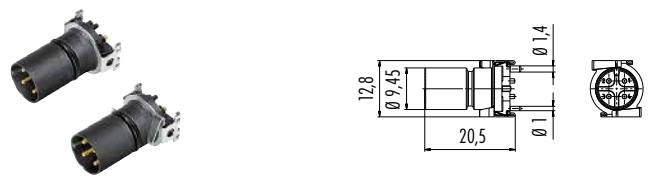
Male panel mount connector with single wires, AWG 16, Power	4	M16 x 1,5	black	76 0231 0015 00004-0200
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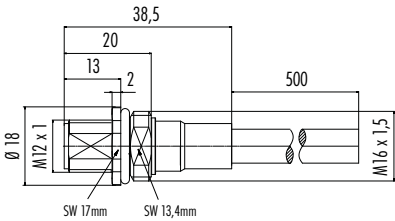
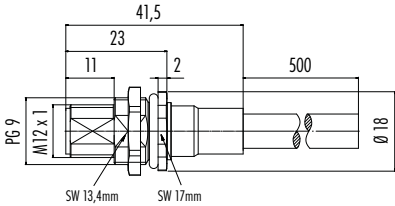


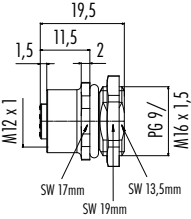
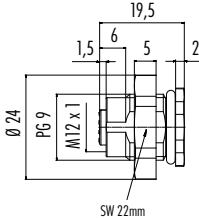
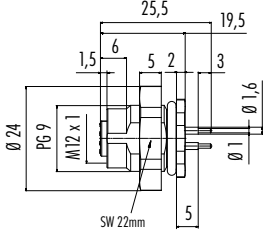
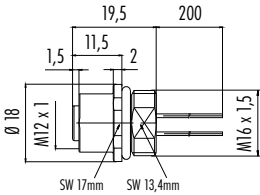
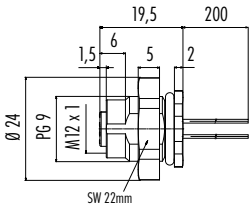
Description	Drawing	Contacts	Fixing thread	Ordering-No. ¹⁾
Male panel mount connector with single wires, AWG 24, metal housing		4	PG 13,5 M20 x 1,5	76 0331 0111 00004-0200 76 0431 0111 00004-0200
		5	PG 13,5 M20 x 1,5	76 0331 0111 00005-0200 76 0431 0111 00005-0200
		8	PG 13,5 M20 x 1,5	76 0331 0111 00008-0200 76 0431 0111 00008-0200
		12	PG 13,5 M20 x 1,5	76 0331 0111 00012-0200 76 0431 0111 00012-0200
Male panel mount connector, solder, metal housing		4	PG 9 M16 x 1,5	86 0131 0002 00004 86 0231 0002 00004
		5	PG 9 M16 x 1,5	86 0131 0002 00005 86 0231 0002 00005
		8	PG 9 M16 x 1,5	86 0131 0002 00008 86 0231 0002 00008
Male panel mount connector with single wires, Outdoor, IP68, IP69K		4	M16 x 1,5	09 3431 284 04
Male panel mount connector, screw clamp termination/Power, screw clamp termination		4 Power 5 Power 8	M20 x 1,5	99 0431 500 04 99 0433 500 05 86 0431 0003 00008
Male panel mount connector, positioning possible, with single wires, metal housing		4	PG 9 M16 x 1,5 PG 9 Stainless steel M16 x 1,5 Stainless steel	76 0731 0011 00004-0200 76 0831 0011 00004-0200 76 2731 0111 00004-0200 76 2831 0111 00004-0200
		5	PG 9 M16 x 1,5 PG 9 Stainless steel M16 x 1,5 Stainless steel	76 0731 0011 00005-0200 76 0831 0011 00005-0200 76 2731 0111 00005-0200 76 2831 0111 00005-0200
	Stainless steel version	8	M16 x 1,5 PG 9 Stainless steel M16 x 1,5 Stainless steel	76 0731 0011 00008-0200 76 0831 0011 00008-0200 76 2731 0111 00008-0200 76 2831 0111 00008-0200
Male panel mount connector, front fastened, with single wires, metal housing		4	PG 9 M16 x 1,5 (AWG 24)	76 0531 1011 00004-0200 76 0631 1011 00004-0200
		5	PG 9 M16 x 1,5 (AWG 24)	76 0531 1011 00005-0200 76 0631 1011 00005-0200
		8	PG 9 M16 x 1,5 (AWG 24)	76 0531 1011 00008-0200 76 0631 1011 00008-0200
	Stainless steel version	12	PG 9 M16 x 1,5 (AWG 24)	76 2531 1111 00005-0200 76 0531 1011 00012-0200 76 2531 1111 00012-0200 76 0631 1111 00012-0200

¹⁾ Standard wire length is 200 mm for 76-order-numbers. Other lengths upon request.

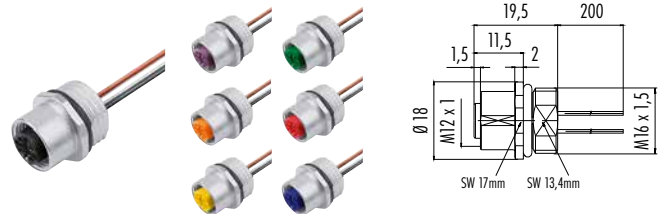
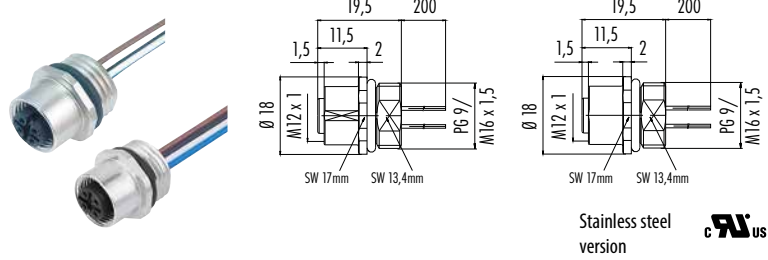
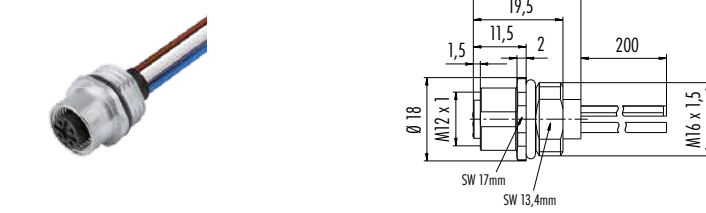
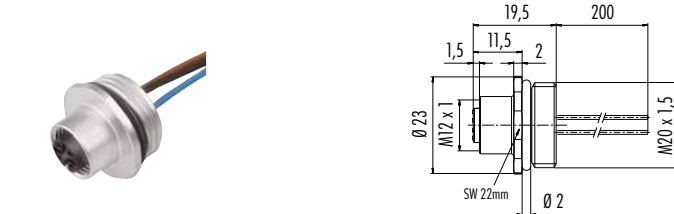
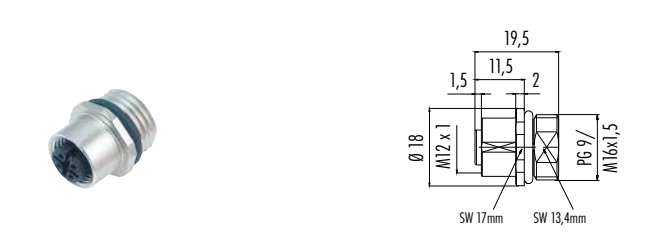
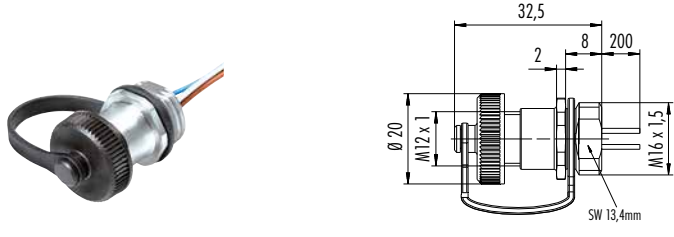
¹⁾ Standard wire length is 200 mm for 76-order-numbers. Other lengths upon request.

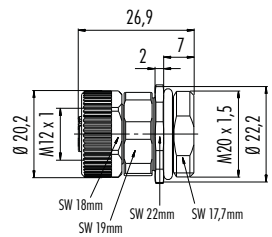
Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male angled panel mount connector, front fastened, dip-solder, with shielding sheet		4 5	PG 9	86 0531 1121 00004 86 0531 1121 00005
Male panel mount connector, front fastened, dip-solder, metal housing		4 5 8 12	M12 x 1	86 1031 1100 00004 86 1031 1100 00005 86 1031 1100 00008 86 1031 1100 00012
Male receptacle for PCB assembly		4 5 8		99 3431 200 04 99 3431 458 04 with shielding sheet 99 3441 200 05 99 3441 458 05 with shielding sheet 99 3481 200 08 99 3481 458 08 with shielding sheet
Male angled receptacle, for PCB assembly		4 5 8		99 3431 202 04 99 3431 601 04 with shielding sheet 99 3441 202 05 99 3441 601 05 with shielding sheet 99 3481 202 08 99 3481 601 08 with shielding sheet
Male receptacle, SMT, with housing, not shieldable/shieldable		4 5 8	9 mm	99 3431 351 04 99 3431 401 04 99 3441 351 05 99 3441 401 05 99 3481 351 08 99 3481 401 08
Male receptacle, SMT, not shieldable/shieldable		4 5 8	—	09 0431 600 04 09 0431 601 04 09 0433 600 05 09 0433 601 05 09 0381 600 08 09 0381 601 08

Description	Drawing	Contacts	Cable length, PUR	Fixing thread	Ordering-No.
Male panel mount connector M16, with shielded PUR-cable		5 8	0,5 m	M16 x 1,5	70 3441 785 05 70 3481 785 08
Male panel mount connector PG 9, front fastened, with shielded PUR-cable		5 8	0,5 m	PG 9	70 3441 287 05 70 3481 287 08

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Female panel mount connector, solder, plastic housing		4	PG 9 M16 x 1,5	86 4232 1002 00004 86 4332 1002 00004
	Hexagonal nut enclosed loose	5	PG 9 M16 x 1,5	86 4232 1002 00005 86 4332 1002 00005
		8	PG 9 M16 x 1,5	86 4232 1002 00008 86 4332 1002 00008
Female panel mount connector, front fastened, solder, plastic housing		4	PG 9	86 4832 3002 00004
	Hexagonal nut enclosed loose	5		86 4832 3002 00005
		8		86 4832 3002 00008
Female panel mount connector, front fastened, dip-solder, plastic housing		4	PG 9	86 4832 3000 00004
	Hexagonal nut enclosed loose	5		86 4832 3000 00005
		8		86 4832 3000 00008
Female panel mount connector with single wires, AWG 24, M16 x 1,5, plastic housing		4	76 4332 0011 00004-0200	
		5	76 4332 0011 00005-0200	
		8	76 4332 0011 00008-0200	
		12	76 4332 0111 00012-0200	
Female panel mount connector, front fastened, with single wires, AWG 24, PG 9, plastic housing		4	76 4832 3011 00004-0200	
		5	76 4832 3011 00005-0200	
		8	76 4832 3011 00008-0200	
		12	76 4832 3111 00012-0200	

¹⁾ Standard wire length is 200 mm for 76-order-numbers. Other lengths upon request.

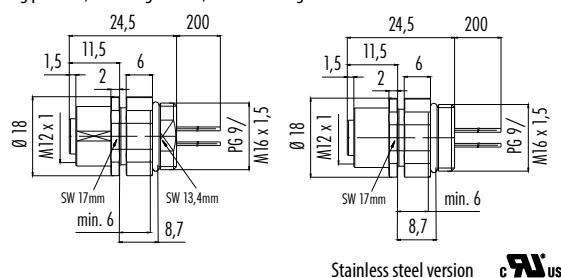
Description	Drawing	Contacts	Fixing thread	Contact insert	Ordering-No. ¹⁾
Female panel mount connector with single wires, AWG 24, metal housing		4	M16 x 1,5 (AWG24)	black	76 0232 0011 00004-0200
				purple	76 0232 0011 00104-0200
				orange	76 0232 0011 00204-0200
				yellow	76 0232 0011 00304-0200
				green	76 0232 0011 00404-0200
				red	76 0232 0011 00504-0200
				blue	76 0232 0011 00604-0200
		5	M16 x 1,5 (AWG24)	black	76 0232 0011 00005-0200
				purple	76 0232 0011 00105-0200
				orange	76 0232 0011 00205-0200
				yellow	76 0232 0011 00305-0200
				green	76 0232 0011 00405-0200
				red	76 0232 0011 00505-0200
				blue	76 0232 0011 00605-0200
Female panel mount connector with single wires/Power with single wires, metal housing		4	PG 9		76 0132 0011 00004-0200
			PG 9 Stainless steel		76 2132 0111 00004-0200
			PG 9 Power		09 3432 433 04
			M16 x 1,5 Stainless steel		76 2232 0111 00004-0200
		5	PG 9		76 0132 0011 00005-0200
			PG 9 Stainless steel		76 2132 0111 00005-0200
			PG 9 Power		09 3442 433 05
			M16 x 1,5 Stainless steel	black	76 2232 0111 00005-0200
			PG 9		76 0132 0011 00008-0200
			M16 x 1,5		76 0232 0011 00008-0200
		8	PG 9 Stainless steel		76 2132 0111 00008-0200
			M16 x 1,5 Stainless steel		76 2232 0111 00008-0200
			PG 9		76 0132 0111 00012-0200
		12	M16 x 1,5		76 0232 0111 00012-0200
Female panel mount connector with single wires, AWG 16, Power		4	M16 x 1,5	black	76 0232 0015 00004-0200
Female panel mount connector with single wires, AWG 24, metal housing		4			76 0432 0111 00004-0200
		5			76 0432 0111 00005-0200
		8	M20 x 1,5	black	76 0432 0111 00008-0200
		12			76 0432 0111 00012-0200
Female panel mount connector, solder, metal housing		4	PG 9		86 0132 0002 00004
			M16 x 1,5		86 0232 0002 00004
		5	PG 9		86 0132 0002 00005
			M16 x 1,5		86 0232 0002 00005
		8	PG 9		86 0132 0002 00008
			M16 x 1,5		86 0232 0002 00008
Female panel mount connector with single wires, Outdoor, IP68, IP69K		4	M16 x 1,5		09 3432 284 04

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Female panel mount connector, screw clamp termination/Power, screw clamp termination		4 Power	M20 x 1,5	99 0432 500 04 
		5 Power		99 0434 500 05 
		8		86 0432 0003 00008



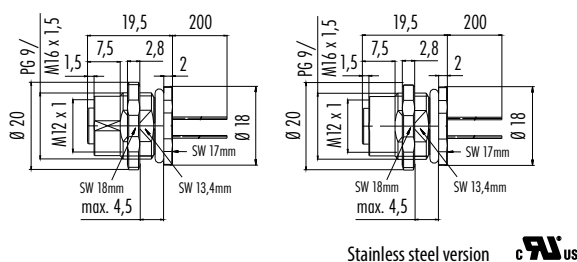
c us

Female panel mount connector, positioning possible, with single wires, metal housing



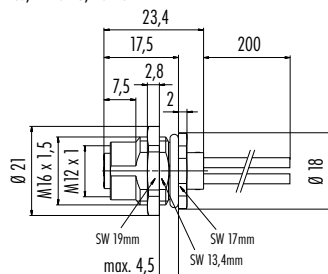
4	PG 9	76 0732 0011 00004-0200
	M16 x 1,5	76 0832 0011 00004-0200
	PG 9 Stainless steel	76 2732 0111 00004-0200
	M16 x 1,5 Stainless steel	76 2832 0111 00004-0200
5	PG 9	76 0732 0011 00005-0200
	M16 x 1,5	76 0832 0011 00005-0200
	PG 9 Stainless steel	76 2732 0111 00005-0200
	M16 x 1,5 Stainless steel	76 2832 0111 00005-0200
8	PG 9	76 0732 0011 00008-0200
	M16 x 1,5	76 0832 0011 00008-0200
	PG 9 Stainless steel	76 2732 0111 00008-0200
	M16 x 1,5 Stainless steel	76 2832 0111 00008-0200
12	PG 9	76 0732 0111 00012-0200
	M16 x 1,5	76 0832 0111 00012-0200

Female panel mount connector, front fastened, with single wires, metal housing



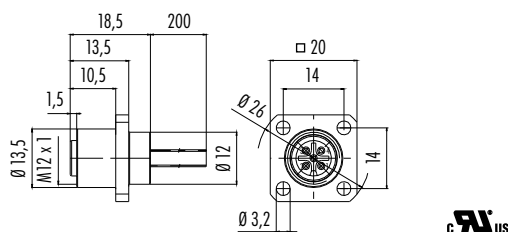
4	PG 9	76 0532 1011 00004-0200
	M16 x 1,5 (AWG 24)	76 0632 1011 00004-0200
	PG 9 Stainless steel	76 2532 1111 00004-0200
5	PG 9	76 0532 1011 00005-0200
	M16 x 1,5 (AWG 24)	76 0632 1011 00005-0200
	PG 9 Stainless steel	76 2532 1111 00005-0200
8	PG 9	76 0532 1011 00008-0200
	M16 x 1,5 (AWG 24)	76 0632 1011 00008-0200
	PG 9 Stainless steel	76 2532 1111 00008-0200
12	PG 9	76 0532 1111 00012-0200
	M16 x 1,5 (AWG 24)	76 0632 1111 00012-0200

Female panel mount connector, front fastened, with single wires, AWG 16, Power



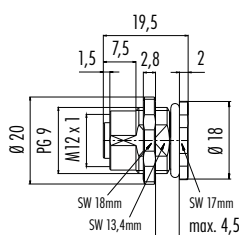
4	M16 x 1,5	76 0632 1015 00004-0200
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Female panel mount connector, rectangular flange, with single wires, metal housing, IP40 without sealing, IP67 with sealing (16 0959 000)



4	—	76 0932 0111 00004-0200
5	—	76 0932 0111 00005-0200
8	—	76 0932 0111 00008-0200
12	—	76 0932 0111 00012-0200

Female panel mount connector, front fastened, solder, unmounted, metal housing



4	PG 9	86 0532 1002 00004
	M16 x 1,5	86 0632 1002 00004
5	PG 9	86 0532 1002 00005
	M16 x 1,5	86 0632 1002 00005
8	PG 9	86 0532 1002 00008
	M16 x 1,5	86 0632 1002 00008

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Technical drawing of a 1/2 inch NPT female plug with dimensions in mm. The drawing shows a cross-section of the plug with various dimensions labeled. The outer diameter is 19.5 mm. The thread section has a diameter of 11.5 mm and a length of 6 mm. The plug has a total length of 11 mm. The thread is M12 x 1. The plug is made of SW 17 mm and SW 13,4 mm. The plug is labeled with '1/2' and 'PG 9'.

[illegible]

Stainless steel version



Technical drawing of a 1/2 inch NPT female fitting with dimensions in mm. The drawing shows a cross-section of the fitting with various dimensions labeled. The overall length is 31.5 mm. The outer diameter is 18 mm. The inner diameter is 16 mm. The thread is 1/2 inch NPT. The drawing includes dimensions for the flange, the body, and the internal threads. The flange has a thickness of 1.5 mm and a diameter of 18 mm. The body has a length of 19.5 mm and a diameter of 16 mm. The internal threads are 1/2 inch NPT. The drawing also shows the dimensions for the internal threads: 1.5 mm for the first thread, 7.5 mm for the second thread, 2.8 mm for the third thread, and 2 mm for the fourth thread. The drawing includes a note: "SW 18mm", "SW 13,4mm", "max. 4,5", and "SW 17mm".

Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a diameter of $\varnothing 20$ mm and a hub with a bore diameter of $\varnothing 18$ mm. The shaft has a length of 19.5 mm. The hub has a total length of 25.5 mm. The shaft is secured with a lock nut (SW 13, 4mm) and a lock washer (SW 18mm). The hub has a keyway with a width of 2.8 mm and a depth of 2 mm. The shaft has a thread of M12 x 1. The hub has a thread of PG9. The drawing also shows a dimension of 1.5 mm for the distance between the lock nut and the hub. Other dimensions include 7.5 mm, 5.8 mm, 3 mm, 1.75 mm, and 5 mm.

PCB thickness: 1.6 mm



PCB thickness: 1,6 mm

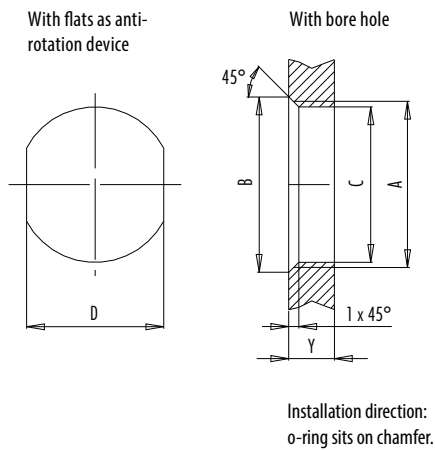


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139

Panel cut out

Panel mount connector



Thread A	B (mm)	C (mm)	D (mm)
PG 9	16,2	15,3	13,5
PG 11	20,2	18,7	17,0
PG 13,5	21,5	20,5	—
M12 x 0,5	—	12,1	—
M12 x 1	—	12,2	—
M14 x 1	15,2	14,2	—
M16 x 1,5	17,0	16,1	13,5
M20 x 1,5	21,0	20,1	—

Tightening moment

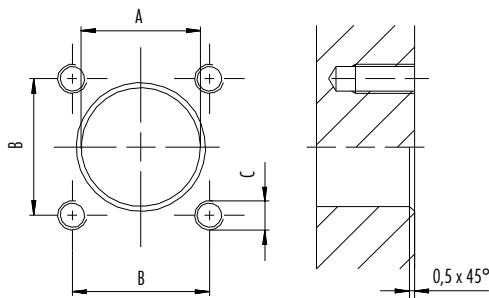
Metal housing	6,25 Nm
Positioning sleeve	6,25 Nm
Metal housing, screw clamp connection	5,00 Nm
Plastic housing	1,25 Nm
Positioning sleeve	1,25 Nm

Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible ¹⁾	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 ²⁾	³⁾ 1,5/ ⁴⁾ 2	6,5

Notes

- ¹⁾ Do not attach a chamfer
²⁾ Wall thickness:
 use locknut 01-5385 up to 1,5 mm
 >1,5 mm cut thread
³⁾ Nut
⁴⁾ Thread in wall of housing

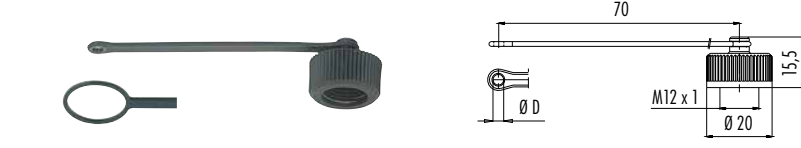
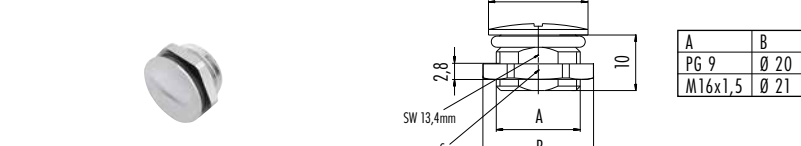
Panel mount connector, square flange

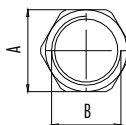
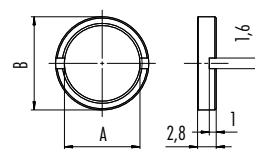
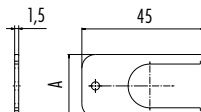
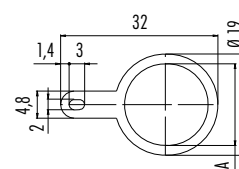
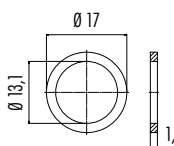
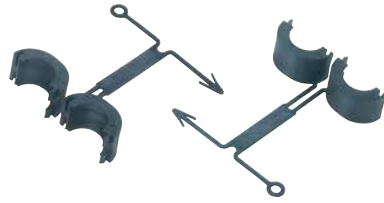
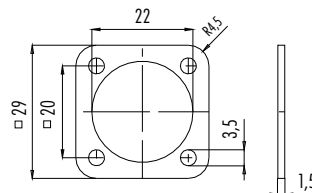
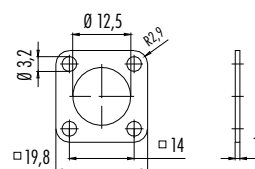


Housing A	B (mm)	C (mm)	D (mm)
Metal	12,2	14,0	M3 (4x)
Plastic	20,0	20,0	M3 (4x)

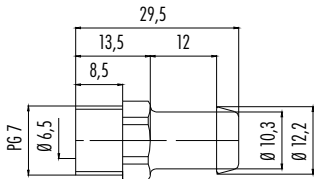
Requirements for Degree of protection IP67:

1. Metal housing: Use of sealing, Ordering-No. 16 0959 000
2. Plastic housing: Use of sealing, Ordering-No. 16 8091 000
3. M3 thread (4x) sealed as a threaded blind holes or screw heads

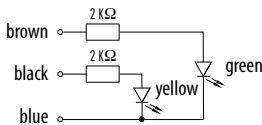
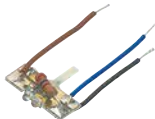
Description	Drawing	Ordering-No.	
Protection cap for male cable connector, IP67		08 2424 010 000	
Protection cap for female cable connector, IP67		08 2425 010 000	
Protection cap for male panel mount connector, IP67		Hole-Ø D	Ordering-No.
		3 mm	08 2615 000 000
		12,5 mm	08 2676 000 000
Protection cap for female panel mount connector, IP67		3 mm	08 2616 000 000
		12,5 mm	08 2677 000 000
Protection cap for male panel mount connector, IP67, for front mounting		11 mm	08 2989 000 000
		14,5 mm	08 2990 000 000
Protection cap for female panel mount connector, IP67, for front mounting		14,5 mm	08 2991 000 000
Protection cap for female connector, IP67		08 2769 000 000	
Dummy plug PG 9/M16 x1,5		Thread	Ordering-No.
		PG 9	08 3128 000 000
		M16 x 1,5	08 3129 000 000

Description	Drawing	Thread B	Wrench size A	Ordering-No.												
Hexagonal nut for fixing thread	  <table border="1"><thead><tr><th>Gewinde B Thread B</th><th>Schlüsselweite A Wrench size A</th></tr></thead><tbody><tr><td>PG 9</td><td>SW18 mm</td></tr><tr><td>PG 11</td><td>SW21 mm</td></tr><tr><td>PG 13,5</td><td>SW23 mm</td></tr><tr><td>M16 x 1,5</td><td>SW19 mm</td></tr><tr><td>M20 x 1,5</td><td>SW24 mm</td></tr></tbody></table>	Gewinde B Thread B	Schlüsselweite A Wrench size A	PG 9	SW18 mm	PG 11	SW21 mm	PG 13,5	SW23 mm	M16 x 1,5	SW19 mm	M20 x 1,5	SW24 mm	PG 9	SW 18 mm	16 0402 001
Gewinde B Thread B	Schlüsselweite A Wrench size A															
PG 9	SW18 mm															
PG 11	SW21 mm															
PG 13,5	SW23 mm															
M16 x 1,5	SW19 mm															
M20 x 1,5	SW24 mm															
		PG 11	SW 21 mm	16 0403 001												
		PG 13,5	SW 23 mm	16 0401 001												
		M16 x 1,5	SW 19 mm	16 0916 001												
		M20 x 1,5	SW 24 mm	16 0917 001												
Ring nut for fixing thread	 	Thread A	Diameter B	Ordering-No.												
		PG 9	18 mm	01 5322 001												
		M12 x 1	14 mm	01 5325 001												
		M16 x 1,5	18 mm	01 5244 001												
Mounting spanner for ring nut	  <table border="1"><thead><tr><th>Gewinde/thread</th><th>A</th></tr></thead><tbody><tr><td>PG 9/M16x1,5</td><td>23</td></tr><tr><td>M12x1</td><td>19</td></tr></tbody></table>	Gewinde/thread	A	PG 9/M16x1,5	23	M12x1	19	Thread	Measure A	Ordering-No.						
Gewinde/thread	A															
PG 9/M16x1,5	23															
M12x1	19															
		PG 9/M16 x 1,5	23 mm	07 0084 000												
		M12 x 1	19 mm	07 0083 000												
Shielding sheet for panel mount connector, fastened from back side	 	Thread	Measure A	Ordering-No.												
		PG 9	15,3 mm	04 0734 124												
		M16 x 1,5	16,1 mm	04 0735 124												
Flat seal for fixing thread PG 9/M16 x 1,5	 	Ordering-No.														
		16 1125 071														
Sleeve against inadvertent unmating under load	 	16 0977 000														
Seal for plastic rectangular flange connector	 	16 8091 000														
Seal for metal rectangular flange connector	 	16 0959 000														

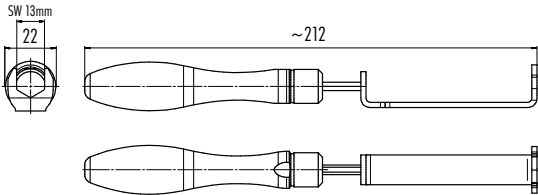
Description	Drawing	Ordering-No.
Screwing for tube		02 0273 000



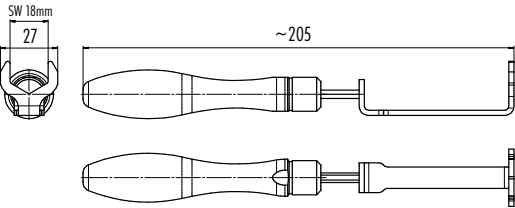
PCB with one LED green/yellow, for mounting in cable connectors, screw termination	08 0462 000 000
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Hexagon torque spanner SW 13 mm, 0,6 Nm	07 0086 000
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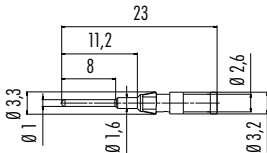
Hexagon torque spanner SW 18 mm, 0,6 Nm	07 0079 000
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Mounting tool for M12 locking ring	07 0078 000
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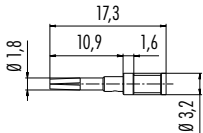


Single contact (Male), PU = 100 pieces				
--	--	--	--	--



Wire gauge	AWG	Pieces	Ordering-No.
0,14 – 0,34 mm ²	26–22	100	61 1224 146
0,34 – 0,5 mm ²	22–20	100	61 1154 146
0,75 – 1,0 mm ²	18–16	100	61 1225 146
1,0 – 1,5 mm ²	16	100	61 1226 146

Single contact (Female), PU = 100 pieces				
--	--	--	--	--



0,14 – 0,34 mm ²	26–22	100	61 1227 146
0,34 – 0,5 mm ²	22–20	100	61 1155 146
0,75 – 1,0 mm ²	18–16	100	61 1228 146
1,0 – 1,5 mm ²	16	100	61 1229 146

Description	Drawing	Ordering-No.
Crimping tool for turned crimp contacts		66 0003 001
Extraction tool for turned crimp contacts		66 0004 001





- Screw locking acc. to DIN EN 61076-2
- Degree of protection IP67/IP68
- Moulded versions
- M12 A-Coding

Description

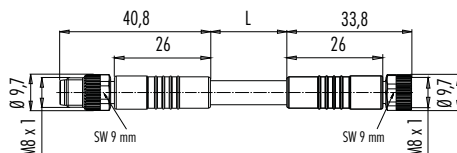
Drawing

Contacts

Cable length, PUR ¹⁾

Ordering-No.

Male cable connector M8 x 1 – Female cable connector M8 x 1



3 x 0,25

1 m

79 5032 10 03

2 m

79 5032 20 03

4 x 0,25

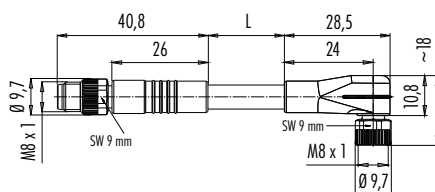
1 m

79 5033 10 04

2 m

79 5033 20 04

Male cable connector M8 x 1 – Female angled connector M8 x 1



3 x 0,25

1 m

79 5050 10 03

2 m

79 5050 20 03

4 x 0,25

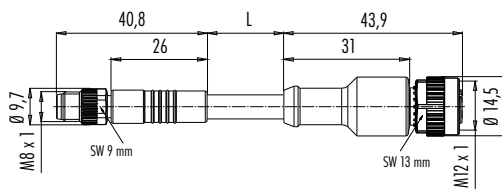
1 m

79 5037 10 04

2 m

79 5037 20 04

Male cable connector M8 x 1 – Female cable connector M12 x 1



3 x 0,25

1 m

79 5072 10 03

2 m

79 5072 20 03

4 x 0,25

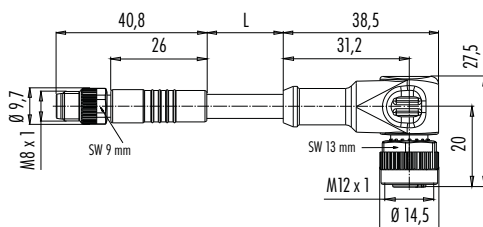
1 m

79 5073 10 04

2 m

79 5073 20 04

Male cable connector M8 x 1 – Female angled connector M12 x 1



3 x 0,25

1 m

79 5076 10 03

2 m

79 5076 20 03

4 x 0,25

1 m

79 5077 10 04

2 m

79 5077 20 04

Specifications

Contacts	3	M12-A: 4, 4/3 M12-S: 3+PE M12-T: 4	5
Wire gauge	M8: 0,25 mm ² (AWG 24), M12: 0,34 mm ² (AWG 22)		M12: 0,25 mm ² (AWG 24)
Mechanical operation	> 100 Mating cycles		
Temperature range	– 25 °C / + 85 °C		
Rated voltage	M8: 60 V, M12-A: 250 V, 10–30 V with LED, M12-S: 630 V, M12-T: 63 V	M8: 30 V, M12: 250 V, 10–30 V with LED	M12: 60 V
Pollution degree	3		
Rated current (40°C)	M8/M12-A: 4 A M12-S/-T: 12 A		
Contact plating	Au (Gold)		
Material of housing	PUR		

Connecting Cables

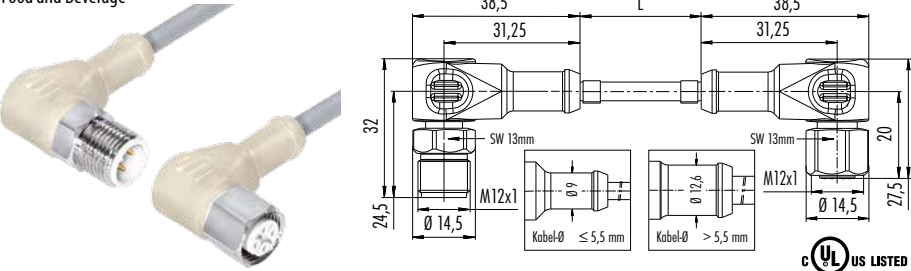
Automation Technology 765 series

Description	Drawing	Contacts	Cable length, PUR ¹⁾	Ordering-No.
Male cable connector M12 x 1 – Female cable connector M8 x 1		3 x 0,25 4 x 0,25	1 m 2 m 1 m 2 m	79 5008 10 03 79 5008 20 03 79 5009 10 04 79 5009 20 04
Male cable connector M12 x 1 – Female angled connector M8 x 1		3 x 0,25 4 x 0,25	1 m 2 m 1 m 2 m	79 5100 10 03 79 5100 20 03 79 5101 10 04 79 5101 20 04
Male cable connector M12 x 1 – Female angled connector M8 x 1 with LED, PNP		3 x 0,34	1 m 2 m	79 5011 10 03 79 5011 20 03
Male cable connector M12 x 1 – Female cable connector M12 x 1		3 x 0,34 4 x 0,34 5 x 0,25	1 m 2 m 1 m 2 m 1 m 2 m	79 5000 10 04 79 5000 20 04 79 5001 10 04 79 5001 20 04 79 5002 10 05 79 5002 20 05
Male cable connector M12 x 1 – Female cable connector M12 x 1, PVC (grey), stainless steel locking ring, Food and Beverage		3 x 0,34 4 x 0,34 5 x 0,34 8 x 0,25 12 x 0,25	2 m 5 m 2 m 5 m 2 m 5 m	77 3730 3729 20403–0200 77 3730 3729 20403–0500 77 3730 3729 20404–0200 77 3730 3729 20404–0500 77 3730 3729 20405–0200 77 3730 3729 20405–0500 77 3730 3729 20908–0200 77 3730 3729 20908–0500 77 3730 3729 20912–0200 77 3730 3729 20912–0500
Male cable connector M12 x 1 – Female cable connector M12 x 1, PUR (black), Power		4 x 1,5	2 m 5 m	77 0606 0605 50704–0200 77 0606 0605 50704–0500

¹⁾Other lengths upon request.

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¹⁾ Other lengths upon request.

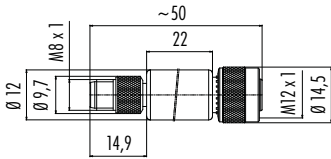
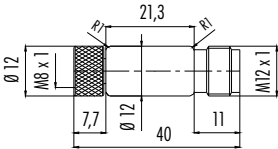
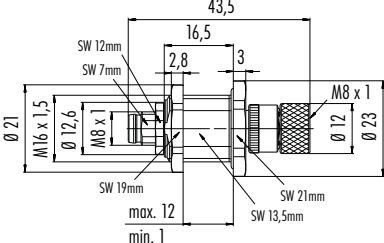
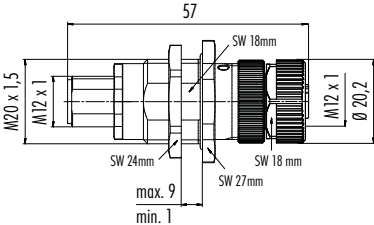
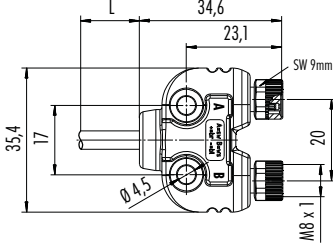
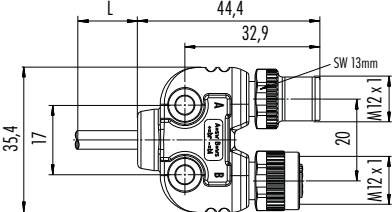
Description	Drawing	Contacts	Cable length, PVC ¹⁾	Ordering-No.
Male angled connector M12 x 1 – Female angled connector M12 x 1, PVC (grey), stainless steel locking ring, Food and Beverage		3 x 0,34	2 m	77 3734 3727 20403-0200
			5 m	77 3734 3727 20403-0500
		4 x 0,34	2 m	77 3734 3727 20404-0200
			5 m	77 3734 3727 20404-0500
		5 x 0,34	2 m	77 3734 3727 20405-0200
			5 m	77 3734 3727 20405-0500
		8 x 0,25	2 m	77 3734 3727 20908-0200
			5 m	77 3734 3727 20908-0500
		12 x 0,25	2 m	77 3734 3727 20912-0200
			5 m	77 3734 3727 20912-0500

¹⁾ Other lengths upon request.

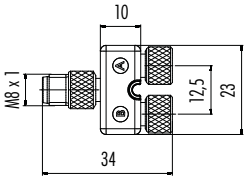
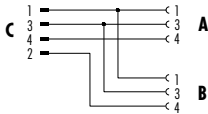
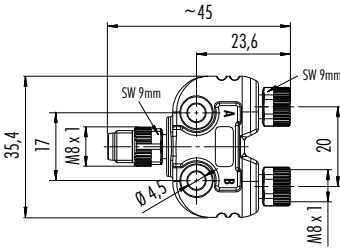
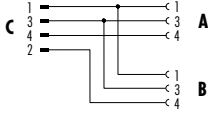
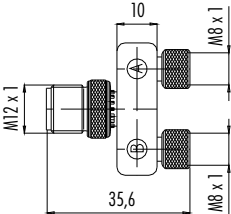
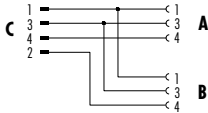
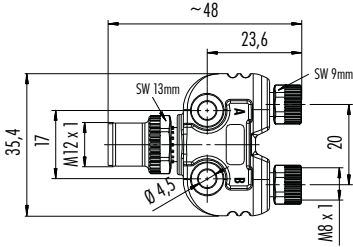
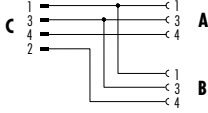
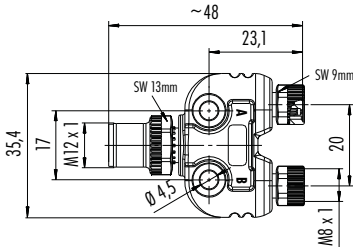
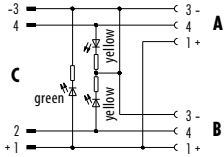
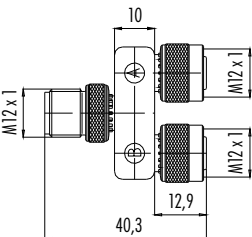
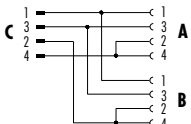
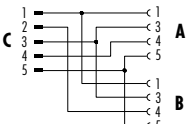
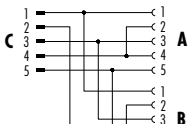
Automation Technology 765 series

¹⁾ Other lengths upon request.

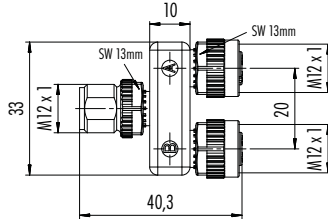
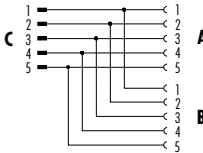
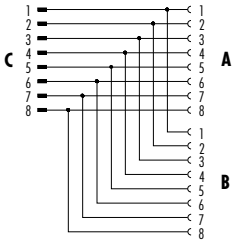
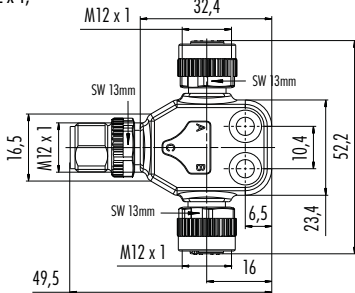
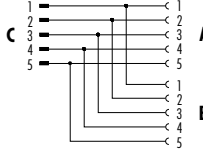
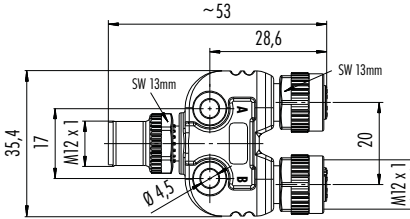
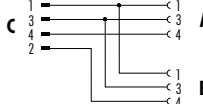
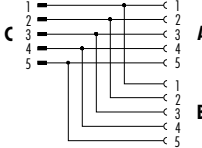
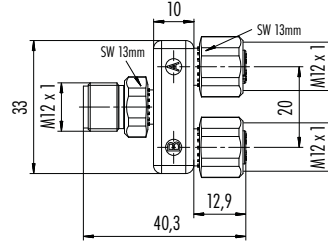
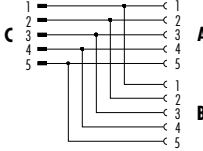
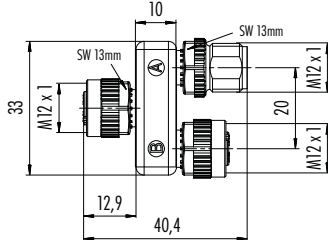
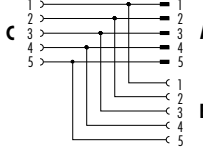
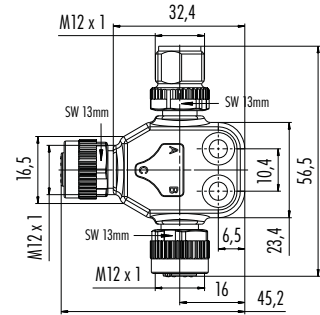
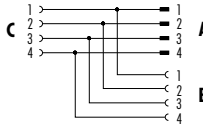
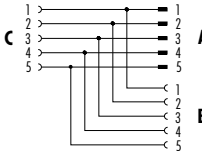
Adapter · Twin Distributors

Description	Drawing	Contacts	Ordering-No.
Adapter, male connector M8 x 1 – female connector M12 x 1		3 4	09 5283 00 03 09 5284 00 04
Adapter, female connector M8 x 1 – male connector M12 x 1		3 4	09 5280 00 03 09 5281 00 04
Adapter, lead-through for control cabinet, male connector M8 x 1 – female connector M8 x 1, shielded		3 4	09 5250 00 03 09 5251 00 04
Adapter, lead-through for control cabinet, male connector M12 x 1 – female connector M12 x 1, shielded		4 5 8	09 5240 00 04 09 5241 00 05 09 5244 00 08
Twin distributor, moulded – 2 female connectors M8 x 1, LED	  US LISTED	Contacts 3 x 0,25	Cable length, PUR 2 m Ordering-No. 79 5232 33 04
Twin distributor, moulded – male connector/female connector M12 x 1	  US LISTED	Contacts 4 x 0,25	Cable 1 m 2 m Ordering-No. 79 5238 10 04 79 5238 20 04

Twin distributors

Description	Drawing	Contacts	Ordering-No.
Y-distributor, Male connector M8 x 1 – 2 Female connectors M8 x 1	 	4/3	79 5280 00 04
			
Y-distributor, male connector M8 x 1 – 2 female connectors M8 x 1, screw on	 	4/3	79 5232 70 04
			
Y-distributor, male connector M12 x 1 – 2 female connectors M8 x 1	 	4/3	79 5204 00 04
			
Y-distributor, male connector M12 x 1 – 2 female connectors M8 x 1, screw on	 	4/3	79 5232 90 04
			
Y-distributor, male connector M12 x 1 – 2 female connectors M8 x 1, Led, screw on	 	4/3	79 5232 00 04
			
Y-distributor, male connector M12 x 1 – 2 female connectors M12 x 1	 	4 5/4 5	79 5200 00 04 79 5207 00 05 79 5208 00 05
		  	

Twin distributors

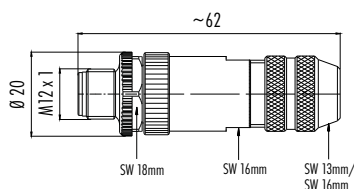
Description	Drawing	Contacts	Ordering-No.
Y-distributor, 1:1 wiring, male connector M12 x 1 – 2 female connectors M12 x 1	 	5 8	79 5210 00 05 79 5211 00 08
		 	
T-distributor, male connector M12 x 1 – 2 female connectors M12 x 1, screw on	 	5	79 5256 100 05
			
Y-distributor, male connector M12 x 1 – 2 female connectors M12 x 1, screw on	 	4/3 5	79 5236 90 04 79 5236 40 05
		 	
Y-distributor, 1:1 wiring, male connector M12 x 1 – 2 female connectors M12 x 1, stainless steel version	 	5	79 5210 17 05
			
Y-distributor, 1:1 wiring, female connector M12 x 1 – male connector/female connector M12 x 1	 	5	79 5212 00 05
			
T-distributor, female connector M12 x 1 – male connector/female connector M12 x 1, screw on	 	4 5	79 5254 100 04 79 5255 100 05
		 	



- Screw locking acc. to DIN EN 61076-2-101
- Degree of protection IP67
- Moulded versions
- Degree of protection IP68
- Easy assembly
- Excellent EMC shielding
- Versions with shielding rings/iris type spring
- Angled connectors adjustable in 4 positions

Description**Drawing**

Male cable connector, screw clamp/wire clamp, with shielding ring, shieldable

Contacts**Cable outlet****Screw clamp****Wire clamp**

4	6–8 mm	99 1429 810 04		–
	6–8 mm	99 1437 810 05		99 1535 810 05
5	6,5–8,5 mm	99 1437 910 05		99 1535 910 05
	8–10 mm	99 1437 935 05		–

Male cable connector, screw clamp/wire clamp, iris type spring, shieldable

4

5–8 mm

99 1439 810 05



99 1533 810 05

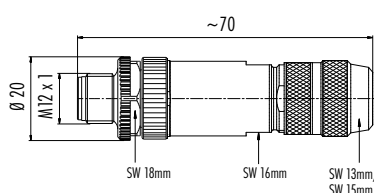
5

8–9 mm

99 1439 910 05



99 1533 910 05



Male cable connector, screw clamp, with shielding ring, stainless steel version, shieldable

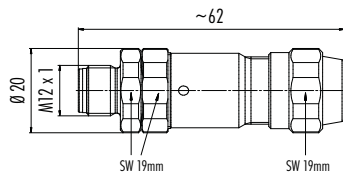
4

5,5–8,6 mm

99 1429 995 04

5

99 1437 995 05

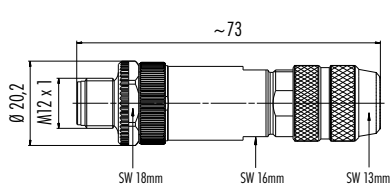


Male cable connector, crimp, shieldable

4

5–8 mm

99 1433 810 04

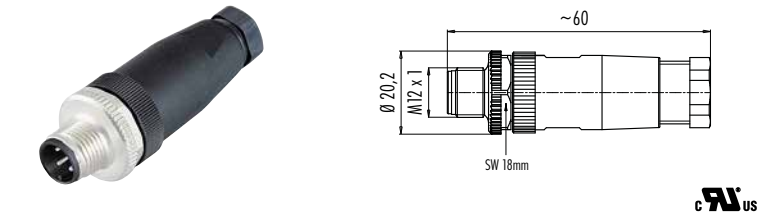


Crimp contacts see page 160

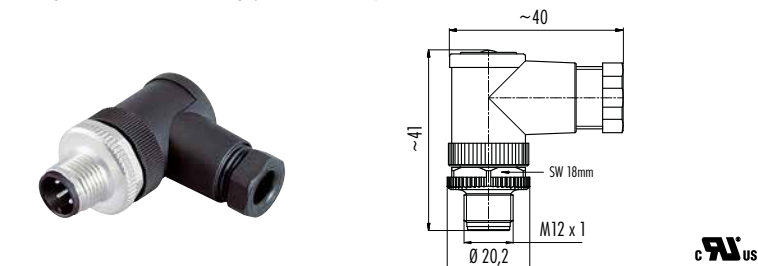
Specifications

Contacts	4	5
Wire gauge	screw clamp max. 0,75 mm ² (max. AWG 20), wire clamp max. 0,5 mm ² (max. AWG 20)	
Mechanical operation	Optalloy > 50 Mating cycles, Gold > 100 Mating cycles	
Temperature range	– 40 °C / + 85 °C	
Rated voltage	250 V	60 V
Pollution degree	3	
Rated current (40°C)	4 A	
Contact plating	plastic versions: CuSnZn (Optalloy), others Au (Gold)	
Material of housing	PA, straight, shielded version CuZn (brass nickel plated), angled shielded versions zinc diecasting nickel plated	

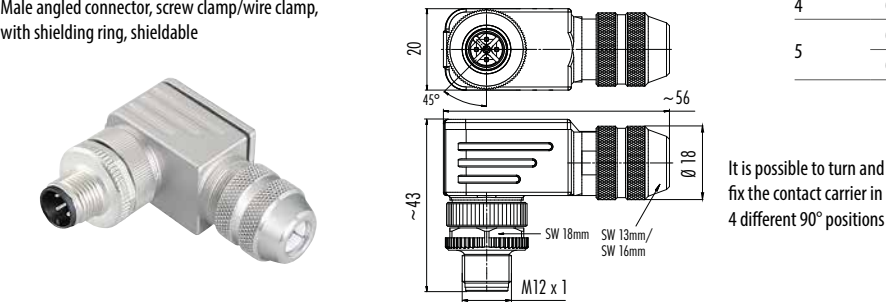
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector, metal locking system, screw clamp		4	4–6 mm	99 0429 15 04
			6–8 mm	99 0429 105 04
		5	4–6 mm	99 0437 15 05
			6–8 mm	99 0437 105 05



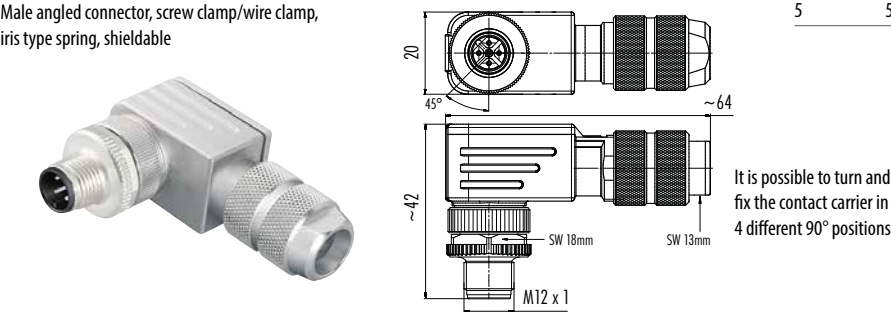
Male angled connector, metal locking system, screw clamp		4	4–6 mm	99 0429 135 04
			6–8 mm	99 0429 145 04
		5	4–6 mm	99 0437 135 05
			6–8 mm	99 0437 145 05



Male angled connector, screw clamp/wire clamp, with shielding ring, shieldable		Contacts	Cable outlet	Screw clamp	Wire clamp
		4	6–8 mm	99 1429 820 04	–
			6–8 mm	99 1437 820 05	99 1535 820 05
		5	6,5–8,5 mm	99 1437 920 05	99 1535 920 05



Male angled connector, screw clamp/wire clamp, iris type spring, shieldable		5	5–8 mm	99 1439 820 05	99 1533 820 05
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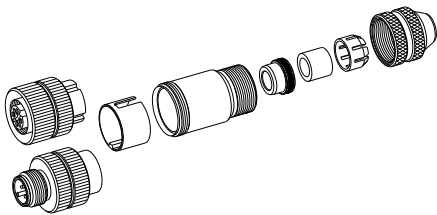
Male angled connector, crimp, shieldable		4	5–8 mm	99 1433 820 04	
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Crimp contacts see page 160

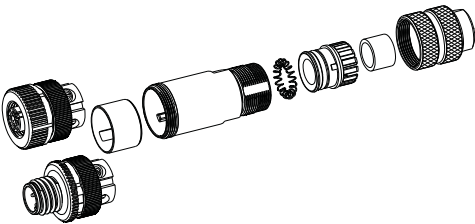
Component part drawing

Cable connectors, with shielding ring, shieldable



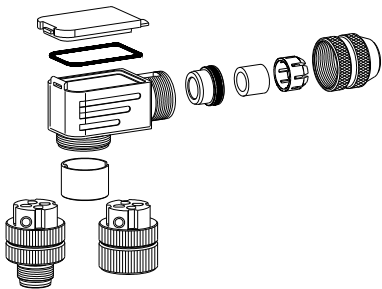
- Female insert/ Male insert
- Insulating sleeve tightly built into coupling sleeve
- Shielding ring
- O-ring
- Seal
- Pinch ring
- Pressing screw

Cable connectors, with iris type spring, shieldable



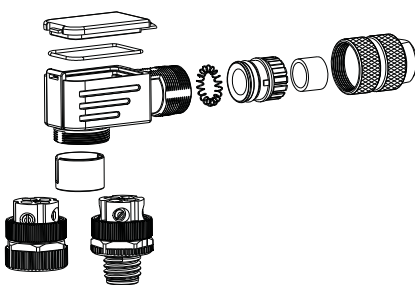
- Female insert/ Male insert
- Insulating sleeve, Sleeve, Pressing spring, O-ring, Pinch ring, Seal, Pressing screw are premounted

Angled connectors, shieldable



- Female insert/ Male insert
- Insulating sleeve tightly built into coupling sleeve
- Housing
- Seal
- Cover
- Shielding ring
- O-ring
- Seal
- Pinch ring
- Pressing screw

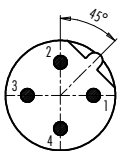
Angled connectors, with iris type spring, shieldable



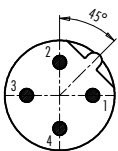
- Female insert/ Male insert
- Insulating sleeve, Housing, Pressing spring, O-ring, Pinch ring, Seal, Pressing screw are premounted
- O-ring
- Cover

Contact arrangements male insert (mating side)

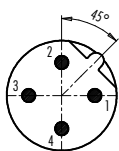
2/4 contacts



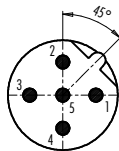
3 contacts



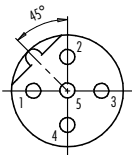
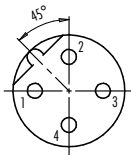
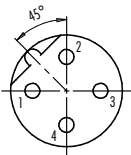
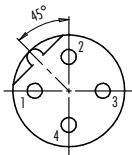
4 contacts



5 contacts



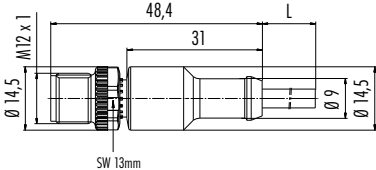
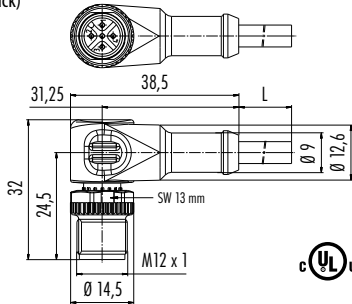
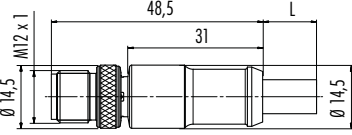
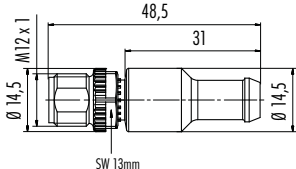
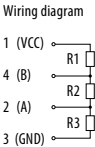
Contact arrangements female insert (mating side)



Colour of wire, moulded cable and panel mount connectors

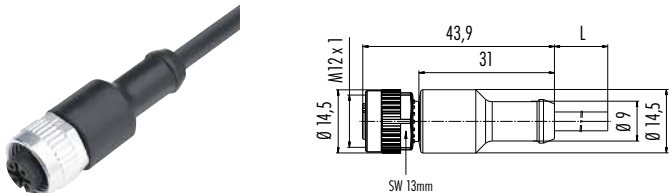
2/4 contacts PROFIBUS	3 contacts	4 contacts	5 contacts
1 not connected	1 brown	1 brown	1 brown
2 green	2 not connected	2 white	2 white
3 not connected	3 blue	3 blue	3 blue
4 red	4 black	4 black	4 black
			5 grey

Shield = Coupling ring

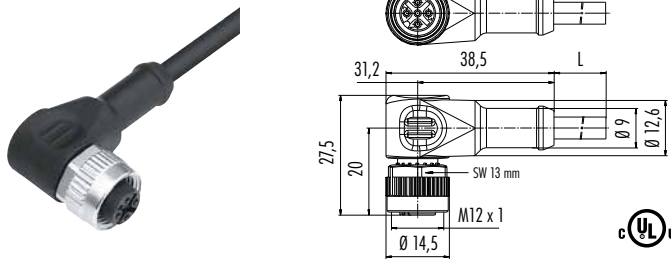
Description	Drawing	Contacts	Cable length	PVC ¹⁾	PUR ¹⁾
Male cable connector, moulded, PVC (grey), PUR (black)		3 x 0,34	2 m 5 m	77 4429 0000 20003-0200 77 4429 0000 20003-0500	77 4429 0000 50003-0200 77 4429 0000 50003-0500
		4 x 0,34	2 m 5 m	77 4429 0000 20004-0200 77 4429 0000 20004-0500	77 4429 0000 50004-0200 77 4429 0000 50004-0500
		5 x 0,25	2 m 5 m	77 4429 0000 20005-0200 77 4429 0000 20005-0500	77 4429 0000 50005-0200 77 4429 0000 50005-0500
					
Male angled connector, moulded, PVC (grey), PUR (black)		3 x 0,34	2 m 5 m	77 4427 0000 20003-0200 77 4427 0000 20003-0500	77 4427 0000 50003-0200 77 4427 0000 50003-0500
		4 x 0,34	2 m 5 m	77 4427 0000 20004-0200 77 4427 0000 20004-0500	77 4427 0000 50004-0200 77 4427 0000 50004-0500
		5 x 0,25	2 m 5 m	77 4427 0000 20005-0200 77 4427 0000 20005-0500	77 4427 0000 50005-0200 77 4427 0000 50005-0500
					
Male cable connector, shielded, PROFIBUS		2	2 m 5 m 10 m	77 4329 0000 60702-0200 77 4329 0000 60702-0500 77 4329 0000 60702-1000	
					
					
Male terminating connector, PROFIBUS		4	–	77 9835 0000 00004	
					
					
					

Specifications	Cable connectors, moulded			
Contacts	2 PROFIBUS	3	4	5
Wire gauge	0,25 mm² (AWG 24)	0,34 mm² (AWG 22)		
Mechanical operation	> 100 Mating cycles			
Temperature range	– 25 °C /+ 80 °C	– 25 °C /+ 90 °C (+ 80 °C UL)		
Rated voltage	60 V	250 V		60 V
Pollution degree	3			
Rated current (40°C)	1 A	4 A		
Contact plating	Au (Gold)			
Material of housing	PUR			

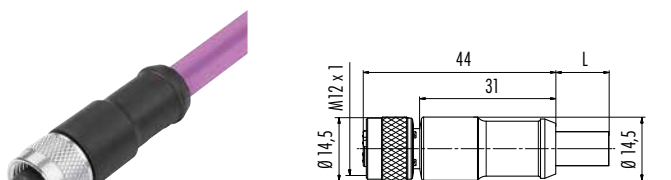
¹⁾ Standard cable length is 2 m/5 m. Other lengths upon request.

Description	Drawing	Contacts	Cable length	PVC ¹⁾	PUR ¹⁾
Female cable connector, moulded, PVC (grey), PUR (black)		3 x 0,34	2 m	77 4430 0000 20003-0200	77 4430 0000 50003-0200
			5 m	77 4430 0000 20003-0500	77 4430 0000 50003-0500
		4 x 0,34	2 m	77 4430 0000 20004-0200	77 4430 0000 50004-0200
			5 m	77 4430 0000 20004-0500	77 4430 0000 50004-0500
		5 x 0,25	2 m	77 4430 0000 20005-0200	77 4430 0000 50005-0200
			5 m	77 4430 0000 20005-0500	77 4430 0000 50005-0500



Female angled connector, moulded, PVC (grey), PUR (black)		3 x 0,34	2 m	77 4434 0000 20003-0200	77 4434 0000 50003-0200
			5 m	77 4434 0000 20003-0500	77 4434 0000 50003-0500
		4 x 0,34	2 m	77 4434 0000 20004-0200	77 4434 0000 50004-0200
			5 m	77 4434 0000 20004-0500	77 4434 0000 50004-0500
		5 x 0,25	2 m	77 4434 0000 20005-0200	77 4434 0000 50005-0200
			5 m	77 4434 0000 20005-0500	77 4434 0000 50005-0500

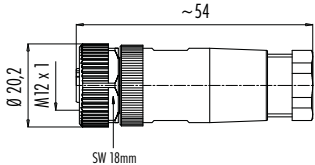


Female cable connector, shielded, PROFIBUS		Contacts	Cable length	Ordering-No. ¹⁾	
		2	2 m	77 4330 0000 60702-0200	
			5 m	77 4330 0000 60702-0500	
			10 m	77 4330 0000 60702-1000	



Specifications	Standard Cable					
Contacts	3		4		5	
Wire gauge	3 x 0,34 mm ² (AWG 22)		4 x 0,34 mm ² (AWG 22)		5 x 0,34 mm ² (AWG 24)	
Material jacket	PVC grey	PUR	PVC grey	PUR	PVC grey	PUR
Insulation of wire	PVC grey	PP	PVC grey	PP	PVC grey	PP
Design of wire (mm)	42 x 0,1					
Cable diameter (mm)	4,5	4,3	4,8	4,7	4,8	4,7
Temperature range cable in move	PVC: - 5 °C / + 105 °C PUR: - 25 °C / + 90 °C (in chain flex application + 60 °C)					
Temperature range cable fixed	PVC: - 40 °C / + 105 °C PUR: - 50 °C / + 90 °C					
Bending radius (at 10 x D)	2 Mio.	5 Mio.	2 Mio.	5 Mio.	2 Mio.	5 Mio.
Approval	UL/CSA					
UL-style	PVC: AWM 2517 PUR: AWM 20549					
Chain flex application	bending radius min. 10 x D, permitted acceleration 5 m/s ²					

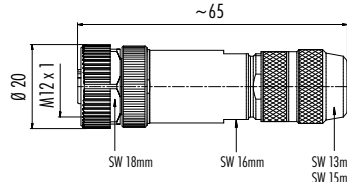
Specifications	PROFIBUS Cable
Contacts	2
Wire gauge	1 x 2 x 0,25 mm ² (AWG 24)
Material jacket	PUR
Insulation of wire	PE foam
Design of wire (mm)	19 x 0,127 (AWG 24 x 19)
Cable diameter (mm)	7,8
UL-style	AWM 20236

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, metal locking system, screw clamp		4	4–6 mm	99 0430 25 04
			6–8 mm	99 0430 225 04
		5	4–6 mm	99 0436 25 05
			6–8 mm	99 0436 225 05

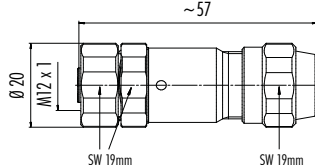


		Contacts	Cable outlet	Screw clamp	Wire clamp
Female cable connector, screw clamp/wire clamp, with shielding ring, shieldable		4	6–8 mm	99 1430 810 04	 —
			6–8 mm	99 1436 810 05	 99 1536 810 05
		5	6,5–8,5 mm	99 1436 910 05	 99 1536 910 05
			8–10 mm	99 1436 935 05	 —

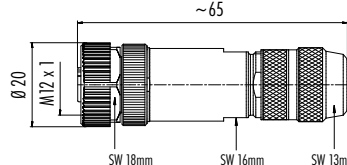


Female cable connector, screw clamp/wire clamp, iris type spring, shieldable		5	5–8 mm	99 1438 810 05		99 1534 810 05
			8–9 mm	99 1438 910 05		99 1534 910 05



Female cable connector, screw clamp, with shielding ring, stainless steel version, shieldable		4	5,5–8,6 mm	99 1430 995 04	
		5		99 1436 995 05	



Female cable connector, crimp, shieldable		4	5–8 mm	99 1434 810 04	
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Crimp contacts see page 160

Description

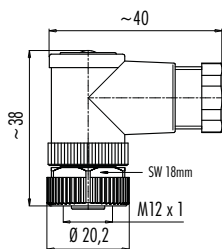
Drawing

Contacts

Cable outlet

Ordering-No.

Female angled connector, metal locking system, screw clamp



4

4–6 mm

99 0430 135 04

6–8 mm

99 0430 235 04

5

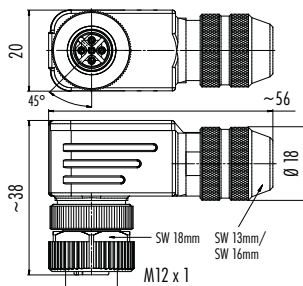
4–6 mm

99 0436 135 05

6–8 mm

99 0436 235 05

Female angled connector, screw clamp/wire clamp, with shielding ring, shieldable



It is possible to turn and fix the contact carrier in 4 different 90° positions

Contacts

Cable outlet

Screw clamp

Wire clamp

4

6–8 mm

99 1430 820 04



—

5

6–8 mm

99 1436 820 05



99 1536 820 05

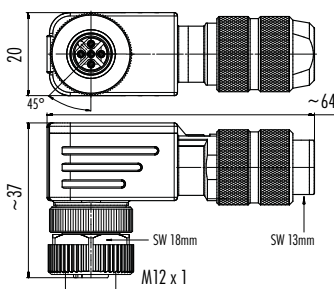
6,5–8,5 mm

99 1436 920 05



99 1536 920 05

Female angled connector, screw clamp/wire clamp, iris type spring, shieldable



It is possible to turn and fix the contact carrier in 4 different 90° positions

5

5–8 mm

99 1438 820 05



99 1534 820 05

Female angled connector, crimp, shieldable



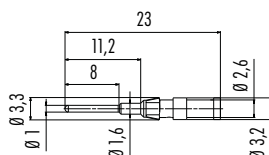
4

5–8 mm

99 1434 820 04

Crimp contacts see page 160

Single contact (Male), PU 100 pieces



Wire gauge

AWG

Ordering-No.

0,14 mm² – 0,34 mm²

26–22

61 1224 146

0,34 mm² – 0,5 mm²

22–20

61 1154 146

0,75 mm² – 1,0 mm²

18–16

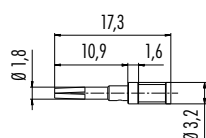
61 1225 146

1,0 mm² – 1,5 mm²

16

61 1226 146

Single contact (Female), PU 100 pieces



0,14 mm² – 0,34 mm²

26–22

61 1227 146

0,34 mm² – 0,5 mm²

22–20

61 1155 146

0,75 mm² – 1,0 mm²

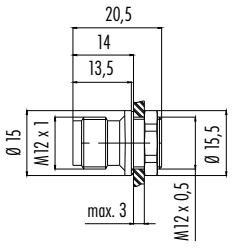
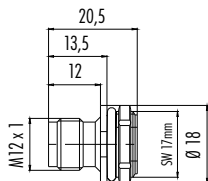
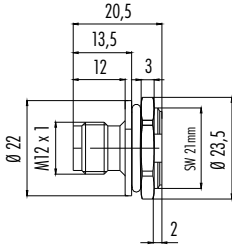
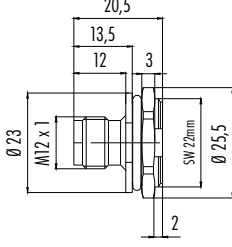
18–16

61 1228 146

1,0 mm² – 1,5 mm²

16

61 1229 146

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, fixing thread, solder		4	M12 x 0,5	09 0431 90 04
Male panel mount connector, fixing thread, solder		4	PG 9	86 4233 1002 00004
			M16 x 1,5	86 4333 1002 00004
		5	M16 x 1,5	86 4333 1002 00005
Male panel mount connector, fixing thread, solder		4	PG 11	09 0435 90 04
Male panel mount connector, fixing thread, solder		4	PG 13,5	86 4533 1002 00004
			M20 x 1,5	86 4633 1002 00004
		5	M20 x 1,5	86 4633 1002 00005

Specifications	Panel mount connector	
Contacts	4	5
Wire gauge	max. 0,25 mm² (max. AWG 24), single wires AWG 24 (0,25 mm²)	
Mechanical operation	> 100 Mating cycles	
Temperature range	− 40 °C /+ 85 °C	
Rated voltage	250 V	60 V
Pollution degree	3	
Rated current (40°C)	4 A	
Contact plating	Au (Gold)	
Material of housing	PA, zinc diecasting nickel plated	

Description

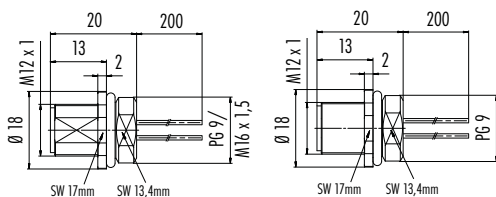
Drawing

Contacts

Fix. thread

Ordering-No.

Male panel mount connector with single wires, metal housing

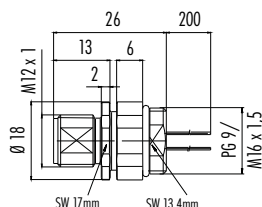


Stainless steel version

4	PG 9	76 0133 0011 00104–0200
	M16 x 1,5	76 0233 0011 00104–0200
	PG 9 Stainless steel	76 2133 0111 00104–0200
5	PG 9	76 0133 0011 00105–0200
	M16 x 1,5	76 0233 0011 00105–0200
	PG 9 Stainless steel	76 2133 0111 00105–0200

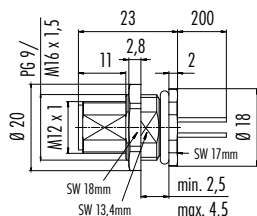


Male panel mount connector, positioning possible, with single wires, metal housing



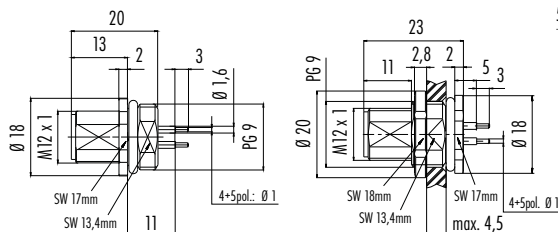
4	PG 9	76 0733 0011 00104-0200
	M16 x 1,5	76 0833 0011 00104-0200
5	PG 9	76 0733 0011 00105-0200
	M16 x 1,5	76 0833 0011 00105-0200

Male panel mount connector, front fastened, with single wires, metal housing



4	PG 9	76 0533 1011 00104-0200
5	PG 9	76 0533 1011 00105-0200

Male panel mount connector, dip-solder/front fastened, dip-solder, metal housing



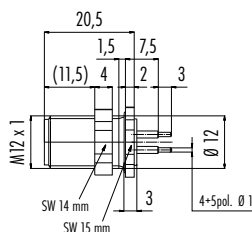
fastened from back side

front fastened



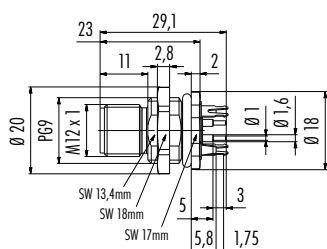
Contacts	Fix. thread	Fastened from back side	Front fastened
4	PG 9	—	86 0533 1000 00004
5	PG 9	86 0133 0000 00005	86 0533 1000 00005

Male panel mount connector, front fastened, dip-solder, metal housing



Contacts	Fix. thread	Ordering-No.
4	M12 x 1	86 1033 1100 00004
5		86 1033 1100 00005

Male panel mount connector, front fastened, dip-solder,
with shielding sheet

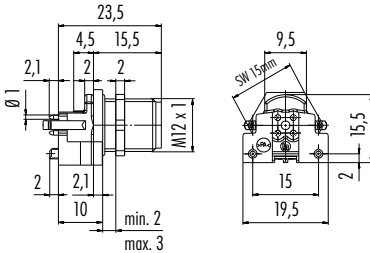
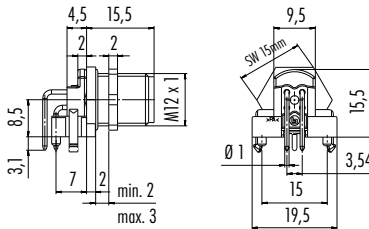
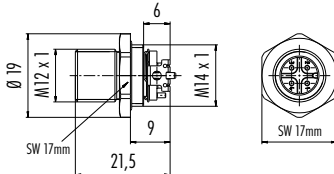
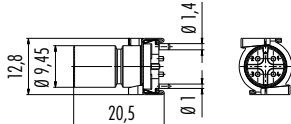
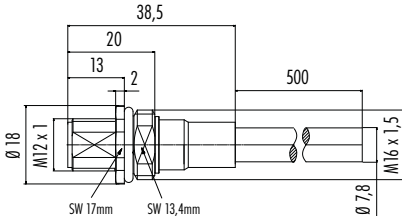
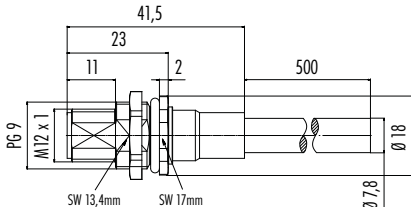


PCB thickness: 1,6 mm

Hexagonal nut enclosed loose



5 PG 9 86 0533 1120 00005

Description		Drawing	Contacts	Ordering-No.		
Male receptacle for PCB assembly		 PCB thickness: 1,6 mm View of mating side	5	99 4445 200 05		
				99 4445 458 05 with shielding sheet		
c us						
Male angled receptacle for PCB assembly		 PCB thickness: 1,6 mm View of mating side	5	99 4445 202 05		
				99 4445 601 05 with shielding sheet		
c us						
			Contacts	Mounting height	Ordering-No.	
Male receptacle, SMT, with housing, shieldable			4	9 mm	99 4431 401 04	
			5		99 4441 401 05	
Male receptacle, SMT, shieldable			4	—	09 0443 601 04	
			5		09 0445 601 05	
c us						
Male panel mount connector M16, with PROFIBUS-cable, shielded			2 x 0,25	0,5 m	M16 x 1,5	70 4433 246 04
Male panel mount connector PG 9, front fastened, with PROFIBUS-cable, shielded		 Hexagonal nut enclosed loose	2 x 0,25	0,5 m	PG 9	70 4433 247 04

Description

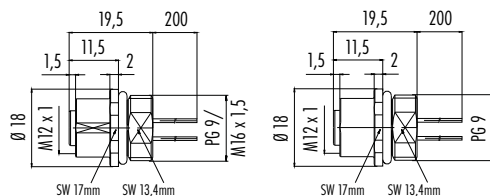
Drawing

Contacts

Fix. thread

Ordering-No.

Female panel mount connector with single wires



Stainless steel version

4

PG 9

76 0134 0011 00104-0200

M16 x 1,5

76 0234 0011 00104-0200

PG 9 Stainless steel

76 2134 0111 00104-0200

PG 9

76 0134 0011 00105-0200

M16 x 1,5

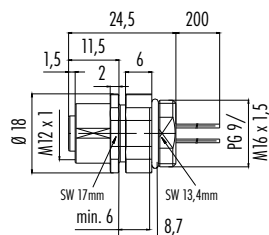
76 0234 0011 00105-0200

PG 9 Stainless steel

76 2134 0111 00105-0200



Female panel mount connector, positioning possible, with single wires, metal housing



4

PG 9

76 0734 0011 00104-0200

M16 x 1,5

76 0834 0011 00104-0200

5

PG 9

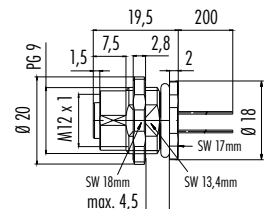
76 0734 0011 00105-0200

M16 x 1,5

76 0834 0011 00105-0200



Female panel mount connector, front fastened, with single wires, metal housing



4

PG 9

76 0534 1011 00104-0200

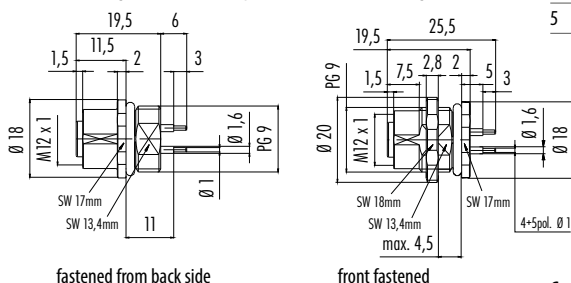
5

PG 9

76 0534 1011 00105-0200



Female panel mount connector, dip-solder, metal housing/front fastened, dip-solder, 6 mm contact length



fastened from back side

front fastened

Contacts

Fix. thread

Fastened from back side

Front fastened

4

PG 9

—

86 0534 1000 00004

5

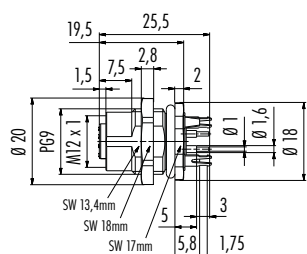
PG 9

86 0134 0000 00005

86 0534 1000 00005



Female panel mount connector, front fastened, dip-solder, with shielding sheet



PCB thickness: 1,6 mm

Hexagonal nut enclosed loose

Contacts

Fix. thread

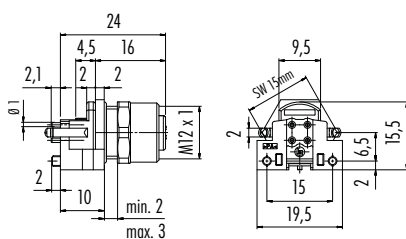
Ordering-No.

5

PG 9

86 0534 1120 00005

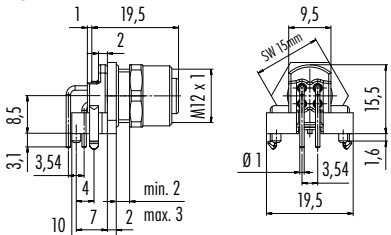
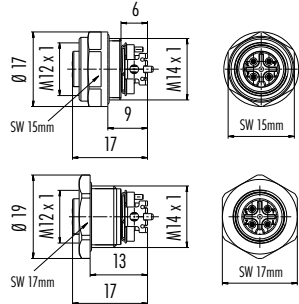
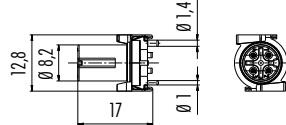
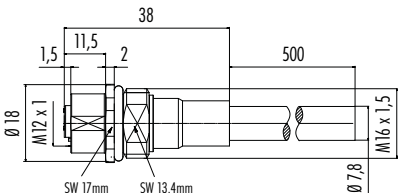
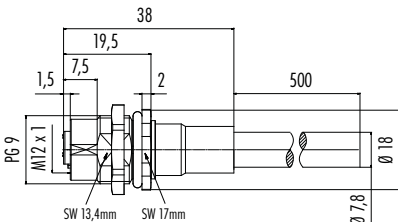
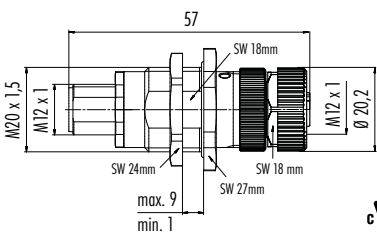
Female receptacle for PCB assembly



PCB thickness: 1,6 mm

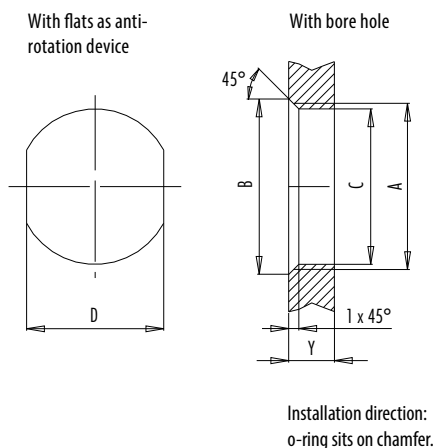
View of mating side



Description		Drawing		Contacts	Ordering-No.
Female angled receptacle for PCB assembly, for PCB mounting		  PCB thickness: 1,6 mm View of mating side		5	99 4442 202 05
					99 4442 601 05 with shielding sheet
Female receptacle, SMT, with housing, shieldable		 		4	9 mm 99 4432 401 04
					13 mm 99 4432 402 04
				5	9 mm 99 4442 401 05
					13 mm 99 4442 402 05
Female receptacle, SMT, shieldable		 		4	— 09 0442 601 04
				5	— 09 0444 601 05
Female panel mount connector M16, with PROFIBUS-cable, shielded		 		2 x 0,25	0,5 m M16 x 1,5 70 4434 246 04
Female panel mount connector PG 9, front fastened, with PROFIBUS-cable, shielded		  Hexagonal nut enclosed loose		2 x 0,25	0,5 m PG 9 70 4434 247 04
Adapter, lead-through for control cabinet, shielded		  c 		4	09 5242 00 04

Panel cut out

Panel mount connector



Thread	A	B (mm)	C (mm)	D (mm)
PG 9		16,2	15,3	13,5
PG 11		20,2	18,7	17,0
PG 13,5		21,5	20,5	—
M12 x 0,5		—	12,1	—
M12 x 1		—	12,2	—
M14 x 1		15,2	14,2	—
M16 x 1,5		17,0	16,1	13,5
M20 x 1,5		21,0	20,1	—

Tightening moment

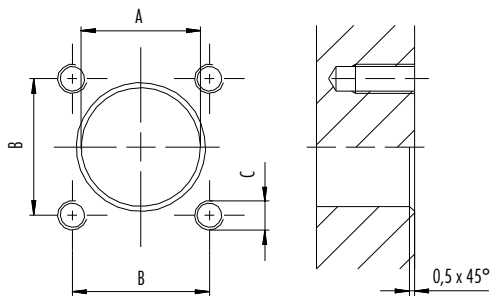
Metal housing	6,25 Nm
Positioning sleeve	6,25 Nm
Metal housing, screw clamp connection	5,00 Nm
Plastic housing	1,25 Nm
Positioning sleeve	1,25 Nm

Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible ¹⁾	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 ²⁾	³⁾ 1,5/ ⁴⁾ 2	6,5

Notes

- ¹⁾ Do not attach a chamfer
- ²⁾ Wall thickness: use locknut 01-5385 up to 1,5 mm >1,5 mm cut thread
- ³⁾ Nut
- ⁴⁾ Thread in wall of housing

Panel mount connector, square flange



Housing	A	B (mm)	C (mm)	D (mm)
Metal		12,2	14,0	M3 (4x)

Requirements for Degree of protection IP67:

1. Metal housing: Use of sealing, Ordering-No. 16 0959 000
2. M3 thread (4x) sealed as a threaded blind holes or screw heads





- Screw locking acc. to DIN EN 61076-2-101 und 109
- Degree of protection IP67
- Moulded versions
- Easy Assembly
- Excellent EMC shielding
- Versions with shielding rings/cable clamp
- Angled connectors adjustable in 4 positions

Description

Drawing

Contacts

Cable outlet

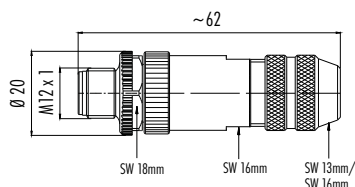
Ordering-No.

Male cable connector, CAT 5, screw clamp termination, with shielding ring, shieldable

4

6–8 mm

99 3729 810 04

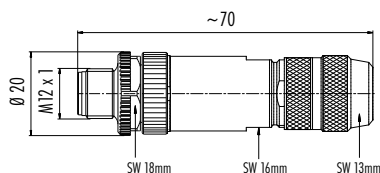


Male cable connector, CAT 5, screw clamp termination, iris type spring, shieldable

4

5–8 mm

99 3727 810 04

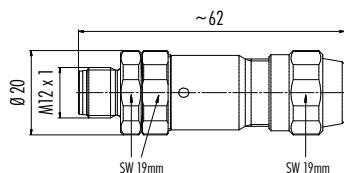


Male cable connector, CAT 5, screw clamp termination, with shielding ring, stainless steel version, shieldable

4

5,5–8,6 mm

99 3729 995 04

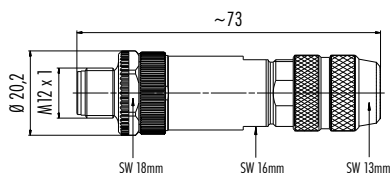


Male cable connector, CAT 5, crimp connection, shieldable

4

5–8 mm

99 3721 810 04



Crimp contacts see page 170

Specifications

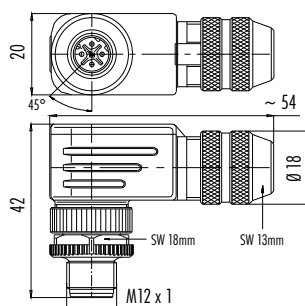
Contacts	4
Wire gauge	max. 0,75 mm ² (max. AWG 20), see crimp contacts page 161, PROFINET 0,34 mm ² (AWG 22)
Mechanical operation	> 100 Mating cycles
Temperature range	– 40 °C / + 85 °C, PROFINET – 25 °C / + 85 °C
Rated voltage	250 V
Pollution degree	3
Rated current (40°C)	4 A
Contact plating	Au (Gold)
Material of housing	zinc diecasting nickel plated, PUR

Description

Male angled connector, CAT 5, screw clamp termination, with shielding ring, shieldable



Drawing



It is possible to turn and fix the contact carrier in 4 different 90° positions



Contacts

4

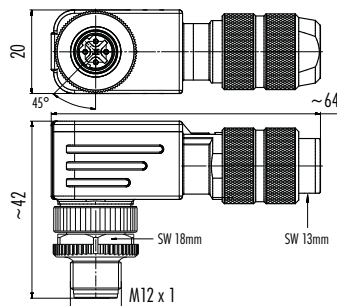
Cable outlet

6–8 mm

Ordering-No.

99 3729 820 04

Male angled connector, CAT 5, screw clamp termination, iris type spring, shieldable



It is possible to turn and fix the contact carrier in 4 different 90° positions

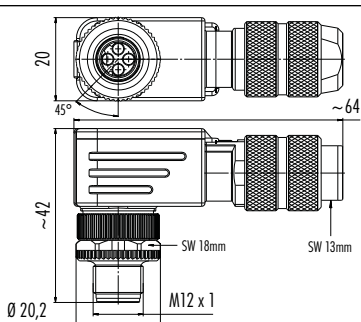


4

5–8 mm

99 3727 820 04

Male angled connector, CAT 5, crimp connection, shieldable



It is possible to turn and fix the contact carrier in 4 different 90° positions



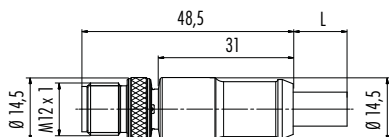
4

5–8 mm

99 3721 820 04

Crimp contacts see page 170

Male cable connector, shielded, PROFINET



Contacts

4 x 0,34

Cable length

2 m

5 m

10 m

Ordering-No.

77 4529 0000 50704–0200

77 4529 0000 50704–0500

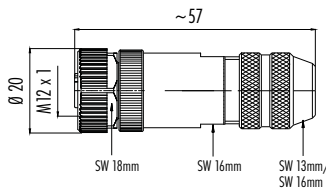
77 4529 0000 50704–1000

Specifications

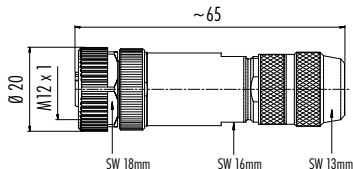
PROFINET Cable

Contacts	4
Wire gauge	2 x 2 x AWG 22
Material jacket	PUR
Insulation of wire	Polyolefin
Design of wire (mm)	7 x 0,34 (AWG 22)
Cable diameter (mm)	6,7
Resistance of wire	55 Ω/Km (20 °C)
Temperature range cable in move	– 20 °C / + 60 °C
Temperature range cable fixed	– 40 °C / + 80 °C
Bending radius cable in move	min. 15 x d
Bending radius cable fixed	min. 5 x d
Bending radius (at 10 x D)	2 Mio.
Permitted acceleration	2 m/s ²
Traverse path horizontal 5 m/s ²	5 m
Traverse path vertical 5 m/s ²	5 m
Traverse speed	At 5 m horizontal traverse up to 200 m/min
Remark	In chain flex application or when stressed mechanically +60 °C.
Approval	PROFINET, UL/CSA
UL-style	AWM 20236

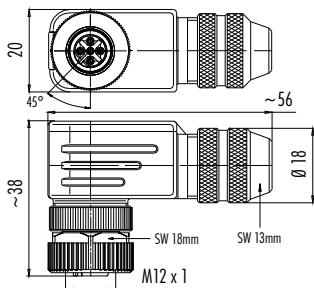
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, CAT 5, screw clamp termination, with shielding ring, shieldable		4	6–8 mm	99 3730 810 04



Female cable connector, CAT 5, screw clamp termination, iris type spring, shieldable		4	5–8 mm	99 3728 810 04
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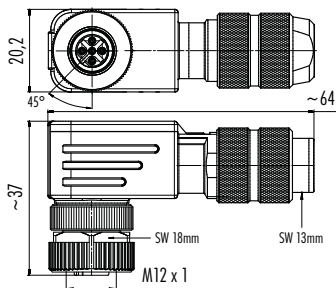
Female angled connector, CAT 5, screw clamp termination, with shielding ring, shieldable		4	5,5–8,6 mm	99 3730 820 04
--	--	---	------------	----------------



It is possible to turn and fix the contact carrier in 4 different 90° positions



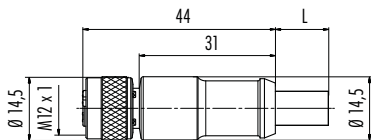
Female angled connector, CAT 5, screw clamp termination, iris type spring, shieldable		4	5–8 mm	99 3728 820 04
---	--	---	--------	----------------



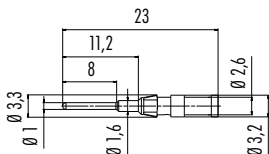
It is possible to turn and fix the contact carrier in 4 different 90° positions



Female cable connector, shielded, PROFINET	Contacts	Cable length	Ordering-No.
	4 x 0,34	2 m	77 4530 0000 50704–0200
		5 m	77 4530 0000 50704–0500
		10 m	77 4530 0000 50704–1000

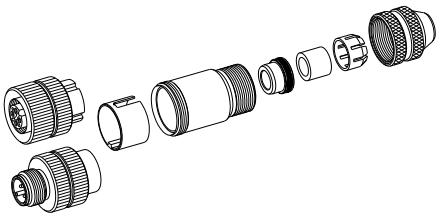


Single contact (Male), PU 100 pieces	Wire gauge	AWG	Ordering-No.
	0,14 mm² – 0,34 mm²	26–22	61 1224 146
	0,34 mm² – 0,5 mm²	22–20	61 1154 146
	0,75 mm² – 1,0 mm²	18–16	61 1225 146
	1,0 mm² – 1,5 mm²	16	61 1226 146



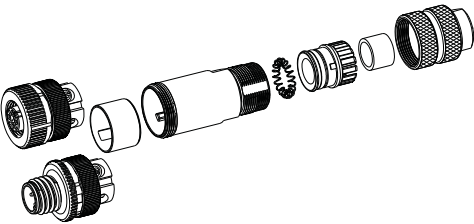
Component part drawing

Cable connectors, with shielding ring, shieldable



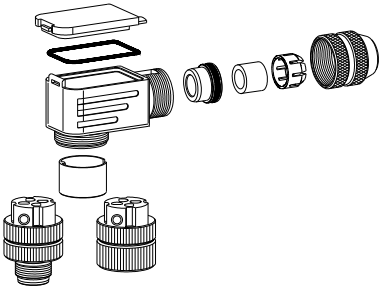
- Female insert/
Male insert
- Insulating sleeve tightly
built into coupling sleeve
- Shielding ring
- O-ring
- Seal
- Pinch ring
- Pressing screw

Cable connectors, with iris type spring, shieldable



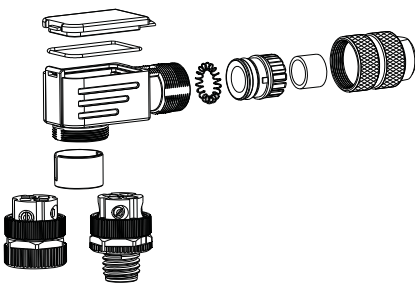
- Female insert/
Male insert
- Insulating sleeve, Sleeve,
Pressing spring, O-ring,
Pinch ring, Seal,
Pressing screw
are premounted

Angled connectors, shieldable



- Female insert/
Male insert
- Insulating sleeve tightly
built into coupling sleeve
- Housing
- Seal
- Cover
- Shielding ring
- O-ring
- Seal
- Pinch ring
- Pressing screw

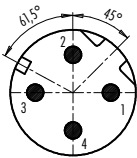
Angled connectors, with iris type spring, shieldable



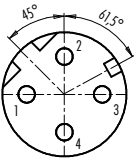
- Female insert/
Male insert
- Insulating sleeve, Housing,
Pressing spring, O-ring,
Pinch ring, Seal,
Pressing screw
are premounted
- O-ring
Cover

Contact arrangements male insert (mating side)

4 contacts

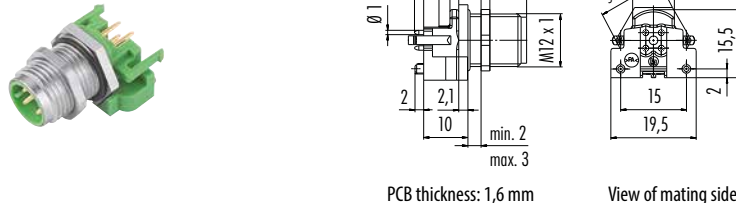
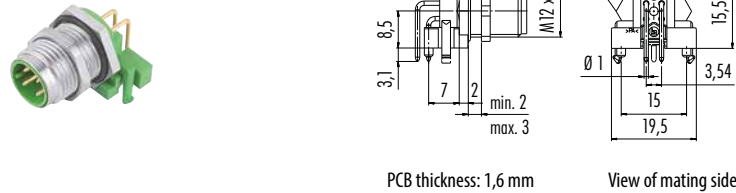
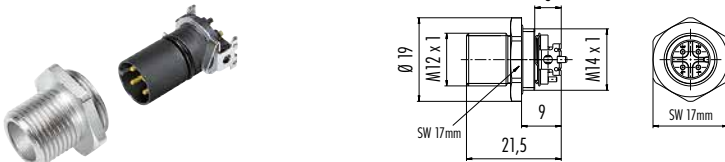
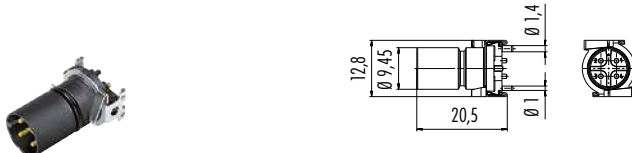
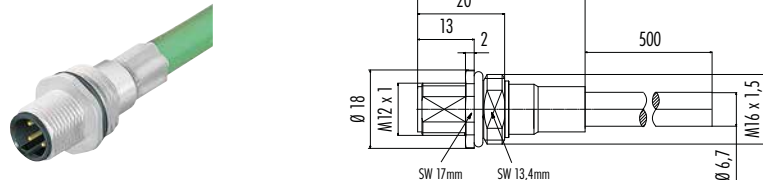
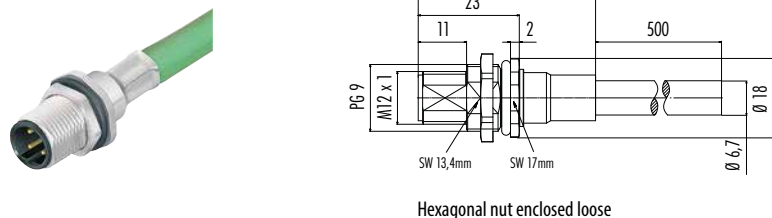


Contact arrangements female insert (mating side)



Colour of wire, moulded cable and panel mount connectors

- 1 white-orange
- 2 orange
- 3 white-green
- 4 green
- Shield = Coupling ring

Description	Drawing	Contacts	Ordering-No.
Male receptacle for PCB assembly		4	99 3731 200 04 99 3731 201 04 with shielding sheet
Male angled receptacle for PCB assembly		4	99 3731 202 04 99 3731 203 04 with shielding sheet
Male receptacle, SMT, with housing, shieldable		4	9 mm 99 3731 401 04
Male receptacle, SMT, shieldable		4	— 09 0731 601 04
Male panel mount connector M16, with PROFINET-cable, shielded		4	0,5 m M16 x 1,5 70 3733 705 04
Male panel mount connector PG 9, front fastened, with PROFINET-cable, shielded		4	0,5 m PG 9 70 3733 706 04
	Hexagonal nut enclosed loose		

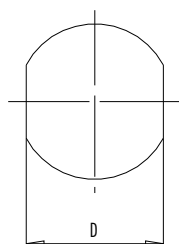
■ **Automation Technology 825 series**

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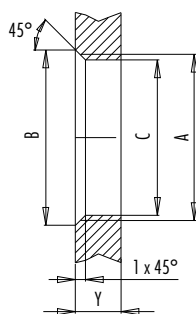
Panel cut out

Panel mount connector

With flats as anti-rotation device



With bore hole



Installation direction:
o-ring sits on chamfer.

Thread A	B (mm)	C (mm)	D (mm)
PG 9	16,2	15,3	13,5
PG 11	20,2	18,7	17,0
PG 13,5	21,5	20,5	—
M12 x 0,5	—	12,1	—
M12 x 1	—	12,2	—
M14 x 1	15,2	14,2	—
M16 x 1,5	17,0	16,1	13,5
M20 x 1,5	21,0	20,1	—

Tightening moment

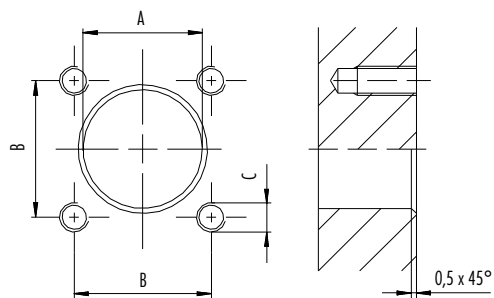
Metal housing	6,25 Nm
Positioning sleeve	6,25 Nm
Metal housing, screw clamp connection	5,00 Nm
Plastic housing	1,25 Nm
Positioning sleeve	1,25 Nm

Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible ¹⁾	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 ²⁾	³⁾ 1,5/ ⁴⁾ 2	6,5

Notes

- ¹⁾ Do not attach a chamfer
- ²⁾ Wall thickness:
use locknut 01-5385 up to 1,5 mm
>1,5 mm cut thread
- ³⁾ Nut
- ⁴⁾ Thread in wall of housing

Panel mount connector, square flange



Housing A	B (mm)	C (mm)	D (mm)
Metal	12,2	14,0	M3 (4x)

Requirements for Degree of protection IP67:

1. Metal housing: Use of sealing, Ordering-No. 16 0959 000
2. M3 thread (4x) sealed as a threaded blind holes or screw heads

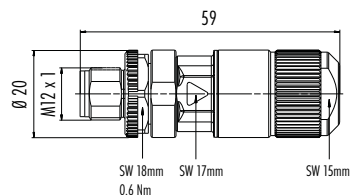
- Connector for Ethernet
- Versions for assembly
- Moulded versions IP67
- Excellent EMC shielding



Description

Male cable connector, IDT connection, shieldable, IP67

Drawing



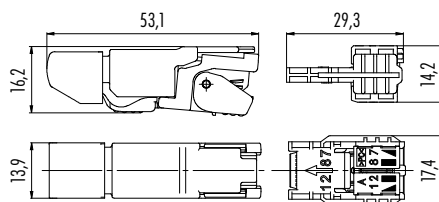
Contacts

Cable outlet
8 5,5–9 mm

Ordering-No.
99 3787 810 08



RJ45-male connector, shieldable, IP20



Contacts T568

Cable outlet

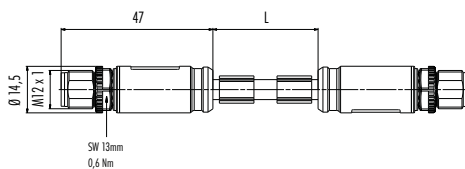
Wire gauge

Ordering-No.

4	Profinet	AWG 24–22/1 AWG 27–22/7	99 9647 810 04
8	A	AWG 26–24/1 AWG 27–24/7	99 9687 805 08
		AWG 24–22/1 AWG 27–22/7	99 9687 810 08
8	B	AWG 26–24/1 AWG 27–24/7	99 9687 809 08
		AWG 24–22/1 AWG 27–22/7	99 9687 814 08



Connecting cable, 2 male cable connectors M12 x 1, shielded, IP67



Contacts

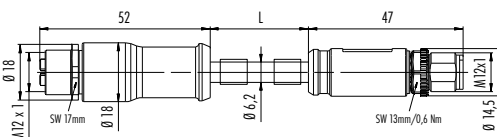
Cable length, PUR

Ordering-No.

8	2 m	79 9722 020 08
	5 m	79 9722 050 08
	10 m	79 9722 100 08



Connecting cable, Male cable connector M12 x 1 – Female cable connector, M12 x 1, shielded



8

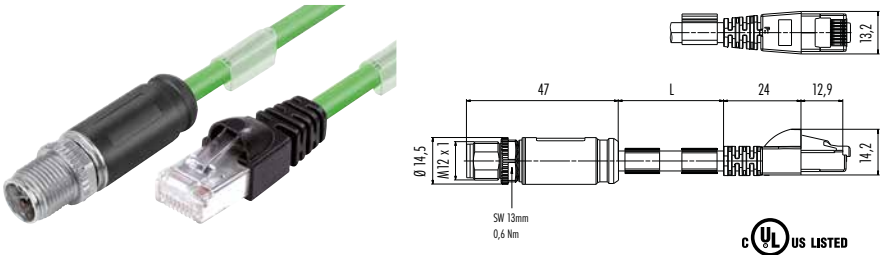
2 m	79 9724 020 08
5 m	79 9724 050 08
10 m	79 9724 100 08



Specifications

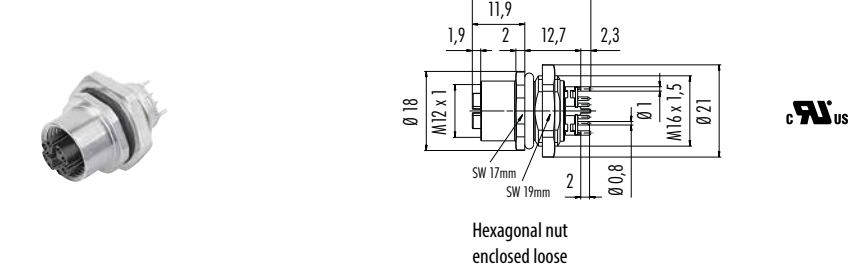
Contacts	8 Male cable connector	4, 8 RJ45	8 Connecting cable
Wire gauge	AWG 27 – AWG 22		AWG 26/7
Mechanical operation	> 100 Mating cycles	> 750 Mating cycles	> 100 Mating cycles
Temperature range	– 40 °C / + 85 °C		
Rated voltage	50 V AC, 60 V DC	50 V DC	50 V AC, 60 V DC
Pollution degree	3	2	3
Rated current (40°C)	0,5 A	1 A	0,5 A
Contact plating	Au (Gold)		
Material of housing	CuZn (brass nickel plated), zinc diecasting nickel plated	zinc diecasting nickel plated	PUR

Connecting cable, male cable connector M12 x 1 – RJ45-male connector, shielded, IP67



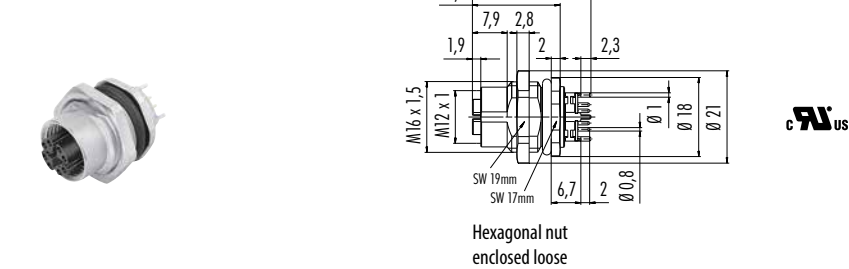
Contacts	Cable length, PUR	Ordering-No.
8	2 m	79 9723 020 08
	5 m	79 9723 050 08
	10 m	79 9723 100 08

Female panel mount connector, dip-solder



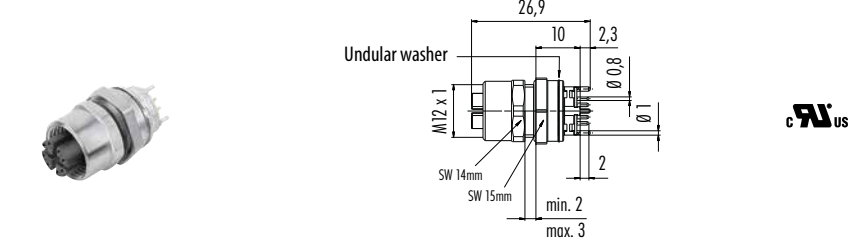
Contacts	Fixing thread	Ordering-No.
8	M16 x 1,5	09 3782 95 08

Female panel mount connector, front fastened, dip-solder



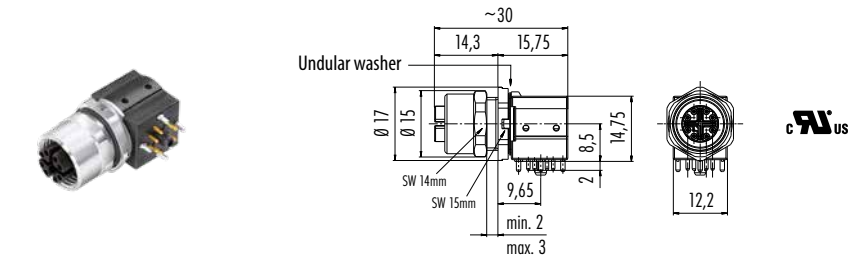
8	M16 x 1,5	09 3782 91 08
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Female panel mount connector, dip-solder, contact carrier fix/flexible mounting via undular washer



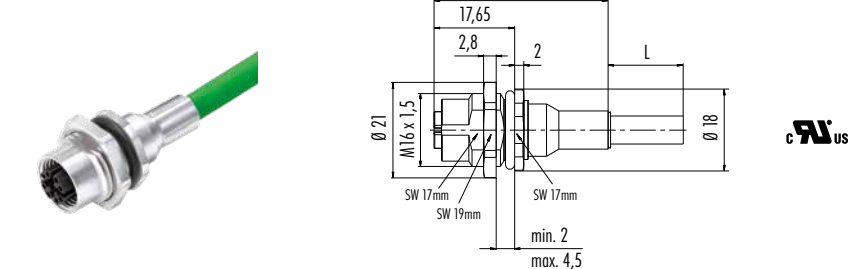
Contacts	Fix. thread	Contact carrier	Ordering-No.
8	M16 x 1,5	fix	99 3782 210 08
		via undular washer	99 3782 200 08

Female angled panel mount connector, dip solder, contact carrier fix/flexible mounting via undular washer



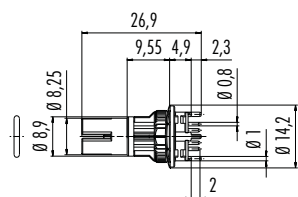
8	M16 x 1,5	fix	99 3782 213 08
		via undular washer	99 3782 202 08

Female panel mount connector, front fastened, with Ethernet cable



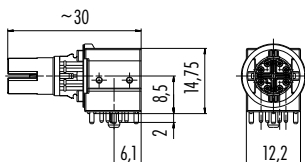
Contacts	Fix. thread	Cable length	Ordering-No.
8	M16 x 1,5	0,5 m	70 3784 706 08

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Contact insert, dip-solder, for mounting in customer housing		8	M16 x 1,5	09 3782 95 08



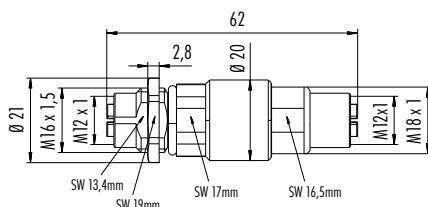
0-ring enclosed
loose

Contact insert, angled, dip solder, for mounting in customer housing	8	09 3782 202 08
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CAI[®] US

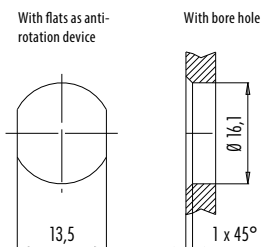
Adapter, lead through for control cabinet, female-female, shielded	8	09 5286 00 08
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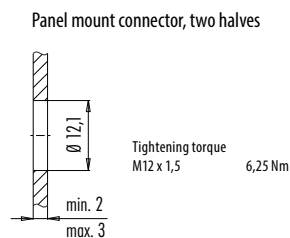
Contact arrangement male insert (mating side)	Contact arrangement female insert (mating side)	Colour of wire, moulded cable and panel mount connectors
4 contacts		1 white-orange 2 orange 3 white-green 4 green 5 white-brown 6 brown 7 white-blue 8 blue
		Shield on housing

Panel cut out

Panel mount connector

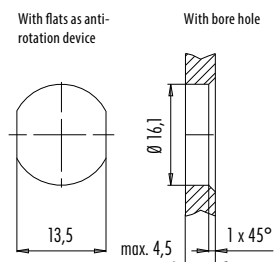


Tightening torque	
Metal housing	6,25 Nm
Plastic housing	3,75 Nm



Tightening torque
M12 x 1,5 6,25 Nm

Panel mount connector, front fastened



Tightening torque	
Metal housing	6,25 Nm
Plastic housing	3,75 Nm





- Screw locking acc. to DIN EN 61076-2-111
- Degree of protection IP67
- Easy assembly
- Power supply up to 630 V AC/12 A
- Angled connectors adjustable in 4 positions
- Panel mount connector with single wires/screw clamp contacts

Description

Drawing

Contacts

Cable outlet

Ordering-No.

Male cable connector, for power supply

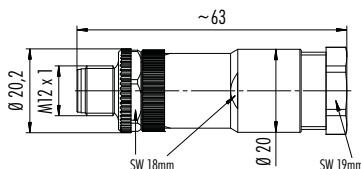
2+PE

8–10 mm

99 0685 19 03

3+PE

99 0689 19 04

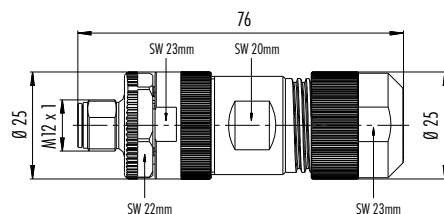


Male cable connector, K-Coding, screw clamp termination, Power

4+PE

8–13 mm

99 0699 29 05

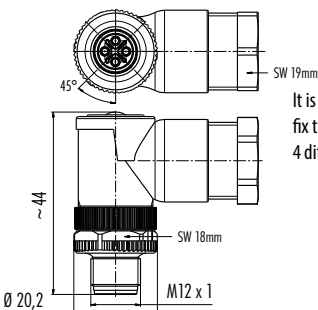


Male angled connector, for power supply

3+PE

8–10 mm

99 0689 58 04



It is possible to turn and fix the contact carrier in 4 different 90° positions



Male cable connector, for power supply, moulded, PUR (black)

Contacts

Cable length, PUR

Ordering-No.

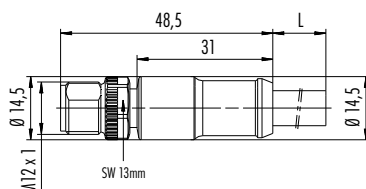
3+PE

2 m

77 0689 0000 50704-0200

5 m

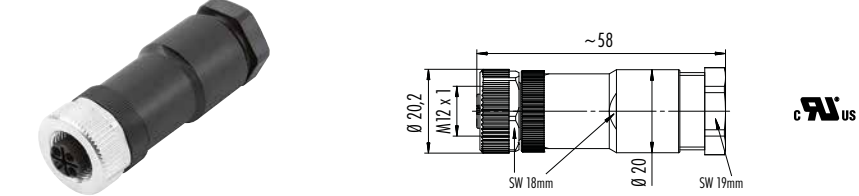
77 0689 0000 50704-0500



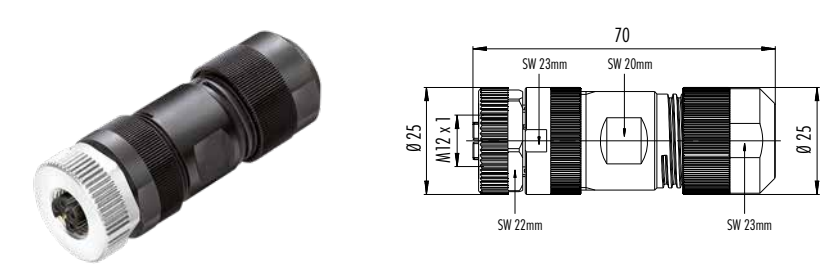
Specifications

Contacts	2+PE	3+PE	4+PE
Wire gauge	M12-S: max. 2,5 mm ² (max. AWG 14)	M12-S: max. 1,5 mm ² (max. AWG 16)	M12-K: max. 2,5 mm ² (max. AWG 14)
Mechanical operation	> 100 Mating cycles		
Temperature range	– 40 °C / + 85 °C		
Rated voltage	630 V		
Pollution degree	3		
Rated current (40°C)	16 A	12 A	
Contact plating	Au (Gold)		
Material of housing	PA		

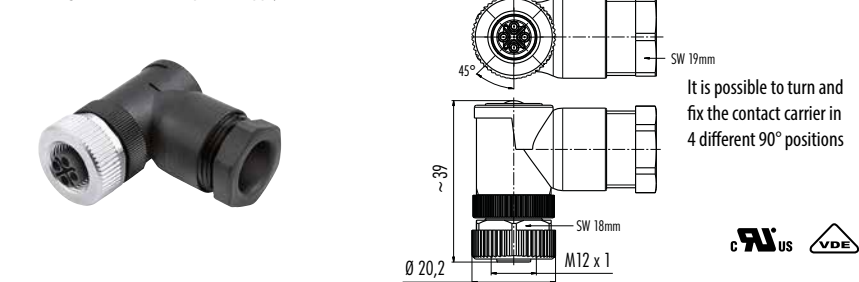
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, for power supply		2+PE	8–10 mm	99 0686 19 03
		3+PE		99 0690 19 04



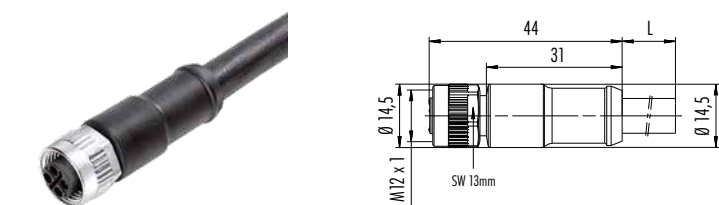
Female cable connector, K-Coding, screw clamp termination, Power	4+PE	8–13 mm	99 0700 29 05
--	------	---------	---------------



Female angled connector, for power supply	3+PE	8–10 mm	99 0690 58 04
---	------	---------	---------------



Female cable connector, for power supply, moulded, PUR (black)	Contacts	Cable length, PUR	Ordering-No.
	3+PE	2 m 5 m	77 0690 0000 50704-0200 77 0690 0000 50704-0500



Component part drawing

Cable connectors

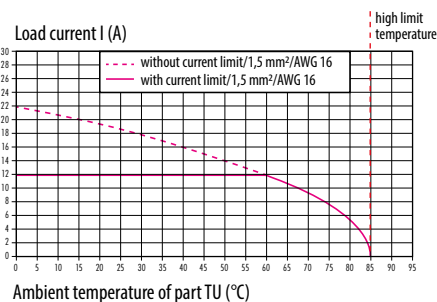
Female insert/
Male insert
Sleeve
Seal
Pinch ring
Pressing screw

Angled connectors

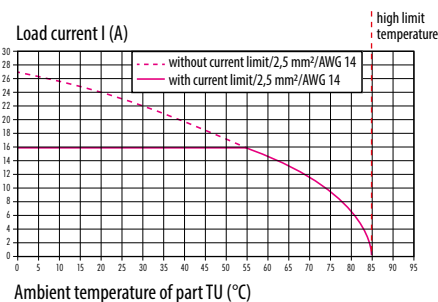
Female insert/
Male insert
Angled housing
Seal
Pinch ring
Pressing screw

Rating

Derating curve according to DIN EN 60512 for POWER cable connectors S-Coding 3+PE contacts

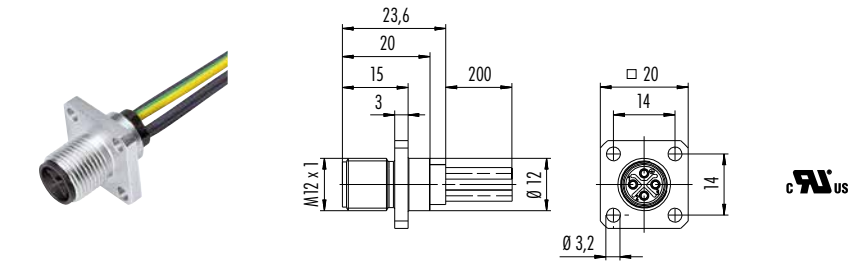


Derating curve according to DIN EN 60512 for POWER cable connectors K-Coding 4+PE contacts



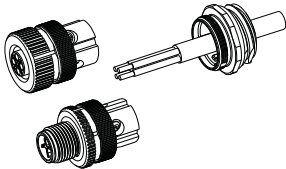
Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, screw clamp termination		3+PE	M20 x 1,5	99 0693 500 04
Male panel mount connector, with single wires, plastic housing		3+PE x AWG 16	M16 x 1,5	09 0691 300 04
Male panel mount connector, front fastened, with single wires, plastic housing		3+PE x AWG 16	M16 x 1,5	09 0691 320 04
Male panel mount connector, with single wires		2+PE x AWG 16 3+PE x AWG 16	M16 x 1,5	09 0687 700 03 09 0691 700 04
Male panel mount connector, rectangular flange, with single wires		3+PE x AWG 16	M16 x 1,5	09 0691 121 04
Male panel mount connector, with single wires, M20 x 1,5		3+PE x AWG 16	M20 x 1,5	09 0691 642 04

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, rectangular flange, with single wires, metal housing, IP40 without sealing, IP67 with sealing (16 0959 000)		3+PE x AWG 16	–	09 0691 070 04



Component part drawing

Panel mount connector, screw clamp termination, not shieldable



Contact arrangements male insert (mating side)

2+PE contacts



3+PE contacts



Contact arrangements female insert (mating side)



Colour of wire

2+PE contacts	3+PE contacts
1 black 1	1 black 1
2 not connected 2	2 black 2
3 black 3	3 black 3
⊕ yellow/green	⊕ yellow/green

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Female panel mount connector, screw clamp termination		3+PE	M20 x 1,5	99 0694 500 04
Female panel mount connector, with single wires, plastic housing		3+PE x AWG 16	M16 x 1,5	09 0692 300 04
Female panel mount connector, front fastened, with single wires, plastic housing		3+PE x AWG 16	M16 x 1,5	09 0692 321 04
Female panel mount connector, with single wires		2+PE x AWG 16 3+PE x AWG 16	M16 x 1,5	09 0688 700 03 09 0692 700 04
Female panel mount connector, front fastened, with single wires		3+PE x AWG 16	M16 x 1,5	09 0692 121 04
Female panel mount connector, with single wires, M20 x 1,5		3+PE x AWG 16	M20 x 1,5	09 0692 642 04

Description

Female panel mount connector, rectangular flange, with single wires, metal housing, IP40 without sealing, IP67 with sealing (16 0959 000)

Drawing

Contacts

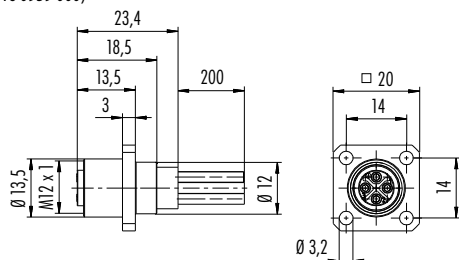
Fixing thread

Ordering-No.

3+PE x AWG 16

—

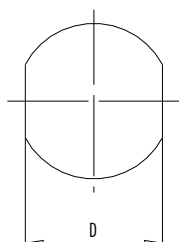
09 0692 070 04



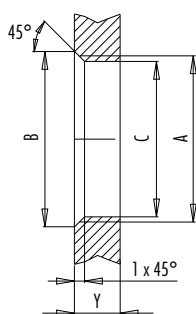
Panel cut out

Panel mount connector

With flats as anti-rotation device



With bore hole



Installation direction:
o-ring sits on chamfer.

Thread A	B (mm)	C (mm)	D (mm)
PG 9	16,2	15,3	13,5
PG 11	20,2	18,7	17,0
PG 13,5	21,5	20,5	—
M12 x 0,5	—	12,1	—
M12 x 1	—	12,2	—
M14 x 1	15,2	14,2	—
M16 x 1,5	17,0	16,1	13,5
M20 x 1,5	21,0	20,1	—

Tightening moment

Metal housing	6,25 Nm
Positioning sleeve	6,25 Nm
Metal housing, screw clamp connection	5,00 Nm
Plastic housing	1,25 Nm
Positioning sleeve	1,25 Nm

Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible ¹⁾	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 ²⁾	³⁾ 1,5/ ⁴⁾ 2	6,5

Notes

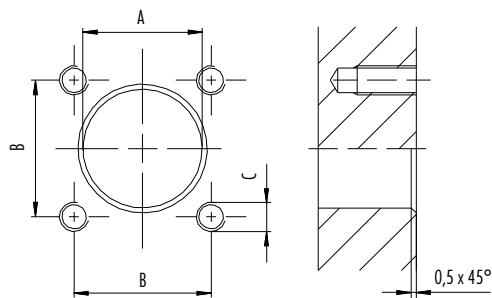
¹⁾ Do not attach a chamfer

²⁾ Wall thickness:
use locknut 01-5385 up to 1,5 mm
>1,5 mm cut thread

³⁾ Nut

⁴⁾ Thread in wall of housing

Panel mount connector, square flange



Housing A	B (mm)	C (mm)	D (mm)
Metal	12,2	14,0	M3 (4x)
Plastic	20,0	20,0	M3 (4x)

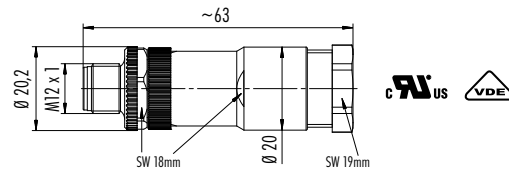
Requirements for Degree of protection IP67:

1. Metal housing: Use of sealing, Ordering-No. 16 0959 000
2. Plastic housing: Use of sealing, Ordering-No. 16 8091 000
3. M3 thread (4x) sealed as a threaded blind holes or screw heads

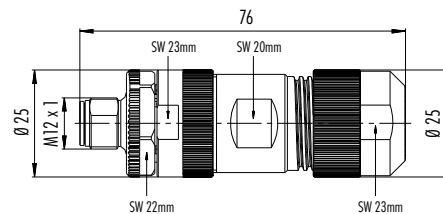


- Screw locking acc. to DIN EN 61076-2-111
- Degree of protection IP67
- Easy assembly
- Power supply up to 63 V DC/12 A
- Angled connectors adjustable in 4 positions
- Panel mount connector with single wires/dip-solder/screw clamp contacts

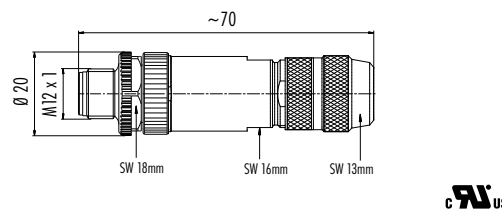
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Male cable connector, for power supply		4	8–10 mm	99 0629 19 04



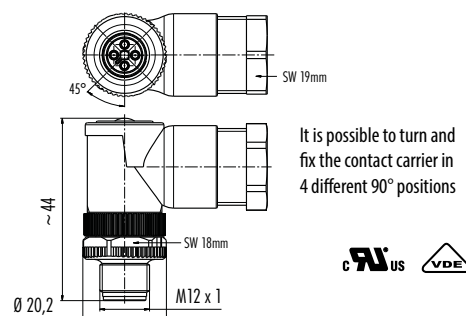
Male cable connector, L-Coding, screw clamp termination, Power		4+FE	8–13 mm	99 0639 29 05
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Male cable connector, for power supply, iris type spring, shieldable	4	5–8 mm	99 1631 814 04
		8–9 mm	99 1631 812 04

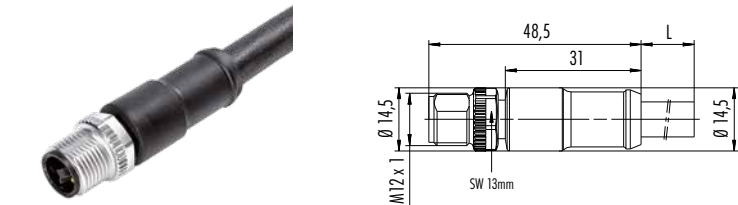


Male angled connector, for power supply		4	8–10 mm	99 0629 58 04
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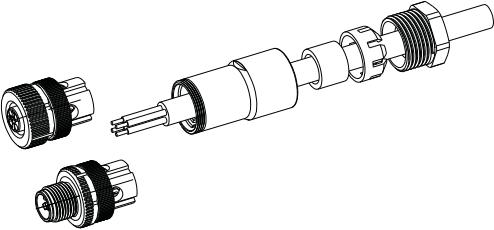
Specifications		
Contacts	4	4+FE
Wire gauge	M12-T: max. 1,5 mm ² (max. AWG 16)	M12-L: max. 2,5 mm ² (max. AWG 14)
Mechanical operation	> 100 Mating cycles	
Temperature range	– 40 °C /+ 85 °C	
Rated voltage	63 V	
Pollution degree	3	
Rated current (40°C)	M12-T: 12 A	M12-L: 16 A
Contact plating	Au (Gold)	
Material of housing	PA	

Description	Drawing	Contacts	Cable length, PUR	Ordering-No.
Male cable connector, for power supply, moulded, PUR (black)		4	2 m	77 0629 0000 50704-0200
			5 m	77 0629 0000 50704-0500



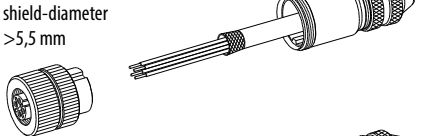
Component part drawing

Cable connectors, not shieldable



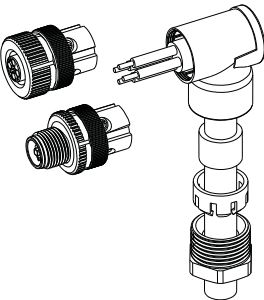
Female insert/
Male insert
Sleeve/
Seal
Pinch ring
Pressing screw

Cable connectors, iris type spring, shieldable

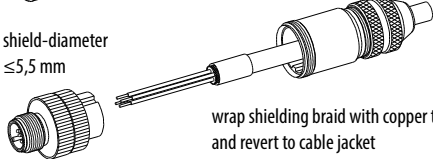


Female insert/
Male insert
Sleeve
Seal
Pinch ring
Pressing screw:
screw down with
≥100 cNm

Angled connectors, not shieldable



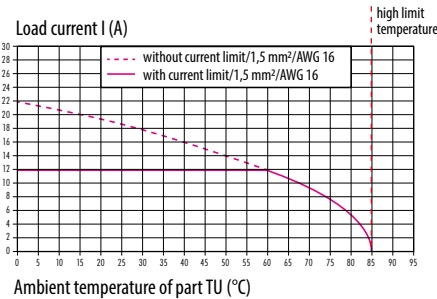
Female insert/
Male insert
Angled housing
Seal
Pinch ring
Pressing screw



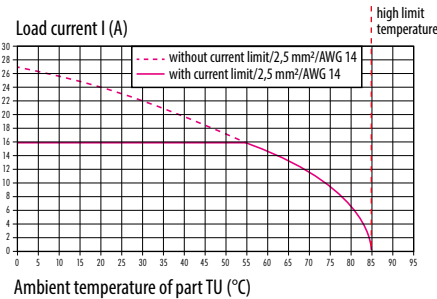
wrap shielding braid with copper tape
and revert to cable jacket

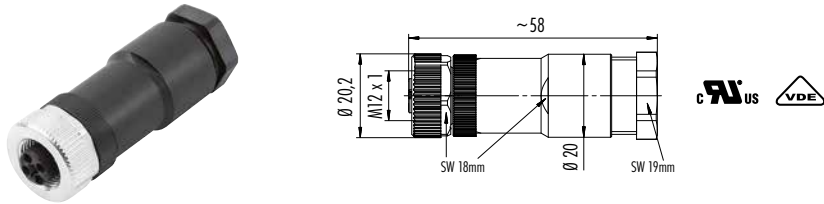
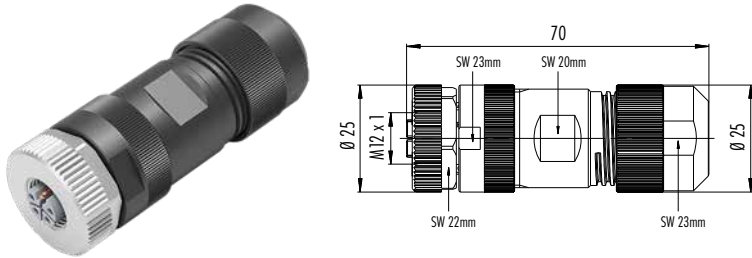
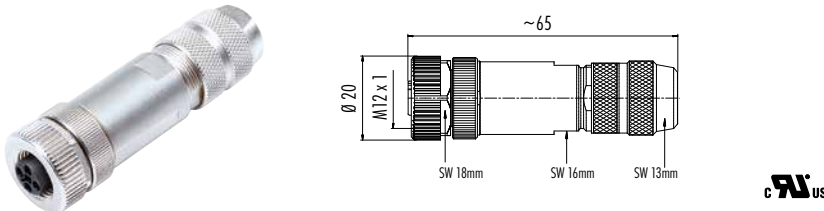
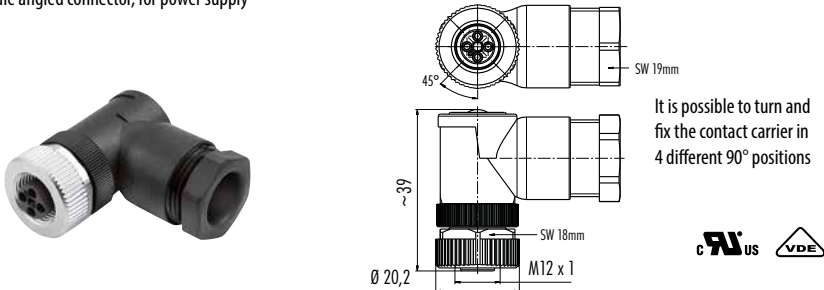
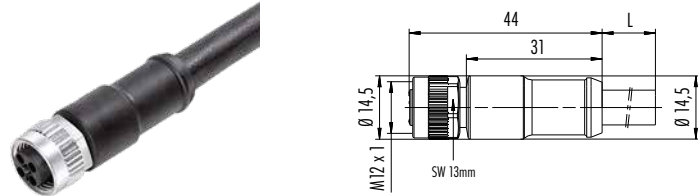
Rating

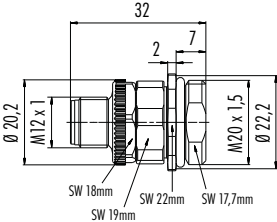
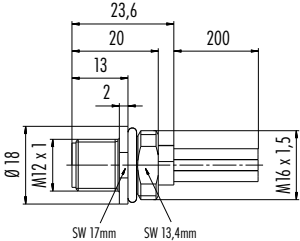
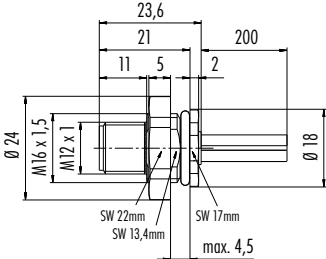
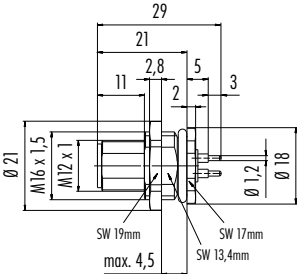
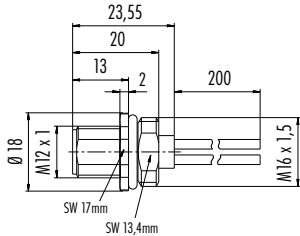
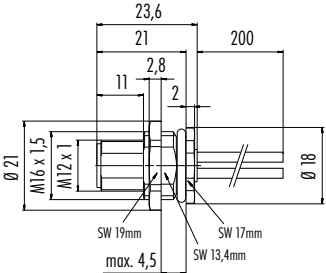
Derating curve
according to DIN EN 60512 for
POWER cable connectors
T-Coding 4 contacts



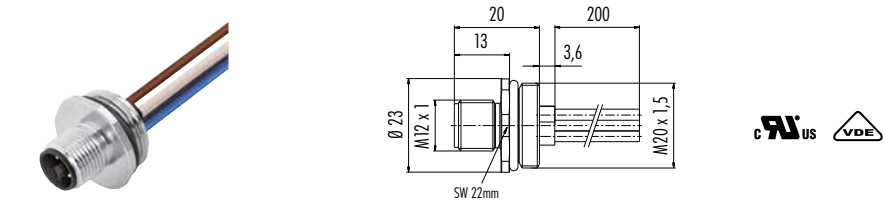
Derating curve
according to DIN EN 60512 for
POWER cable connectors
L-Coding 4+FE contacts



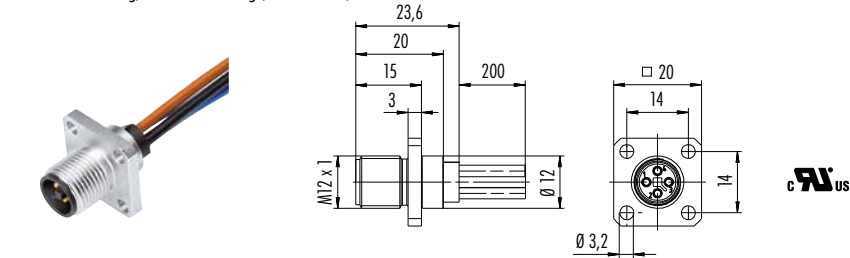
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female cable connector, for power supply		4	8–10 mm	99 0630 19 04
Female cable connector, L-Coding, screw clamp termination, Power		4+FE	8–13 mm	99 0640 29 05
Female cable connector, for power supply, iris type spring, shieldable		4	5–8 mm 8–9 mm	99 1632 814 04 99 1632 812 04
Female angled connector, for power supply		4	8–10 mm	99 0630 58 04
Female cable connector, for power supply, moulded, PUR (black)		4	2 m 5 m	77 0630 0000 50704-0200 77 0630 0000 50704-0500

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, screw clamp termination	  	4	M20 x 1,5	99 0633 500 04
Male panel mount connector with single wires, plastic housing	 	4	M16 x 1,5	09 0631 300 04
Male panel mount connector, front fastened, with single wires, plastic housing	 	4	M16 x 1,5	09 0631 320 04
Male panel mount connector, front fastened, dip-solder	  	4	M16 x 1,5	09 0631 90 04
Male panel mount connector, with single wires	  	4 x AWG 16	M16 x 1,5	09 0631 700 04
Male panel mount connector, front fastened, with single wires	  	4 x AWG 16	M16 x 1,5	09 0631 120 04

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, with single wires, M20 x 1,5		4 x AWG 16	M20 x 1,5	09 0631 642 04

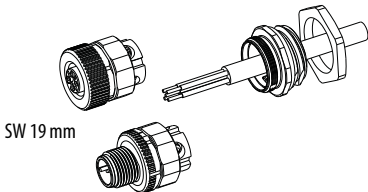


Male panel mount connector, rectangular flange, with single wires, metal housing, IP40 without sealing, IP67 with sealing (16 0959 000)		4 x AWG 16	—	09 0631 070 04
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Component part drawing

Panel mount connector, screw clamp termination, not shieldable



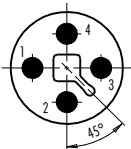
Wire cross section
max. 1,5 mm² 4 contacts

Contact insert
4 x 90° adjustable

Tightening torque
SW 19 Nut = 5 Nm
M20 x 1,5 = 5 Nm

Contact arrangements male insert (mating side)

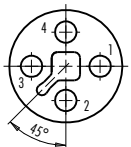
4 contacts



Contact arrangements female insert (mating side)

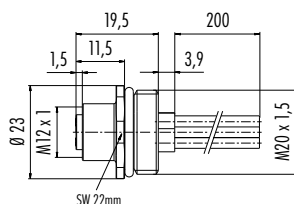
Colour of wire

- 1 brown
- 2 white
- 3 blue
- 4 black



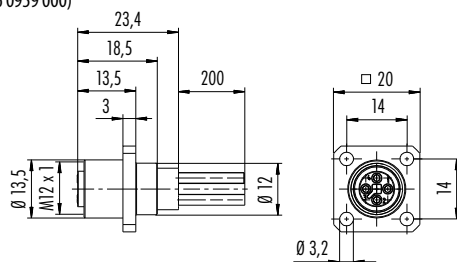
Description	Drawing	Contacts	Fixing thread	Ordering-No.
Female panel mount connector, screw clamp termination		4	M20 x 1,5	99 0634 500 04
Female panel mount connector with single wires, plastic housing		4 x AWG 16	M16 x 1,5	09 0632 300 04
Female panel mount connector, front fastened, with single wires, plastic housing		4 x AWG 16	M16 x 1,5	09 0632 321 04
Female panel mount connector, front fastened, dip-solder		4	M16 x 1,5	09 0632 90 04
Female panel mount connector, with single wires		4 x AWG 16	M16 x 1,5	09 0632 700 04
Female panel mount connector, front fastened, with single wires		4 x AWG 16	M16 x 1,5	09 0632 120 04

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Female panel mount connector, with single wires, M20 x 1,5		4 x AWG 16	M20 x 1,5	09 0632 642 04



Female panel mount connector, rectangular flange, with single wires, metal housing, IP40 without sealing, IP67 with sealing (16 0959 000)

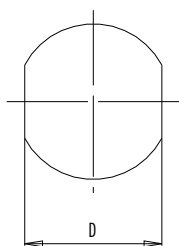
4 x AWG 16	—	09 0632 070 04
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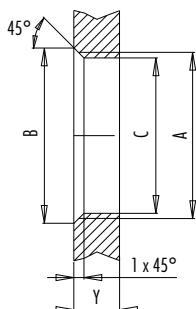
Panel cut out

Panel mount connector

With flats as anti-rotation device



With bore hole



Installation direction:
o-ring sits on chamfer.

Thread A	B (mm)	C (mm)	D (mm)
PG 9	16,2	15,3	13,5
PG 11	20,2	18,7	17,0
PG 13,5	21,5	20,5	—
M12 x 0,5	—	12,1	—
M14 x 1	15,2	14,2	—
M16 x 1,5	17,0	16,1	13,5
M20 x 1,5	21,0	20,1	—

Tightening moment

Metal housing	6,25 Nm
Positioning sleeve	6,25 Nm
Metal housing, screw clamp connection	5,00 Nm
Plastic housing	1,25 Nm
Positioning sleeve	1,25 Nm

Thickness of wall **Y** (mm)

Version	min (mm)	max (mm)
Fastened from back side	2	3,5
Front fastened	2	4,5
Positioning possible ¹⁾	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 ²⁾	³⁾ 1,5/ ⁴⁾ 2	6,5

Notes

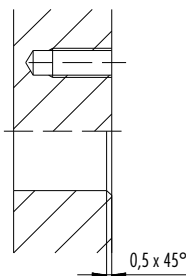
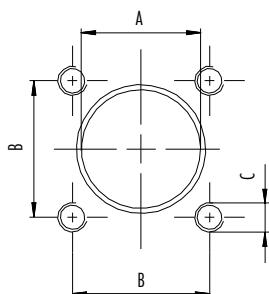
1) Do not attach a chamfer

2) Wall thickness:
use locknut 01-5385 up to 1,5 mm
>1,5 mm cut thread

3) Nut

4) Thread in wall of housing

Panel mount connector, square flange



Housing A	B (mm)	C (mm)	D (mm)
Metal	12,2	14,0	M3 (4x)
Plastic	20,0	20,0	M3 (4x)

Requirements for Degree of protection IP67:

1. Metal housing: Use of sealing, Ordering-No. 16 0959 000
2. Plastic housing: Use of sealing, Ordering-No. 16 8091 000
3. M3 thread (4x) sealed as a threaded blind holes or screw heads





- Screw locking 7/8"
- Degree of protection IP67
- Moulded versions IP68
- Easy assembly
- Angled connectors adjustable in 8 positions
- Panel mount connector with single wires/dip-solder contacts

Description	Drawing	Contacts	Cable length, PUR	Ordering-No.
Male cable connector, moulded		3 x 1,5	2 m	77 1429 0000 50003-0200
			5 m	77 1429 0000 50003-0500
			10 m	77 1429 0000 50003-1000
		4 x 1,5	2 m	77 1429 0000 50004-0200
			5 m	77 1429 0000 50004-0500
			10 m	77 1429 0000 50004-1000
		5 x 1,5	2 m	77 1429 0000 50005-0200
			5 m	77 1429 0000 50005-0500
			10 m	77 1429 0000 50005-1000

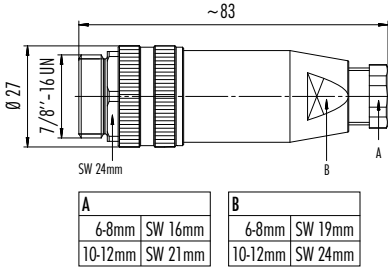
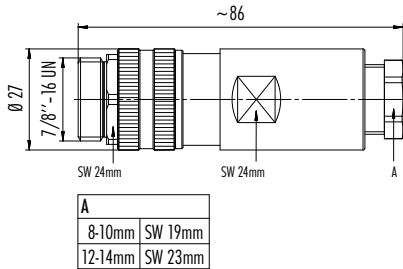
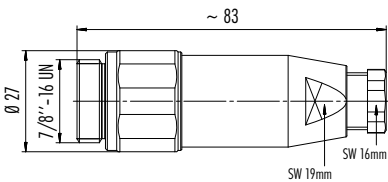
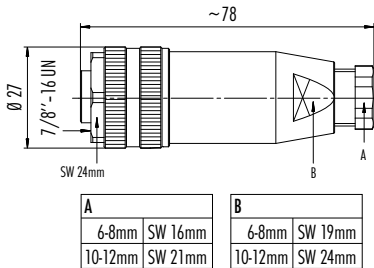
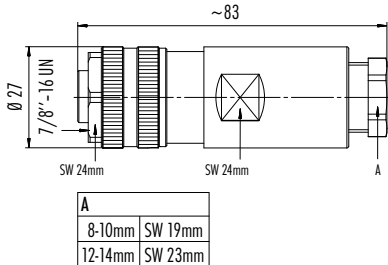
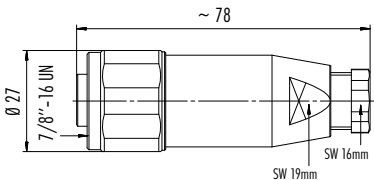
Male angled connector, moulded		3 x 1,5	2 m	77 1427 0000 50003-0200
			5 m	77 1427 0000 50003-0500
			10 m	77 1427 0000 50003-1000
		4 x 1,5	2 m	77 1427 0000 50004-0200
			5 m	77 1427 0000 50004-0500
			10 m	77 1427 0000 50004-1000
		5 x 1,5	2 m	77 1427 0000 50005-0200
			5 m	77 1427 0000 50005-0500
			10 m	77 1427 0000 50005-1000

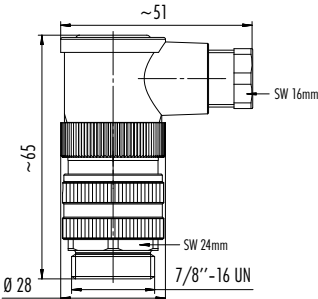
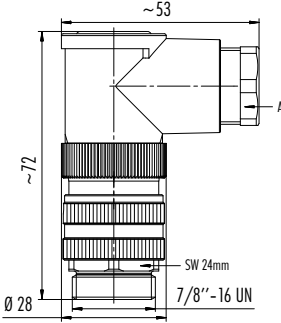
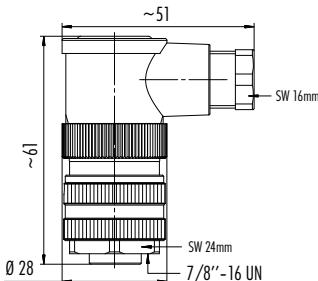
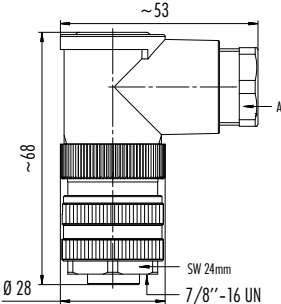
Female cable connector, moulded		3 x 1,5	2 m	77 1430 0000 50003-0200
			5 m	77 1430 0000 50003-0500
			10 m	77 1430 0000 50003-1000
		4 x 1,5	2 m	77 1430 0000 50004-0200
			5 m	77 1430 0000 50004-0500
			10 m	77 1430 0000 50004-1000
		5 x 1,5	2 m	77 1430 0000 50005-0200
			5 m	77 1430 0000 50005-0500
			10 m	77 1430 0000 50005-1000

Female angled connector, moulded		3 x 1,5	2 m	77 1434 0000 50003-0200
			5 m	77 1434 0000 50003-0500
			10 m	77 1434 0000 50003-1000
		4 x 1,5	2 m	77 1434 0000 50004-0200
			5 m	77 1434 0000 50004-0500
			10 m	77 1434 0000 50004-1000
		5 x 1,5	2 m	77 1434 0000 50005-0200
			5 m	77 1434 0000 50005-0500
			10 m	77 1434 0000 50005-1000

Specifications

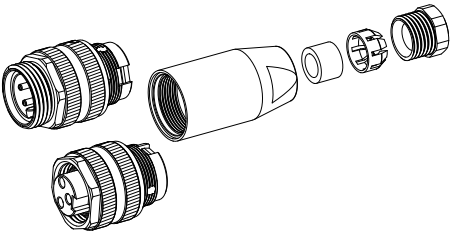
Contacts	3, 2+PE	4, 3+PE	5, 4+PE
Wire gauge	max. 1,5 mm ² (max. AWG 16)		max. 1,5 mm ² – max. 2,5 mm ² (max. AWG 16 – max. AWG 14)
Mechanical operation	> 100 Mating cycles, > 50 Mating cycles		
Temperature range	– 25 °C / + 80 °C, – 25 °C / + 85 °C		
Rated voltage	300 V (600 V UL)		
Pollution degree	3		
Rated current (40°C)	13 A, 12 A, 10 A	10 A, 9 A, 7 A	9 A, 9 A, 6 A
Contact plating	Au (Gold)		
Material of housing	PUR, PBT		

Description	Drawing	Contacts	Wire gauge	Cable outlet	Ordering-No.
Male cable connector	  Technical drawing of a male cable connector. Dimensions: Ø 27, 7/8" - 16 UN, ~83, SW 24mm. Section A: 6-8mm SW 16mm, 10-12mm SW 21mm. Section B: 6-8mm SW 19mm, 10-12mm SW 24mm.	2+PE 3+PE 4+PE	1,5 mm ² 2,5 mm ²	6-8 mm 10-12 mm 6-8 mm 10-12 mm 6-8 mm 10-12 mm 10-12 mm	99 2441 12 03 99 2441 32 03 99 2443 12 04 99 2443 32 04 99 2445 12 05 99 2445 32 05 99 2445 33 05
Male cable connector	  Technical drawing of a male cable connector. Dimensions: Ø 27, 7/8" - 16 UN, ~86, SW 24mm, SW 24mm, A. Section A: 8-10mm SW 19mm, 12-14mm SW 23mm.	2+PE 3+PE 4+PE	1,5 mm ² 2,5 mm ²	8-10 mm 12-14 mm 8-10 mm 12-14 mm 8-10 mm 12-14 mm 8-10 mm 12-14 mm	99 2441 21 03 99 2441 42 03 99 2443 21 04 99 2443 42 04 99 2445 21 05 99 2445 42 05 99 2445 23 05 99 2445 43 05
Male cable connector, stainless steel locking ring	  Technical drawing of a male cable connector with stainless steel locking ring. Dimensions: Ø 27, 7/8" - 16 UN, ~83, SW 19mm, SW 16mm.	2+PE 3+PE 4+PE	1,5 mm ²	6-8 mm	99 2441 282 03 99 2443 282 04 99 2445 282 05
Female cable connector	  Technical drawing of a female cable connector. Dimensions: Ø 27, 7/8" - 16 UN, ~78, SW 24mm, B, A. Section A: 6-8mm SW 16mm, 10-12mm SW 21mm. Section B: 6-8mm SW 19mm, 10-12mm SW 24mm.	2+PE 3+PE 4+PE	1,5 mm ² 2,5 mm ²	6-8 mm 10-12 mm 6-8 mm 10-12 mm 6-8 mm 10-12 mm 10-12 mm	99 2440 12 03 99 2440 32 03 99 2442 12 04 99 2442 32 04 99 2444 12 05 99 2444 32 05 99 2444 33 05
Female cable connector	  Technical drawing of a female cable connector. Dimensions: Ø 27, 7/8" - 16 UN, ~83, SW 24mm, SW 24mm, A. Section A: 8-10mm SW 19mm, 12-14mm SW 23mm.	2+PE 3+PE 4+PE	1,5 mm ² 2,5 mm ²	8-10 mm 12-14 mm 8-10 mm 12-14 mm 8-10 mm 12-14 mm 8-10 mm 12-14 mm	99 2440 21 03 99 2440 42 03 99 2442 21 04 99 2442 42 04 99 2444 21 05 99 2444 42 05 99 2444 23 05 99 2444 43 05
Female cable connector, stainless steel locking ring	  Technical drawing of a female cable connector with stainless steel locking ring. Dimensions: Ø 27, 7/8" - 16 UN, ~78, SW 19mm, SW 16mm.	2+PE 3+PE 4+PE	1,5 mm ²	6-8 mm	99 2440 282 03 99 2442 282 04 99 2444 282 05

Description	Drawing	Contacts	Wire gauge	Cable outlet	Ordering-No.
Male angled connector	  ~51 ~65 SW 16mm SW 24mm 7/8"-16 UN Ø 28	2+PE	1,5 mm²	6-8 mm	99 2441 52 03
		3+PE			99 2443 52 04
		4+PE			99 2445 52 05
Male angled connector	  ~53 ~72 A SW 24mm 7/8"-16 UN Ø 28	2+PE	1,5 mm²	8-10 mm	99 2441 62 03
				10-12 mm	99 2441 72 03
		3+PE		8-10 mm	99 2443 62 04
			2,5 mm²	10-12 mm	99 2443 72 04
		4+PE		8-10 mm	99 2445 62 05
				10-12 mm	99 2445 72 05
Female angled connector	  ~51 ~61 SW 16mm SW 24mm 7/8"-16 UN Ø 28	2+PE	1,5 mm²	6-8 mm	99 2440 52 03
		3+PE			99 2442 52 04
		4+PE			99 2444 52 05
Female angled connector	  ~53 ~68 A SW 24mm 7/8"-16 UN Ø 28	2+PE	1,5 mm²	8-10 mm	99 2440 62 03
				10-12 mm	99 2440 72 03
		3+PE		8-10 mm	99 2442 62 04
			2,5 mm²	10-12 mm	99 2442 72 04
		4+PE		8-10 mm	99 2444 62 05
				10-12 mm	99 2444 72 05

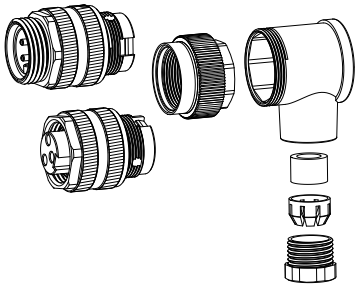
Component part drawing

Cable connectors



Female insert/
Male insert
Sleeve
Seal
Pinch ring
Pressing screw

Angled connectors



Female insert/
Male insert
Angled sleeve mounted
Angled housing
Seal
Pinch ring
Pressing screw
Cable outlet adjustable
in 8 positions

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Male panel mount connector, with single wires (AWG 18)		2+PE 4	PG 11 PG 13,5 M20 x 1,5 PG 11 PG 13,5 M20 x 1,5	09 2447 310 03 09 2447 300 03 09 2447 320 03 09 2449 310 04 09 2449 300 04 09 2449 320 04 09 2451 310 05 09 2451 300 05 09 2451 320 05
Male panel mount connector, front fastened, with single wires (AWG 18)		2+PE 4 4+PE	— — —	09 2447 100 03 09 2449 100 04 09 2451 100 05
Male panel mount connector, dip-solder		2+PE 4 4+PE	— — —	09 2447 330 03 09 2449 330 04 09 2451 330 05
Male panel mount connector, front fastened, dip-solder		2+PE 4 4+PE	— — —	09 2447 180 03 09 2449 180 04 09 2451 180 05
Adapter lead-through for control cabinet		5	—	09 2472 00 05
Splitter, socket 7/8", pin/socket 7/8"		3 4 5	— — —	09 2473 100 03 09 2474 100 04 09 2475 100 05

Description	Drawing	Contacts	Fixing thread	Ordering-No.
Female panel mount connector, with single wires (AWG 18)			PG 11	09 2446 310 03
		2+PE	PG 13,5	09 2446 300 03
			M20 x 1,5	09 2446 320 03
		4	PG 11	09 2448 310 04
			PG 13,5	09 2448 300 04
			M20 x 1,5	09 2448 320 04
		4+PE	PG 11	09 2450 310 05
			PG 13,5	09 2450 300 05
			M20 x 1,5	09 2450 320 05

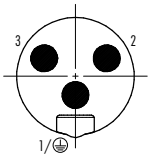
Female panel mount connector, front fastened, with single wires (AWG 18)		2+PE	—	09 2446 100 03
		4	—	09 2448 100 04
		4+PE	—	09 2450 100 05

Female panel mount connector, dip-solder		2+PE	—	09 2446 330 03
		4	—	09 2448 330 04
		4+PE	—	09 2450 330 05

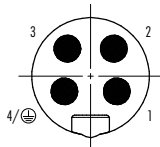
Female panel mount connector, front fastened, dip-solder		2+PE	—	09 2446 180 03
		4	—	09 2448 180 04
		4+PE	—	09 2450 180 05

Contact arrangements male insert (mating side)

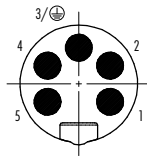
3, 2+PE contacts



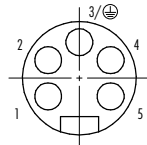
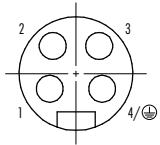
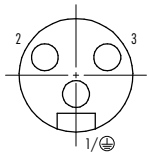
4, 3+PE contacts



5, 4+PE contacts



Contact arrangements female insert (mating side)

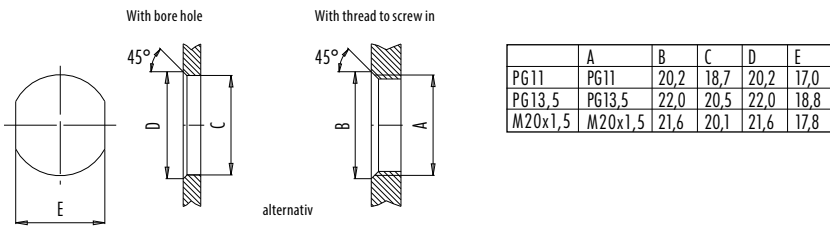


Colour of wire, moulded cable and panel mount connectors

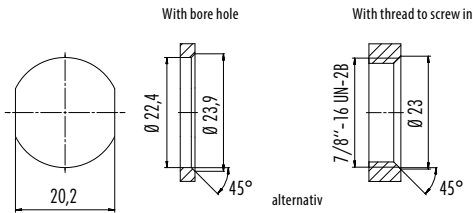
3, 2+PE contacts	4, 3+PE contacts	5, 4+PE contacts
1 green/yellow	1 black	1 black
2 brown	2 blue	2 blue
3 blue	3 brown	3 green/yellow
	4 white	4 brown
		5 white

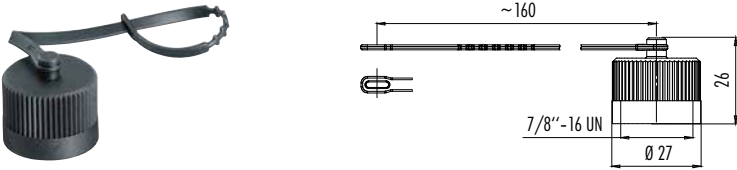
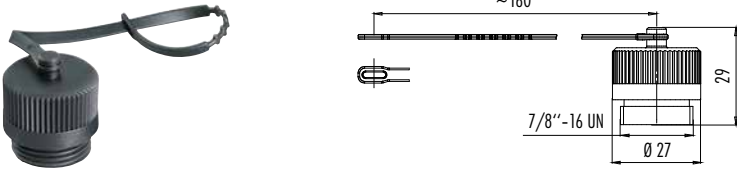
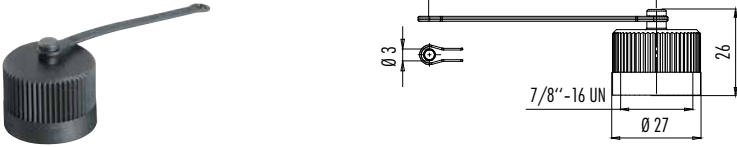
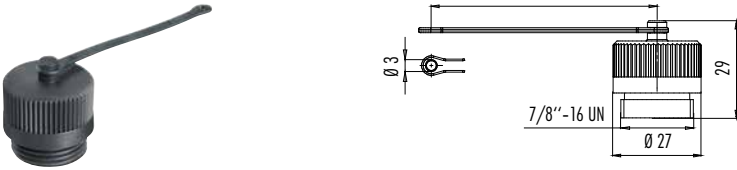
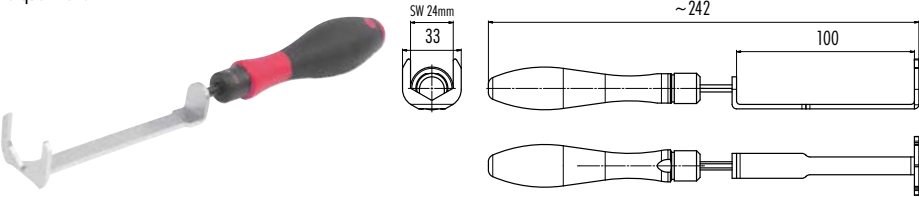
Panel cut out

Panel mount connector



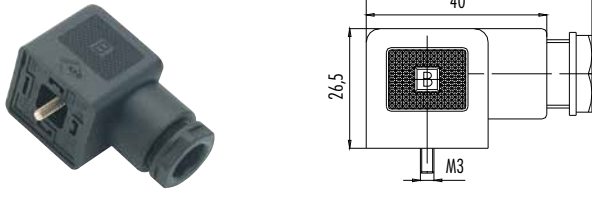
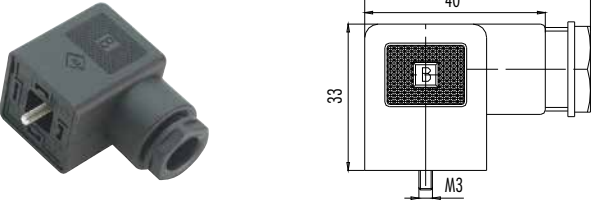
Panel mount connector, front fastened



Description	Drawing	Ordering-No.												
Protection cap for male cable connector		08 2807 000 000												
Protection cap for female cable connector		08 2808 000 000												
Protection cap for male panel mount connector		08 2809 000 000												
Protection cap for female panel mount connector		08 2811 000 000												
Torque wrench		07 0082 000												
Hexagonal nut for fixing thread		<table><thead><tr><th>Fix. thread B</th><th>Wrench size A</th><th>Ordering-No.</th></tr></thead><tbody><tr><td>PG 11</td><td>SW 21 mm</td><td>16 0403 001</td></tr><tr><td>PG 13,5</td><td>SW 23 mm</td><td>16 0401 001</td></tr><tr><td>M20 x 1,5</td><td>SW 24 mm</td><td>16 0917 001</td></tr></tbody></table>	Fix. thread B	Wrench size A	Ordering-No.	PG 11	SW 21 mm	16 0403 001	PG 13,5	SW 23 mm	16 0401 001	M20 x 1,5	SW 24 mm	16 0917 001
Fix. thread B	Wrench size A	Ordering-No.												
PG 11	SW 21 mm	16 0403 001												
PG 13,5	SW 23 mm	16 0401 001												
M20 x 1,5	SW 24 mm	16 0917 001												

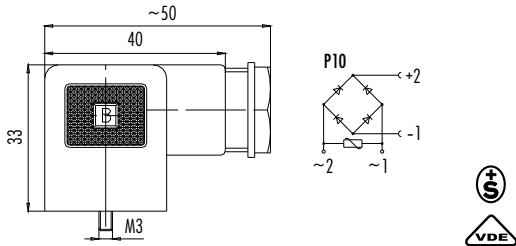


- DIN EN 175301-803
- 2+PE, 3+PE
- Low and high housing
- Degree of protection IP65
- Wired versions
- Moulded versions
- Degree of protection IP67

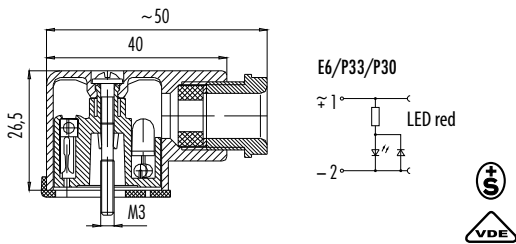
Description	Drawing	Contacts	Thread	Cable outlet	Ordering-No.	
Female power connector, low housing		2+PE	PG 9	6–8 mm	43 1700 000 03	
			M16	6–10 mm	43 1700 004 03	
			PG 11	8–10 mm	43 1700 002 03	
		3+PE	PG 9	6–8 mm	43 1702 000 04	
			M16	6–10 mm	43 1702 004 04	
			PG 11	8–10 mm	43 1702 002 04	
Female power connector, high housing		2+PE	PG 9	6–8 mm	43 1704 000 03	
			M16	6–10 mm	43 1704 004 03	
			PG 11	8–10 mm	43 1704 002 03	
		3+PE	PG 9	6–8 mm	43 1706 000 04	
			M16	6–10 mm	43 1706 004 04	
			PG 11	8–10 mm	43 1706 002 04	
Female power connector, high housing, with 6,3 mm fast-on crimp contacts		2+PE	PG 9	6–8 mm	0,5–1,5 mm ²	43 1708 011 00
					1,0–2,5 mm ²	43 1708 012 00
			PG 11	8–10 mm	0,5–1,5 mm ²	43 1708 013 00
					1,0–2,5 mm ²	43 1708 014 00
		3+PE	PG 9	6–8 mm	0,5–1,5 mm ²	43 1708 015 00
					1,0–2,5 mm ²	43 1708 016 00
			PG 11	8–10 mm	0,5–1,5 mm ²	43 1708 017 00
					1,0–2,5 mm ²	43 1708 018 00

Specifications		
Contacts	2+PE	3+PE
Wire gauge	min. 0,34 mm ² (min. AWG 22), max. 1,5 mm ² (max. AWG 16), screw termination/fast-on sleeve 0,5–1,5 mm ² , 1,0–2,5 mm ²	
Mechanical operation	> 50 Mating cycles	
Temperature range	– 30 °C /+ 110 °C	
Rated voltage	250 V	
Pollution degree	3	
Current (40°C)	10 A	
Contact plating	Ni (Nickel)	
Material of housing	PA	

Description	Drawing	Contacts	Cable outlet	Wiring	Current	Ordering-No.
Female power connector, high housing, wired		2+PE	6–8 mm	P10 230 V	2 A	43 1726 110 03
			8–10 mm			43 1726 112 03

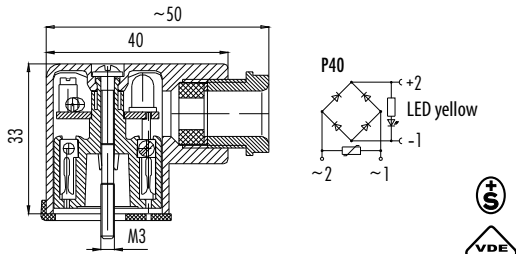


Female power connector, low housing, wired, LED



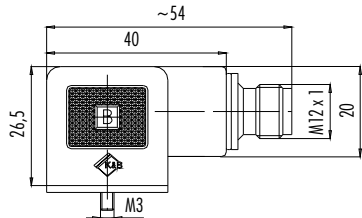
2+PE	6–8 mm	E6 24 V	10 A	43 1714 135 03
		P33 110 V		43 1714 133 03
		P30 230 V		43 1714 131 03
	8–10 mm	E6 24 V		43 1714 136 03
		P33 110 V		43 1714 134 03
		P30 230 V		43 1714 132 03

Female power connector, high housing, wired, LED



2+PE	6–8 mm	P40 230 V	2 A	43 1730 140 03
	8–10 mm			43 1730 142 03

Adapter, female power connector, low housing, M12



2+PE	–	–	60 V	4 A	99 5700 00 03
3+PE	–				99 5702 00 04

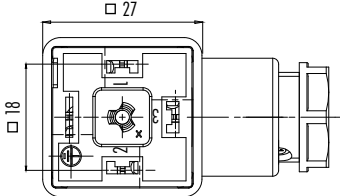
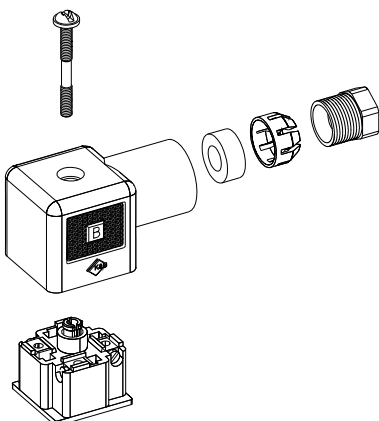
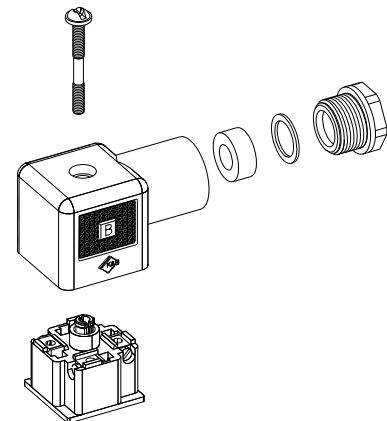
Component part drawing

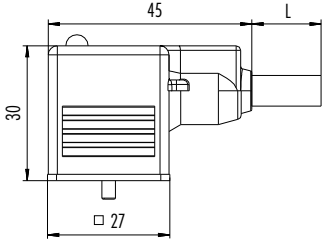
Female power connector (PG 9, M16)

Female power connector with strain relief (PG 9)

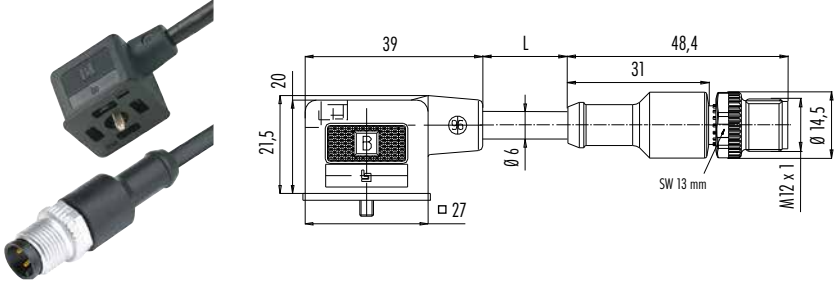
Contact arrangements

2+PE/3+PE contacts

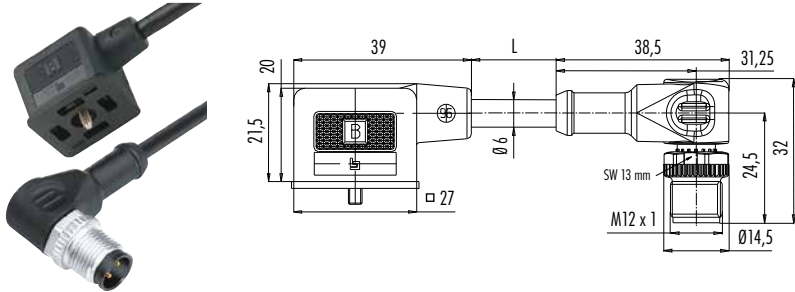


Description	Drawing	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
Female solenoid valve connector, moulded		2+PE x 0,75	250 V	10 A	3 m	31 5234 300 000
					5 m	31 5234 500 000
		3+PE x 0,75			3 m	31 5235 300 000
					5 m	31 5235 500 000

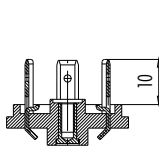
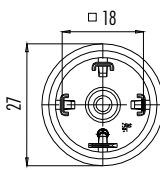
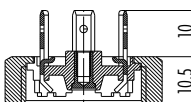
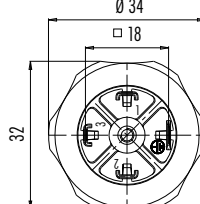
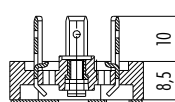
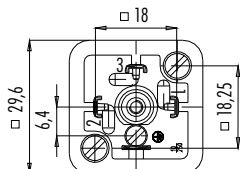
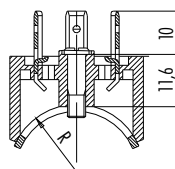
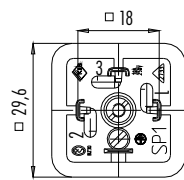
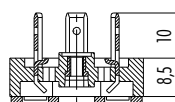
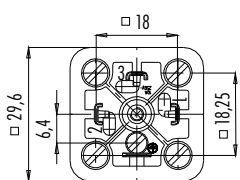
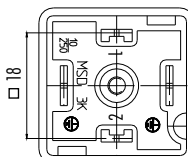
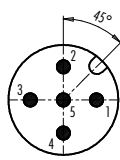
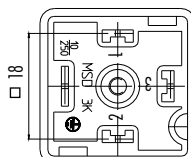
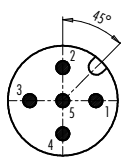
Description	Drawing	Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
Female solenoid valve connector, moulded, wired, LED		2+PE x 0,75	Z10 24 V	10 A	3 m	31 5236 300 510
					5 m	31 5236 500 510
			Z20 24 V		3 m	31 5237 300 520
					5 m	31 5237 500 520

Description	Drawing	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
Connecting cable female power connector – male cable connector M12		2+PE x 0,75	60 V	4 A	1 m	79 5700 10 03
					2 m	79 5700 20 03

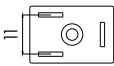
Description	Drawing	Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
Connecting cable female power connector, wired, LED – male cable connector M12		2+PE x 0,75	Z10 24 V	4 A	1 m	79 5704 10 03
					2 m	79 5704 20 03
			Z20 24 V		1 m	79 5706 10 03
					2 m	79 5706 20 03

Description	Drawing	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
Connecting cable female power connector – male angled connector M12		2+PE x 0,75	60 V	4 A	1 m	79 5701 10 03
					2 m	79 5701 20 03
		3+PE x 0,75			1 m	79 5703 10 04
					2 m	79 5703 20 04

Description	Drawing	Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
Connecting cable female power connector, wired, LED – male angled connector M12		2+PE x 0,75	Z10 24 V	4 A	1 m	79 5705 10 03
					2 m	79 5705 20 03

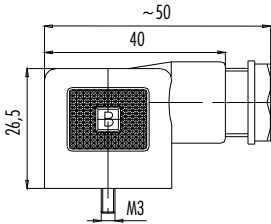
Description	Drawing	Contacts	Ordering-No.	
Male circular power connector	   	2+PE 3+PE	43 1701 000 03 43 1703 000 04	
Male circular power connector, coupling ring M27 x 1,5	   	2+PE 3+PE	43 1705 005 03 43 1707 005 04 43 1707 019 04 gold plated contacts	
Male rectangular power connector, 2 mounting holes	   	2+PE 3+PE	43 1709 000 03 43 1711 000 04	
Male rectangular power connector, radius	   	2+PE 3+PE	43 1717 xxx 03 43 1719 xxx 04	Radius Index (xxx)
Male rectangular power connector, 4 mounting holes	   	2+PE 3+PE	43 1713 000 03 43 1715 000 04	
Contact arrangements		Colour of wire, moulded solenoid valve connectors and connecting cables		
2+PE contacts, PE connected protective earth	3+PE contacts	2+PE contacts M12 1 brown 2 blue ⊕ green/yellow	3+PE contacts M12 1 brown 2 blue 3 black ⊕ green/yellow	
 	 	3 blue 4 brown 5 green/yellow	4 black 5 green/yellow	

Description	Drawing	Material ¹⁾	Colour	Ordering-No.
Flat seal for female power connector		NBR Silicon	beige red	16 8085 000 16 8085 001
Flat seal for male power connector		NBR Silicon	beige red	16 8090 000 16 8090 001
Flat seal for male power connector		NBR Silicon	beige red	16 8089 000 16 8089 001
Flat seal for male power connector (version with radius)		NBR Silicon	beige red	16 8092 000 16 8092 001
Profiled seal for female power connector		NBR	black	16 8088 000
Profiled seal for female power connector		NBR	black	16 8114 000
Coupling ring for male power connector		Ordering-No. 16 8114 000		
Knurled screw		16 8096 131 16 8104 131	(29,1 mm) (35,1 mm)	
		Material ¹⁾	Colour	Temperature range of seals
		NBR	beige	-40 °C /+ 100 °C
		NBR	black	-20 °C /+ 125 °C
		Silicon	red	-60 °C /+ 250 °C

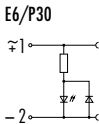
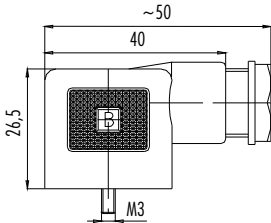


- DIN EN 175301-803
- Industrial standard
- 2+PE
- Low housing
- Degree of protection IP65
- Wired versions
- Moulded versions
- Degree of protection IP67

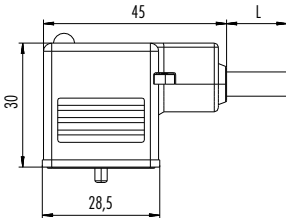
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female power connector		2+PE	6–8 mm	43 1830 000 03



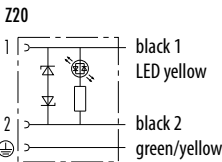
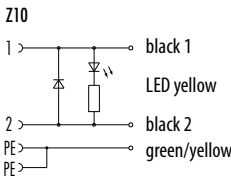
Description	Drawing	Contacts	Cable outlet	Wiring	Current	Ordering-No.
Female power connector, wired, LED		2+PE	6–8 mm	E6 24 V P30 220 V	10 A	43 1834 135 03 43 1834 130 03



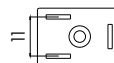
Description	Drawing	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
Female solenoid valve connector, moulded		2+PE x 0,75	250 V	10 A	3 m 5 m	30 5535 300 000 30 5535 500 000



Description	Drawing	Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
Female solenoid valve connector, moulded, wired, LED		2+PE x 0,75	Z10 24 V Z20 24 V	10 A	3 m 5 m 3 m 5 m	30 5537 300 510 30 5537 500 510 30 5539 300 520 30 5539 500 520



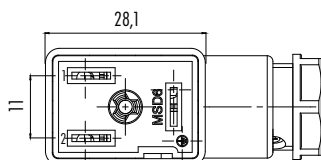
Specifications	
Contacts	2+PE
Wire gauge	min. 0,34 mm ² (min. AWG 22), max. 1,5 mm ² (max. AWG 16)
Mechanical operation	> 50 Mating cycles
Temperature range	– 20 °C /+ 120 °C
Rated voltage	250 V
Pollution degree	3
Current (40°C)	10 A
Contact plating	Ni (Nickel)
Material of housing	PA



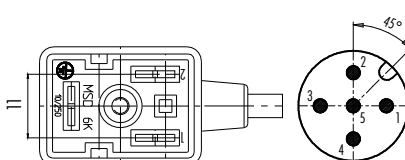
Description	Drawing	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
Connecting cable female power connector – male cable connector M12		2+PE x 0,75	60 V	4 A	1 m 2 m	79 5712 10 03 79 5712 20 03
Connecting cable female power connector, wired, LED – male cable connector M12		2+PE x 0,75	Z10 24 V	4 A	1 m 2 m	79 5714 10 03 79 5714 20 03
Connecting cable female power connector – male angled connector M12		2+PE x 0,75	60 V	4 A	1 m 2 m	79 5713 10 03 79 5713 20 03
Connecting cable female power connector, wired, LED – male angled connector M12		2+PE x 0,75	Z10 24 V Z20 24 V	4 A	1 m 2 m 1 m 2 m	79 5715 10 03 79 5715 20 03 79 5717 10 03 79 5717 20 03
Male power connector		2+PE				43 1831 000 03

Contact arrangements

2+PE contacts



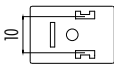
Using rotatable by 180°



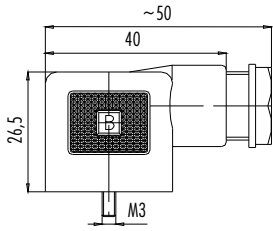
Nonrotatably use

Colour of wire, moulded solenoid valve connectors and connecting cables

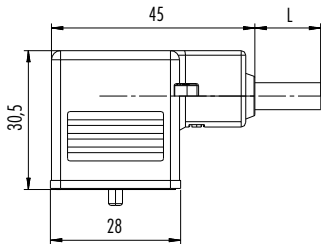
2+PE contacts	M12
1 brown	3 blue
2 blue	4 brown
⊕ green/yellow	5 yellow/green



Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female power connector		2+PE	6–8 mm	43 1800 000 03

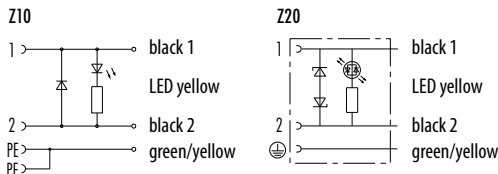


Female solenoid valve connector, moulded



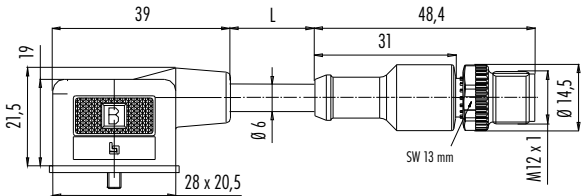
Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
2+PE x 0,75	250 V	10 A	3 m	32 5335 300 000
			5 m	32 5335 500 000

Female solenoid valve connector, moulded, wired, LED



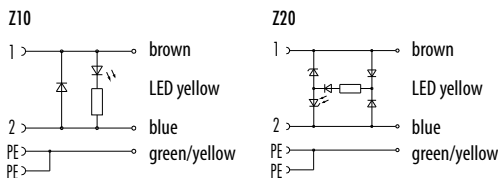
Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
2+PE x 0,75	Z10 24 V	10 A	3 m	32 5337 300 510
			5 m	32 5337 500 510
	Z20 24 V		3 m	32 5339 300 520
			5 m	32 5339 500 520

Connecting cable female power connector – male cable connector M12



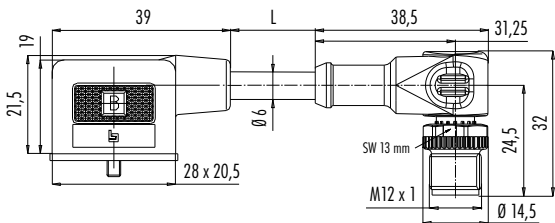
Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
2+PE x 0,75	60 V	4 A	1 m	79 5718 10 03
			2 m	79 5718 20 03

Connecting cable female power connector, wired, LED – male cable connector M12

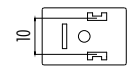


Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
2+PE x 0,75	Z10 24 V	4 A	1 m	79 5720 10 03
			2 m	79 5720 20 03
	Z20 24 V		1 m	79 5722 10 03
			2 m	79 5722 20 03

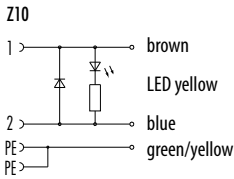
Connecting cable female power connector – Male angled connector M12



Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
2+PE x 0,75	60 V	4 A	1 m	79 5719 10 03
			2 m	79 5719 20 03

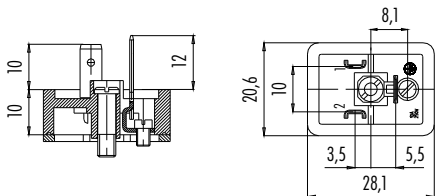


Description	Drawing	Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
Connecting cable female power connector, wired, LED – male angled connector M12		2+PE x 0,75	Z10 24 V	4 A	1 m	79 5721 10 03
					2 m	79 5721 20 03



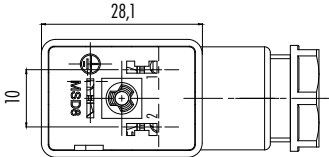
Male power connector

Contacts	Ordering-No.
2+PE	43 1801 000 03

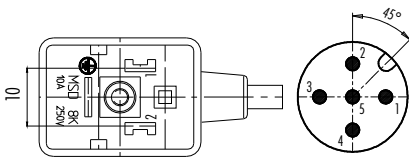


Contact arrangements

2+PE contacts



Using rotatable by 180°



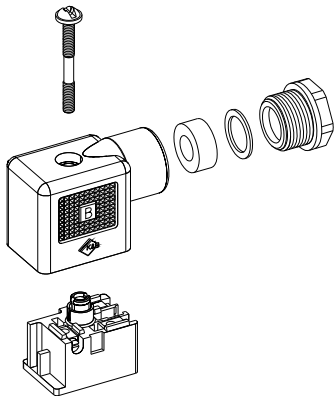
Nonrotatably use

Colour of wire, moulded solenoid valve connectors and connecting cables

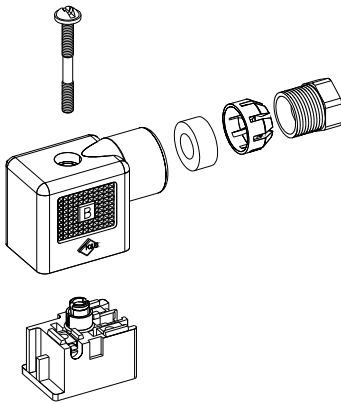
2+PE contacts	M12
1 brown	3 blue
2 blue	4 brown
⊕ green/yellow	5 yellow/green

Component part drawing

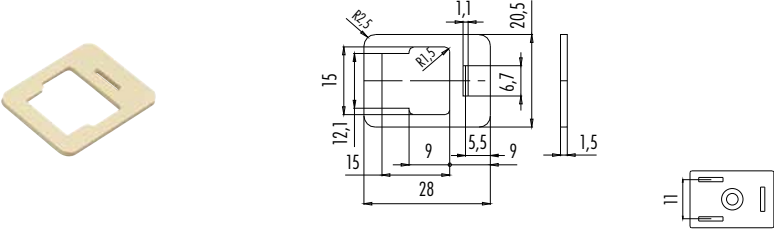
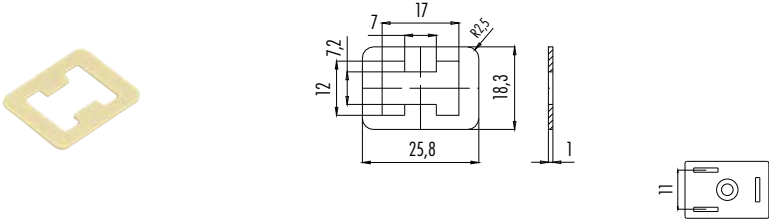
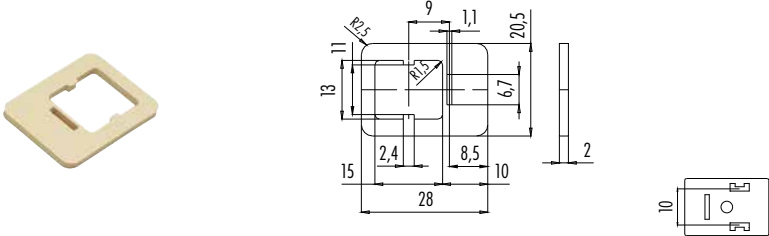
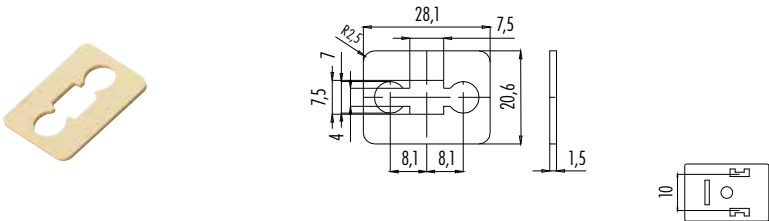
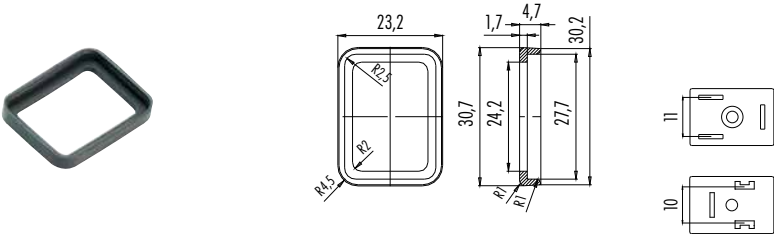
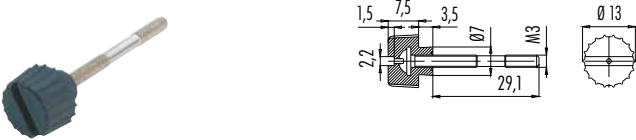
Female power connector (PG 9, M16)



Female power connector with strain relief (PG 9)



Size B

Description	Drawing	Material ¹⁾	Colour	Ordering-No.
Flat seal, industrial standard, for female power connector		NBR Silicon	beige red	16 8093 000 16 8093 001
Flat seal, industrial standard, for male power connector		NBR Silicon	beige red	16 8094 000 16 8094 001
Flat seal, DIN, for female power connector		NBR Silicon	beige red	16 8100 000 16 8100 001
Flat seal, DIN, for male power connector		NBR	beige	16 8101 000
Profiled seal, industrial standard/DIN, for female power connector		NBR	black	16 8105 000
Knurled screw		Ordering-No. 16 8096 131		
		Material ¹⁾	Colour	Temperature range of seals
		NBR	beige	-40 °C /+ 100 °C
		NBR	black	-20 °C /+ 125 °C
		Silicon	red	-60 °C /+ 250 °C

¹⁾ Note the Temperature range, see table

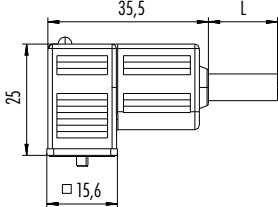


- DIN EN 175301-803
- Industrial standard
- 2+PE, 3+PE
- Degree of protection IP65
- Wired versions
- Moulded versions
- Degree of protection IP67

Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female power connector		2+PE	4–6 mm	43 1930 000 03
		3+PE		43 1932 000 04

Female power connector, metric thread M12		2+PE	4–6 mm	43 1930 004 03
		3+PE		43 1932 004 04

	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
Female solenoid valve connector, moulded	2+2PE x 0,5	250 V	6 A	3 m	33 5934 300 000
				5 m	33 5934 500 000

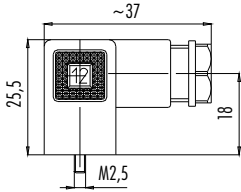


Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
2+2PE x 0,5	Z20 24 V	4 A	3 m	33 5937 300 520
			5 m	33 5937 500 520

Specifications			
Contacts	2+PE	3+PE	2+2PE
Wire gauge	min. 0,14 mm ² (min. AWG 26), max. 0,75 mm ² (max. AWG 20)		0,5 mm ² (AWG 20)
Mechanical operation	> 50 Mating cycles		
Temperature range	– 20 °C /+ 120 °C		– 20 °C /+ 80 °C
Rated voltage	250 V		230 V, 24 V AC/DC
Pollution degree	3		
Current (40°C)	6 A		4 A
Contact plating	Ni (Nickel)		Ag (Silver)
Material of housing	PA		UL 94-HB, TPU



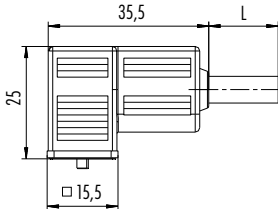
Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female power connector		2+PE	4–6 mm	43 1900 000 03
		3+PE		43 1902 000 04



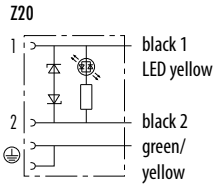
Female power connector, metric thread M12		2+PE	4–6 mm	43 1900 004 03
		3+PE		43 1902 004 04



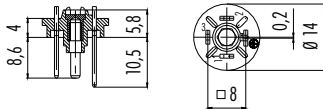
Description	Drawing	Contacts	Voltage	Current	Cable length, PUR	Ordering-No.
					3 m	34 5734 300 000
Female solenoid valve connector, moulded		2+2PE x 0,5	250 V	6 A	5 m	34 5734 500 000



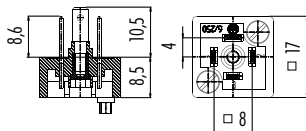
Description	Drawing	Contacts	Wiring	Current	Cable length, PUR	Ordering-No.
					3 m	34 5737 300 520
Female solenoid valve connector, moulded, wired, LED		2+2PE x 0,5	Z20 24 V	4 A	5 m	34 5737 500 520



Description	Drawing	Contacts	Ordering-No.
		2+PE	43 1901 000 03
Male power connector		3+PE	43 1903 000 04



Male power connector		2+PE	43 1905 000 03
		3+PE	43 1907 000 04

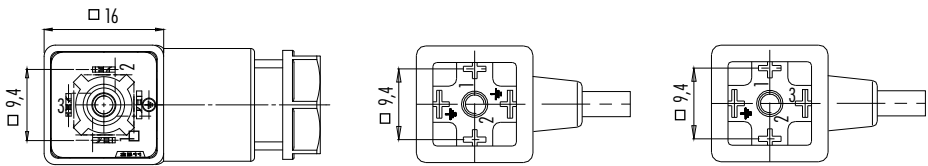


Contact arrangements industrial standard

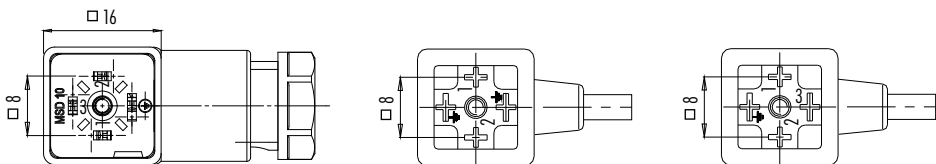
2+PE/3+PE contacts

2+PE

3+PE



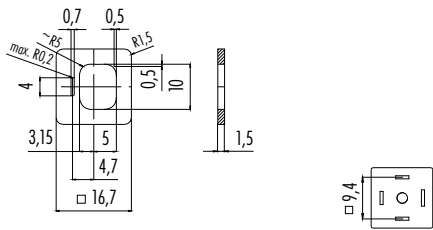
Contact arrangements DIN 175301-803



Colour of wire, moulded solenoid valve connectors

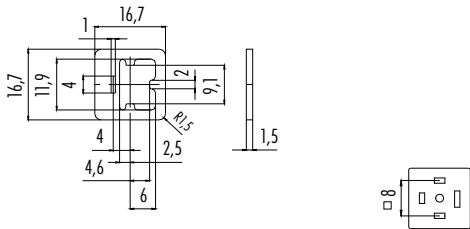
- 1 black 1
- 2 black 2
- 3 black 3
- ⊕ green/yellow

Description	Drawing	Material ¹⁾	Colour	Ordering-No.
Flat seal, industrial standard, for female power connector		NBR	beige	16 8110 000



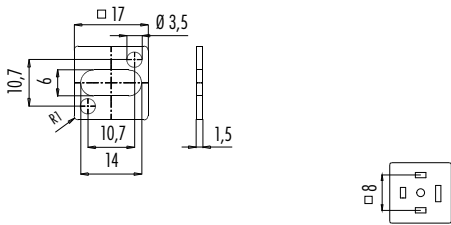
Flat seal, DIN, for female power connector

NBR	beige	16 8107 000
Silicon	red	16 8107 001
HNBR	black	16 8107 002



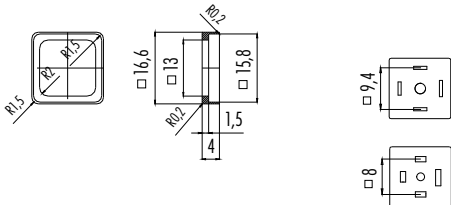
Flat seal, DIN, for male power connector

NBR	black	16 8097 000
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Profiled seal, industrial standard/DIN, for female power connector

NBR	black	16 8106 071
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Material ¹⁾	Colour	Temperature range of seals
NBR	beige	-40 °C /+ 100 °C
Silicon	red	-60 °C /+ 250 °C
NBR	black	-20 °C /+ 125 °C
HNBR	black	-40 °C /+ 125 °C



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01 0146 001	678	36	08 2425 010 000	M12	141	09 0106 70 03	723	58	09 0124 90 06	423 - 723 - 425	61
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01 0146 001	423 - 723 - 425	65	08 2433 400 001	720	91	09 0107 300 03	423 - 723 - 425	59	09 0125 70 07	723	58
01 0769 001	768 - 718	109	08 2434 000 001	720	30	09 0107 80 03	423 - 723 - 425	59	09 0126 25 07	723	58
01 5006 001	678	36	08 2441 000 000	768 - 718	109	09 0107 90 03	423 - 723 - 425	59	09 0126 70 07	723	58
01 5006 001	581 - 680 - 682	53	08 2559 000 000	720	32	09 0108 00 03	423 - 723 - 425	61	09 0127 00 07	423 - 723 - 425	59
01 5006 001	423 - 723 - 425	65	08 2567 000 000	720	32	09 0108 290 03	423 - 723 - 425	61	09 0127 300 07	423 - 723 - 425	59
01 5023 001	712 - 702	27	08 2586 000 000	720	32	09 0108 300 03	423 - 723 - 425	61	09 0127 320 07	423 - 723 - 425	60
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01 5118 001	707	96	08 2603 000 000	440	42	09 0108 90 03	423 - 723 - 425	61	09 0127 65 07	423 - 723 - 425	60
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02 0007 000	423 - 723 - 425	65	08 2615 000 000	M12	141	09 0111 00 04	423 - 723 - 425	59	09 0127 80 07	423 - 723 - 425	59
02 0054 000	581 - 680 - 682	53	08 2616 000 000	M12	141	09 0111 300 04	423 - 723 - 425	59	09 0127 90 07	423 - 723 - 425	59
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04 0183 009	581 - 680 - 682	53	08 2671 000 000	423 - 723 - 425	64	09 0111 90 04	423 - 723 - 425	59	09 0128 702 07	423 - 723 - 425	62
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99 2022 20 06	581	45	99 2444 72 05	820	196	99 3441 202 05	713 · 763	133	99 4221 00 04	693	72
99 2022 700 06	581	45	99 2444 73 05	820	196	99 3441 351 05	713 · 763	133	99 4221 110 04	693	72
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99 4225 14 07	693	72	99 4635 00 06	623	66	99 5113 75 05	423	55	99 5613 00 05	423	54
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99 9127 00 08	720	29	99 9208 00 03	620	9	99 9225 400 08	620	88			

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09 3431 116 04	76 0531 1011 00004-0200	713-763	126	09 3481 120 08	76 0631 1011 00008-0200	713-763	126	79 3405 52 03	77 3405 0000 50003-0200	718	96
09 3431 120 04	76 0631 1011 00004-0200	713-763	126	09 3481 22 08	76 0731 0011 00008-0200	713-763	126	79 3405 55 03	77 3405 0000 50003-0500	718	96
09 3431 22 04	76 0731 0011 00004-0200	713-763	126	09 3481 282 08	76 2131 0111 00008-0200	713-763	125	79 3406 42 03	77 3406 0000 20003-0200	718	99
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09 3431 550 04	86 1031 1100 00004	713-763	128	09 3481 600 08	86 0531 1120 00008	713-763	127	79 3406 55 03	77 3406 0000 50003-0500	718	99
09 3431 600 04	86 0531 1120 00004	713-763	127	09 3481 678 08	76 2731 0111 00008-0200	713-763	126	79 3407 42 03	77 3403 0000 20003-0200	718	96
09 3431 605 04	86 0531 1121 00004	713-763	128	09 3481 700 08	76 0231 0011 00008-0200	713-763	125	79 3407 45 03	77 3403 0000 20003-0500	718	96
09 3431 678 04	76 2731 0111 00004-0200	713-763	126	09 3481 722 08	76 0831 0011 00008-0200	713-763	126	79 3407 52 03	77 3403 0000 50003-0200	718	96
09 3431 700 04	76 0231 0011 00004-0200	713-763	125	09 3481 88 08	86 0131 0000 00008	713-763	126	79 3407 55 03	77 3403 0000 50003-0500	718	96
09 3431 722 04	76 0831 0011 00004-0200	713-763	126	09 3481 90 08	86 0531 1000 00008	713-763	127	79 3408 42 03	77 3408 0000 20003-0200	718	99
09 3431 77 04	86 0131 0002 00004	713-763	126	09 3482 116 08	76 0532 1011 00008-0200	713-763	132	79 3408 45 03	77 3408 0000 20003-0500	718	99
09 3431 778 04	76 2831 0111 00004-0200	713-763	126	09 3482 120 08	76 0632 1011 00008-0200	713-763	132	79 3408 52 03	77 3408 0000 50003-0200	718	99
09 3431 828 04	76 2231 0111 00004-0200	713-763	125	09 3482 22 08	76 0732 0011 00008-0200	713-763	132	79 3408 55 03	77 3408 0000 50003-0500	718	99
09 3431 88 04	86 0131 0000 00004	713-763	127	09 3482 275 08	86 0532 1000 00008	713-763	133	79 3427 12 04	77 3427 0000 20003-0200	763	113
09 3431 90 04	86 0531 1000 00004	713-763	127	09 3482 282 08	76 2132 0111 00008-0200	713-763	131	79 3427 13 04	77 3427 0000 20004-0200	763	113
09 3432 116 04	76 0532 1011 00004-0200	713-763	132	09 3482 600 08	86 0532 1120 00008	713-763	133	79 3427 15 04	77 3427 0000 20003-0500	763	113
09 3432 120 04	76 0632 1011 00004-0200	713-763	132	09 3482 678 08	76 2732 0111 00008-0200	713-763	132	79 3427 17 04	77 3427 0000 20004-0500	763	113
09 3432 22 04	76 0732 0011 00004-0200	713-763	132	09 3482 679 08	76 2532 1111 00008-0200	713-763	132	79 3427 32 04	77 3427 0000 50003-0200	763	113
09 3432 282 04	76 2132 0111 00004-0200	713-763	131	09 3482 700 08	76 0232 0011 00008-0200	713-763	131	79 3427 33 04	77 3427 0000 50004-0200	763	113
09 3432 600 04	86 0532 1120 00004	713-763	133	09 3482 722 08	76 0832 0011 00008-0200	713-763	132	79 3427 35 04	77 3427 0000 50003-0500	763	113
09 3432 605 04	86 0532 1121 00004	713-763	133	09 3483 00 08	76 0931 0111 00008-0200	713-763	127	79 3427 37 04	77 3427 0000 50004-0500	763	113
09 3432 678 04	76 2732 0111 00004-0200	713-763	132	09 3488 00 08	76 0932 0111 00008-0200	713-763	132	79 3427 52 04	77 3727 0000 50004-0200	763	113
09 3432 700 04	76 0232 0011 00004-0200	713-763	131	09 3491 00 12	76 0131 0111 00012-0200	713-763	125	79 3427 55 04	77 3727 0000 50004-0500	763	113
09 3432 722 04	76 0832 0011 00004-0200	713-763	132	09 3491 116 12	76 0531 1111 00012-0200	713-763	126	79 3429 12 04	77 3429 0000 20003-0200	763	111
09 3432 77 04	86 0132 0002 00004	713-763	131	09 3491 120 12	76 0631 1111 00012-0200	713-763	126	79 3429 13 04	77 3429 0000 20004-0200	763	111
09 3432 778 04	76 2832 0111 00004-0200	713-763	132	09 3491 22 12	76 0731 0111 00012-0200	713-763	126	79 3429 15 04	77 3429 0000 20003-0500	763	111
09 3432 828 04	76 2232 0111 00004-0200	713-763	131	09 3491 550 12	86 1031 1100 00012	713-763	128	79 3429 17 04	77 3429 0000 20004-0500	763	111
09 3432 88 04	86 0132 0000 00004	713-763	133	09 3491 600 12	86 0531 1120 00012	713-763	127	79 3429 32 04	77 3429 0000 50003-0200	763	111
09 3432 90 04	86 0532 1000 00004	713-763	133	09 3491 700 12	76 0231 0111 00012-0200	713-763	125	79 3429 33 04	77 3429 0000 50004-0200	763	111
09 3433 00 04	76 0931 0111 00004-0200	713-763	127	09 3491 722 12	76 0831 0111 00012-0200	713-763	126	79 3429 35 04	77 3429 0000 50003-0500	763	111
09 3441 00 05	76 0131 0011 00005-0200	713-763	125	09 3491 90 12	86 0531 1100 00012	713-763	127	79 3429 37 04	77 3429 0000 50004-0500	763	111
09 3441 116 05	76 0531 1011 00005-0200	713-763	126	09 3492 00 12	76 0132 0111 00012-0200	713-763	131	79 3429 52 04	77 3729 0000 50004-0200	763	111
09 3441 120 05	76 0631 1011 00005-0200	713-763	126	09 3492 116 12	76 0532 1111 00012-0200	713-763	132	79 3429 55 04	77 3729 0000 50004-0500	763	111
09 3441 22 05	76 0731 0011 00005-0200	713-763	126	09 3492 120 12	76 0632 1111 00012-0200	713-763	132	79 3430 12 04	77 3430 0000 20003-0200	763	119
09 3441 282 05	76 2131 0111 00005-0200	713-763	125	09 3492 22 12	76 0732 0111 00012-0200	713-763	132	79 3430 13 04	77 3430 0000 20004-0200	763	119
09 3441 50 05	76 0331 0111 00005-0200	713-763	126	09 3492 600 12	86 0532 1120 00012	713-763	133	79 3430 15 04	77 3430 0000 20003-0500	763	119
09 3441 550 05	86 1031 1100 00005	713-763	128	09 3492 700 12	76 0232 0111 00012-0200	713-763	131	79 3430 17 04	77 3430 0000 20004-0500	763	119
09 3441 600 05	86 0531 1120 00005	713-763	127	09 3492 722 12	76 0832 0111 00012-0200	713-763	132	79 3430 32 04	77 3430 0000 50003-0200	763	119
09 3441 605 05	86 0531 1121 00005	713-763	128	09 3492 90 12	86 0532 1100 00012	713-763	133	79 3430 33 04	77 3430 0000 50004-0200	763	119
09 3441 642 05	76 0431 0111 00005-0200	713-763	126	09 3493 00 12	76 0931 0111 00012-0200	713-763	127	79 3430 35 04	77 3430 0000 50003-0500	763	119
09 3441 678 05	76 2731 0111 00005-0200	713-763	126	09 3498 00 12	76 0932 0111 00012-0200	713-763	132	79 3430 37 04	77 3430 0000 50004-0500	763	119
09 3441 700 05	76 0231 0011 00005-0200	713-763	125	79 3381 42 04	77 3405 0000 20004-0200	718	96	79 3430 52 04	77 3730 0000 50003-0200	763	119
09 3441 722 05	76 0831 0011 00005-0200	713-763	126	79 3381 45 04	77 3405 0000 20004-0500	718	96	79 3430 55 04	77 3730 0000 50003-0500	763	119
09 3441 77 05	86 0131 0002 00005	713-763	126	79 3381 52 04	77 3405 0000 50004-0200	718	96	79 3430 562 04	77 3430 0000 70003-0200	763	119
09 3441 828 05	76 2231 0111 00005-0200	713-763	125	79 3381 55 04	77 3405 0000 50004-0500	718	96	79 3434 12 04	77 3434 0000 20003-0200	763	122
09 3441 88 05	86 0131 0000 00005	713-763	127	79 3382 42 04	77 3406 0000 20004-0200	718	99	79 3434 13 04	77 3434 0000 20004-0200	763	122
09 3441 90 05	86 0531 1000 00005	713-763	127	79 3382 45 04	77 3406 0000 20004-0500	718	99	79 3434 15 04	77 3434 0000 20003-0500	763	122
09 3442 116 05	76 0532 1011 00005-0200	713-763	132	79 3382 52 04	77 3406 0000 50004-0200	718	99	79 3434 17 04	77 3434 0000 20004-0500	763	122
09 3442 120 05	76 0632 1011 00005-0200	713-763	132	79 3382 55 04	77 3406 0000 50004-0500	718	99	79 3434 32 04	77 3434 0000 50003-0200	763	122
09 3442 22 05	76 0732 0011 00005-0200	713-763	132	79 3383 42 04	77 3403 0000 20004-0200	718	96	79 3434 33 04	77 3434 0000 50004-0200	763	122
09 3442 282 05	76 2132 0111 00005-0200	713-763	131	79 3383 45 04	77 3403 0000 20004-0500	718	96	79 3434 35 04	77 3434 0000 50003-0500	763	122
09 3442 600 05	86 0532 1120 00005	713-763	133	79 3383 52 04	77 3403 0000 50004-0200	718	96	79 3434 37 04	77 3434 0000 50004-0500	763	122
09 3442 605 05	86 0532 1121 00005	713-763	133	79 3383 55 04	77 3403 0000 50004-0500	718	96	79 3434 52 04	77 3734 0000 50003-0200	763	122
09 3442 700 05	76 0232 0011 00005-0200	713-763	131	79 3384 42 04	77 3408 0000 20004-0200	718	99	79 3434 55 04	77 3734 0000 50003-0500	763	122
09 3442 722 05	76 0832 0011 00005-0200	713-763	132	79 3384 45 04	77 3408 0000 20004-0500	718	99	79 3436 12 04	77 3634 0000 20003-0200	763	123
09 3442 77 05	86 0132 0002 00005	713-763	131	79 3384 52 04	77 3408 0000 50004-0200	718	99	79 3436 13 04	77 3634 0000 20004-0200	763	123
09 3442 828 05	76 2232 0111 00005-0200	713-763	131	79 3384 55 04	77 3408 0000 50004-0500	718	99	79 3436 15 04	77 3634 0000 20003-0500	763	123
09 3442 88 05	86 0132 0000 00005	713-763	133	79 3404 42 03	77 3608 0000 20003-0200	718	100	79 3436 17 04	77 3634 0000 20004-0500	763	123
09 3442 90 05	86 0532 1000 00005	713-763	133	79 3404 45 03	77 3608 0000 20003-0500	718	100	79 3436 32 04	77 3634 0000 50003-0200	763	123
09 3443 00 05	76 0931 0111 00005-0200	713-763	127	79 3404 52 03	77 3608 0000 50003-0200	718	100	79 3436 33 04	77 3634 0000 50004-0200	763	123
09 3448 00 04	76 0932 0111 00004-0200	713-763	132	79 3404 55 03	77 3608 0000 50003-0500	718	100	79 3436 35 0			

Compare list of change numbers of moulded M8/M12 cable connectors and M12 panel mount connectors with single wires

Number old	Number new	Series	Page	Number old	Number new	Series	Page	Number old	Number new	Series	Page
79 3436 52 04	77 3834 0000 50003-0200	763	123	79 3530 32 04	77 3530 0000 50703-0200	763	119	79 4454 20 05	77 4434 0000 50005-0200	766	161
79 3436 55 04	77 3834 0000 50003-0500	763	123	79 3530 33 04	77 3530 0000 50704-0200	763	119	79 4454 50 05	77 4434 0000 50005-0500	766	161
79 3439 12 05	77 3429 0000 20005-0200	763	111	79 3530 35 04	77 3530 0000 50703-0500	763	119	99 3431 216 04	86 0531 1002 00004	713-763	127
79 3439 15 05	77 3429 0000 20005-0500	763	111	79 3530 37 04	77 3530 0000 50704-0500	763	119	99 3441 216 05	86 0531 1002 00005	713-763	127
79 3439 32 05	77 3429 0000 50005-0200	763	111	79 3534 12 04	77 3534 0000 20703-0200	763	122	99 3481 216 08	86 0531 1002 00008	713-763	127
79 3439 35 05	77 3429 0000 50005-0500	763	111	79 3534 13 04	77 3534 0000 20704-0200	763	122	99 3481 77 08	86 0131 0002 00008	713-763	126
79 3439 52 05	77 3729 0000 50005-0200	763	111	79 3534 15 04	77 3534 0000 20703-0500	763	122	99 3482 77 08	86 0132 0002 00008	713-763	131
79 3439 55 05	77 3729 0000 50005-0500	763	111	79 3534 17 04	77 3534 0000 20704-0500	763	122				
79 3440 12 05	77 3430 0000 20005-0200	763	119	79 3534 32 04	77 3534 0000 50703-0200	763	122				
79 3440 15 05	77 3430 0000 20005-0500	763	119	79 3534 33 04	77 3534 0000 50704-0200	763	122				
79 3440 32 05	77 3430 0000 50005-0200	763	119	79 3534 35 04	77 3534 0000 50703-0500	763	122				
79 3440 35 05	77 3430 0000 50005-0500	763	119	79 3534 37 04	77 3534 0000 50704-0500	763	122				
79 3440 52 05	77 3730 0000 50005-0200	763	119	79 3539 12 05	77 3529 0000 20705-0200	763	111				
79 3440 55 05	77 3730 0000 50005-0500	763	119	79 3539 15 05	77 3529 0000 20705-0500	763	111				
79 3444 12 05	77 3434 0000 20005-0200	763	122	79 3539 32 05	77 3529 0000 50705-0200	763	111				
79 3444 15 05	77 3434 0000 20005-0500	763	122	79 3539 35 05	77 3529 0000 50705-0500	763	111				
79 3444 32 05	77 3434 0000 50005-0200	763	122	79 3540 12 05	77 3530 0000 20705-0200	763	119				
79 3444 35 05	77 3434 0000 50005-0500	763	122	79 3540 15 05	77 3530 0000 20705-0500	763	119				
79 3444 52 05	77 3734 0000 50005-0200	763	122	79 3540 32 05	77 3530 0000 50705-0200	763	119				
79 3444 55 05	77 3734 0000 50005-0500	763	122	79 3540 35 05	77 3530 0000 50705-0500	763	119				
79 3457 12 05	77 3427 0000 20005-0200	763	113	79 3544 12 05	77 3534 0000 20705-0200	763	122				
79 3457 15 05	77 3427 0000 20005-0500	763	113	79 3544 15 05	77 3534 0000 20705-0500	763	122				
79 3457 32 05	77 3427 0000 50005-0200	763	113	79 3544 32 05	77 3534 0000 50705-0200	763	122				
79 3457 35 05	77 3427 0000 50005-0500	763	113	79 3544 35 05	77 3534 0000 50705-0500	763	122				
79 3457 52 05	77 3727 0000 50005-0200	763	113	79 3557 12 05	77 3527 0000 20705-0200	763	113				
79 3457 55 05	77 3727 0000 50005-0500	763	113	79 3557 15 05	77 3527 0000 20705-0500	763	113				
79 3463 52 06	77 3403 0000 50006-0200	718	96	79 3577 32 08	77 3527 0000 50708-0200	763	113				
79 3463 55 06	77 3403 0000 50006-0500	718	96	79 3577 35 08	77 3527 0000 50708-0500	763	113				
79 3464 52 06	77 3406 0000 50006-0200	718	99	79 3579 32 08	77 3529 0000 50708-0200	763	111				
79 3464 55 06	77 3406 0000 50006-0500	718	99	79 3579 35 08	77 3529 0000 50708-0500	763	111				
79 3465 52 06	77 3405 0000 50006-0200	718	96	79 3580 32 08	77 3530 0000 50708-0200	763	119				
79 3465 55 06	77 3405 0000 50006-0500	718	96	79 3580 35 08	77 3530 0000 50708-0500	763	119				
79 3468 52 06	77 3408 0000 50006-0200	718	99	79 3584 32 08	77 3534 0000 50708-0200	763	122				
79 3468 55 06	77 3408 0000 50006-0500	718	99	79 3584 35 08	77 3534 0000 50708-0500	763	122				
79 3480 32 08	77 3430 0000 50608-0200	763	119	79 3803 52 08	77 3403 0000 50008-0200	718	96				
79 3480 35 08	77 3430 0000 50608-0500	763	119	79 3803 55 08	77 3403 0000 50008-0500	718	96				
79 3484 32 08	77 3434 0000 50608-0200	763	122	79 3805 52 08	77 3405 0000 50008-0200	718	96				
79 3484 35 08	77 3434 0000 50608-0500	763	122	79 3805 55 08	77 3405 0000 50008-0500	718	96				
79 3490 32 12	77 3430 0000 50712-0200	763	119	79 3806 52 08	77 3408 0000 50008-0200	718	99				
79 3490 35 12	77 3430 0000 50712-0500	763	119	79 3806 55 08	77 3408 0000 50008-0500	718	99				
79 3506 52 03	77 3506 0000 50003-0200	718	99	79 3808 52 08	77 3406 0000 50008-0200	718	99				
79 3506 55 03	77 3506 0000 50003-0500	718	99	79 3808 55 08	77 3406 0000 50008-0500	718	99				
79 3508 52 03	77 3508 0000 50003-0200	718	100	79 4347 20 05	77 4427 0000 50003-0200	766	160				
79 3508 55 03	77 3508 0000 50003-0500	718	100	79 4347 50 05	77 4427 0000 50003-0500	766	160				
79 3527 12 04	77 3527 0000 20703-0200	763	113	79 4349 20 05	77 4429 0000 50003-0200	766	160				
79 3527 13 04	77 3527 0000 20704-0200	763	113	79 4349 50 05	77 4429 0000 50003-0500	766	160				
79 3527 15 04	77 3527 0000 20703-0500	763	113	79 4350 20 05	77 4430 0000 50003-0200	766	161				
79 3527 17 04	77 3527 0000 20704-0500	763	113	79 4350 50 05	77 4430 0000 50003-0500	766	161				
79 3527 32 04	77 3527 0000 50703-0200	763	113	79 4354 20 05	77 4434 0000 50003-0200	766	161				
79 3527 33 04	77 3527 0000 50704-0200	763	113	79 4354 50 05	77 4434 0000 50003-0500	766	161				
79 3527 35 04	77 3527 0000 50703-0500	763	113	79 4427 20 04	77 4427 0000 50004-0200	766	160				
79 3527 37 04	77 3527 0000 50704-0500	763	113	79 4427 50 04	77 4427 0000 50004-0500	766	160				
79 3529 12 04	77 3529 0000 20703-0200	763	111	79 4429 20 04	77 4429 0000 50004-0200	766	160				
79 3529 13 04	77 3529 0000 20704-0200	763	111	79 4429 50 04	77 4429 0000 50004-0500	766	160				
79 3529 15 04	77 3529 0000 20703-0500	763	111	79 4430 20 04	77 4430 0000 50004-0200	766	161				
79 3529 17 04	77 3529 0000 20704-0500	763	111	79 4430 50 04	77 4430 0000 50004-0500	766	161				
79 3529 32 04	77 3529 0000 50703-0200	763	111	79 4434 20 04	77 4434 0000 50004-0200	766	161				
79 3529 33 04	77 3529 0000 50704-0200	763	111	79 4434 50 04	77 4434 0000 50004-0500	766	161				
79 3529 35 04	77 3529 0000 50703-0500	763	111	79 4447 20 05	77 4427 0000 50005-0200	766	160				
79 3529 37 04	77 3529 0000 50704-0500	763	111	79 4447 50 05	77 4427 0000 50005-0500	766	160				
79 3530 12 04	77 3530 0000 20703-0200	763	119	79 4449 20 05	77 4429 0000 50005-0200	766	160				
79 3530 13 04	77 3530 0000 20704-0200	763	119	79 4449 50 05	77 4429 0000 50005-0500	766	160				
79 3530 15 04	77 3530 0000 20703-0500	763	119	79 4450 20 05	77 4430 0000 50005-0200	766	161				
79 3530 17 04	77 3530 0000 20704-0500	763	119	79 4450 50 05	77 4430 0000 50005-0500	766	161				

Technical information

Important user information

- Binding for the applications of connectors are the requirements of the equipment specifications of the users.
- We reserve the right to change the design due to improvements in quality, further development or production requirements.
- All technical data mentioned in this catalogue are related to connectors, meaning connecting devices which in normal use (when under load) shall not be inserted or withdrawn.
- Regarding the CE marking it has to be noted that electronic components such as connectors are not subject to a marking, and therefore must not be marked with a CE-mark. This is confirmed by the rules of the European commission for low voltage and EMC guidelines.
- The listed technical data are intended to help selecting the appropriate product and to secure a proper application. The data are used to describe the product, however, certain properties are not guaranteed.
- The connectors are developed and designed for the use in the field of equipment, control and electrical appliances. Whether they also can be used in other applications has to be checked by the user.
- When mounting electrical conductive socket housings, they have to be integrated into the protection measures.
- The wires to be connected shall be stripped only so far that distances to conductive parts are not shortened. When wires are soldered, it has to be beared in mind that no single strands stick out and no short circuit can occur.
- All dimensions in this catalogue are in millimeters (mm).
- For connectors with strain relief the following minimum parameters are valid:

					Recommended tightening torque of the pressing screw
2 - 3	cable Ø:	min.	20 N		30 - 40 cNm
3 - 4	cable Ø:	min.	30 N		30 - 40 cNm
4 - 5	cable Ø:	min.	40 N		80 - 100 cNm
5 - 6	cable Ø:	min.	50 N		80 - 100 cNm
6 - 7	cable Ø:	min.	60 N		80 - 100 cNm
7 - 8	cable Ø:	min.	70 N		80 - 100 cNm
8 - 12	cable Ø:	min.	80 N		100 - 140 cNm
12 - 14	cable Ø:	min.	120 N		100 - 140 cNm

General user information

Connectors

Connectors are components which are not to be engaged or disengaged in normal use (under live).

Plug and socket devices

Plug and socket devices are components which in normal use (under live or load) may be engaged or disengaged when live or under load.

Termination methods

- Screw connection
A screw connection is a detachable electrical connection between a conductor and a screw clamp. Screw clamps are designed acc. to DIN EN 60999-1/VDE 0609-1. The chart below shows the screw size and the required clamping and testing torque.

Screw size		M2,5	M3	M3,5
Torque (cNm)	Cap screw	40	50	60
	Headless screw	20	25	40

- Solder connection
Besides the soldering of single wires with solder irons or soldering machines, the method of wave soldering or infra-red vapor phase soldering has gained great importance for connectors for printed boards or flexible wiring.

We recommend the following soldering parameters

- hand-soldering: soldering bold temperature max. 370 °C/max. 4s
- dip soldering: soldering bath temperature max. 270 °C/max. 4s
- alternativ dip soldering: soldering bath temperature max. 260 °C/max. 10s

When wires are soldered, it has to be watched that no single strands stick out which could lead to a short circuit and that no large solder joints occur which would reduce the clearance and creepage distances unfavourably. Testing and valuation of solder joints and the relevant components is regulated in IEC 60068-2.

Crimp connection

A crimp connection is a non-detachable electrical connection between a conductor and a crimp contact produced with the crimp technology. The requirements for crimp connections are defined in IEC 60352-2. An important point for the quality of a crimp connection is the achieved tensile strength of the termination. Since easy to measure, the tensile strength is a practible means for quality control purposes.

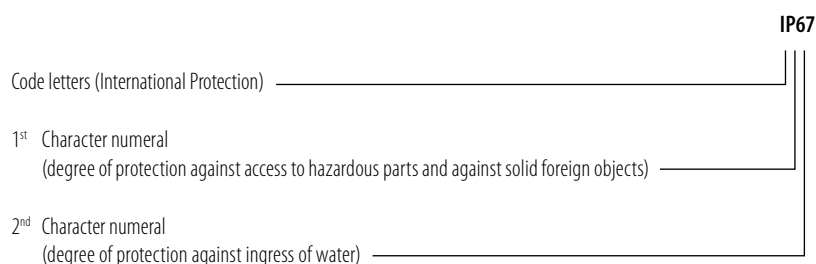
Technical information

General user information

Degree of protection (IP-Code)

For safety reasons, connectors have to be protected from outside influences like dust, foreign objects, direct contact, moisture and water. This protection is provided on industrial connectors by their housings with their latching devices and sealed cable entries. The degree of protection can be selected depending on the type of intended use. The standard IEC 60529 has specified and divided the degree of protection into several classes.

The degree of protection is indicated in the following way:



The following charts give an overview about all protection degrees.

1 st Char. No.	Definition	Remark	2 nd Char. No.	Definition	Remark
0	Not protected		0	Not protected	
1	Protected against access to hazardous parts with the back of a hand. Protected against solid foreign objects of $\varnothing \geq 50$ mm		1	Protected against water drops	
2	Protected against access to hazardous parts with a finger. Protected against solid foreign objects of $\varnothing \geq 12,5$ mm		2	Protected against water drops when enclosure tilted up to 15°	
3	Protected against access to hazardous parts with a tool. Protected against solid foreign objects $\varnothing \geq 2,5$ mm		3	Protected against spraying water	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects
4	Protected against access to hazardous parts with a wire. Protected against solid foreign objects $\varnothing \geq 1$ mm		4	Protected against splashing water	Water splashed against the disclosure from any direction shall have no harmful effects
5	Protected against access to hazardous parts with a wire. Dust-protected	Intrusion of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the device or to impair safety	5	Protected against water jets	
6	Protected against access to hazardous parts with a wire. Dust-tight	No intrusion of dust	6	Protected against powerful water jets	
			7	Protected against the effects of temporary immersion in water	Intrusion of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water for 30 min. in 1 m depth
			8 ¹⁾	Protected against the effects of continuous immersion in water	Intrusion of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7
			9K ²⁾	Protected against water during high pressure/stream cleaning	A strong water jet splashed with high pressure and high temperature against the disclosure from any direction shall have no harmful effects. Test conditions: 100 bar water pressure, 80 °C water temperature, water delivery rate 15 l/min., distance to housing 10 cm, test-duration 30 sec. per position, (angle 0°, 30°, 60°, 90°) on a rotating table turning at 5 revolutions per minute

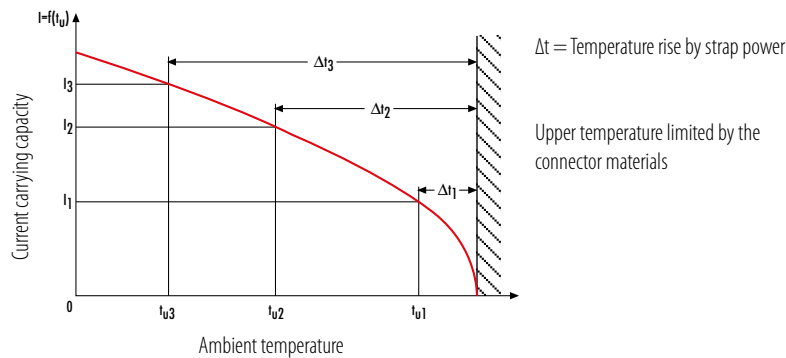
Technical information

Electrotechnical information

Current carrying capacity

- The current carrying capacity of a connector denotes the current that can be carried continuously and simultaneously through all its contacts. It is determined by testing following the standard IEC 60512-5-2.
- The upper limit temperature results from the thermal properties of the contact and insulating materials. The sum of the ambient temperature and the temperature created by the current flow may not exceed the upper limit temperature of the connector.
- This means, that the current carrying capacity is no fixed value but decreases with increasing ambient temperatures. This relation between current, the caused temperature rise and ambient temperature of the connector is depicted in a curve, the so-called derating curve. As one can see, the current carrying capacity decreases with increasing ambient temperature.
- On the other hand, very often not all contacts are loaded simultaneously with the whole rated current, so that some single contacts can carry a higher current than that according to the derating curve. These currents have to be determined by testing.

Derating curve



General user information

Shielding, electromagnetic compatibility (EMC)

Since the issue of the German law about electromagnetic compatibility of equipment, more attention is paid to EMC within the concerned equipment. The equipment has to be designed in such a way that

1. the generation of electromagnetic interference is limited to such extend that the determined operation of this equipment is not hampered,
 2. the equipment has a reasonable resistance against electromagnetic interference so that the determined operation is not hampered.
- To satisfy the requirements of the equipment manufacturers, more and more connectors with shielding properties are applied where shielded cables can be connected. In use are conductive housings to which the cable shield can be terminated.
 - In case of circular connectors, it should be watched that the cable shield is carefully connected to the connector shield. A circumferentially (360°) contact is optimal in this case. Good shielding values (and very often sufficient for practical use) are also achieved when the shielding braid is firmly connected to the conductive housing.
 - Not sufficient are fully plastic connectors without metal sleeves with no possibility to terminate the cable shield. Furthermore, it is important that during mating a secure electrical connection between plug and socket housing is achieved and that the panel mounted connector part has a good metallic connection with the chassis wall.
 - The shielding attenuation is stated in decibel (db) and depends on the frequency. Good shieldings have a high attenuation, which over a large frequency band (MHz) does not decrease too heavily.

Information about used materials

Two material groups are used to manufacture the connectors described in this catalogue:

- Metals for contacts and housings
- Plastic material for inserts and housings

Materials for contacts

The properties of contacts are defined to a large extent by the used materials. Decisive features are:

- strength and spring properties
- electrical conductivity
- max. operating temperature

Considering these points, binder is using proven copper-alloys for the manufacture of contacts; for pin contacts brass (CuZn), for socket contacts phosphor bronze (CuSn).

Brass combines good strength with good conductivity and temperature stability. Phosphor bronze offers next to a good conductivity very good spring capabilities and a high temperature performance.

Materials for metal housings

Depending on the application, the metal housings are produced from either brass, zinc die-cast or an aluminium alloy. For circular housing parts, mainly brass is used due to its good machine ability and strength. For angled housings and parts with minor finishing work, zinc die-cast or an aluminium alloy is used.

Plastic material for inserts

The inserts of binder-connectors are manufactured primarily from PBT (Polybutylenterephthalate), a plastic material with a temperature stability of up to 130 °C and special properties for high grade moulded parts. The material has very good chemical and electrical properties and very good dimensional stability.

Technical information

Information about used materials

Surface finishes

In order to protect contacts and housings from aggressive environments and to improve the conductivity, the surfaces are treated accordingly. At binder, contacts are gold- or silver plated. These platings improve the conductivity and are very corrosion-proof. For applications in the mA-range at very low voltages, gold plated contacts are recommended to improve the electrical properties and in addition, it increases the corrosion-proofness. Housings are anodised or covered with a plating of either nickel or chromium for anti-corrosion and decorative reasons.

Material for sealing gaskets

To achieve the required protection class, all binder circular connectors are equipped with sealing rings of an elastomeric material. Depending on the final use, binder has selected chloroprene rubber (Trademark Neoprene), nitrid rubber (Trademark Perbunan) or fluor-silicon rubber (Trademark Viton).

Plastic material for housings

Plastic housings are primarily manufactured from PA (Polyamide). This well-proven material (internationally known under the name Nylon) is very tough, non-abrasive, resistant against solvents, oils and greases and can be used at temperatures up to 120 °C.

Norms and test conditions

Additional information to the technical data mentionend in this catalogue

Characteristics	Standard ¹⁾	Remark
Protection of housing	IEC 60529, ISO 20653 (IP69K)	Value in mated condition. Further information to IP-codes on www.binder-connector.com ²⁾
Mechanical operation	IEC 60512-9-1	Test is performed without electrical load.
Upper temperature	IEC 60512-6 (Test 11i)	Test condition is 168 hrs.
Lower temperature	IEC 60512-6 (Test 11j)	Test condition is 2 hrs.
Rated voltage	IEC 60664-1	The indicated value is defined under consideration of the pollution degree and the overvoltage category.
Rated impulse voltage	IEC 60664-1	Derived from overvoltage category and rated voltage.
Pollution degree	IEC 60664-1	Further information about pollution degrees on www.binder-connector.com ²⁾
Current carrying capacity	IEC 60512-5-2	Further information about current carrying capacity on www.binder-connector.com ²⁾
Rated current		Related to an ambient temperature of +40 °C (104 °F).
Contact resistance	IEC 60512-2-1	Resistance between contact pin and contact socket in mated condition over a defined length.

¹⁾ It has to be noted that all technical data represent initial values which may change after load.

General user information

American Wire Gauges

Since various areas of industry are also using wires according to the American Wire Gauge (AWG), the following comparison chart is included to allow a cross reference between AWG and metric wire sizes (mm²).

It has to be noted that wires of the same AWG number but with different composition have slightly different mm²!

AWG	Wire composition (mm)	Wire - Ø (mm)	Wire gauge (mm ²)
30	1 x 0,25	0,25	0,05
	7 x 0,10	0,36	0,06
28	1 x 0,32	0,32	0,08
	7 x 0,13	0,38	0,09
26	1 x 0,40	0,40	0,13
	7 x 0,16	0,48	0,14
	19 x 0,10	0,51	0,15
24	1 x 0,51	0,51	0,21
	7 x 0,20	0,61	0,22
	19 x 0,13	0,64	0,25
22	1 x 0,51	0,64	0,33
	7 x 0,20	0,76	0,34
	19 x 0,13	0,81	0,38
20	1 x 0,81	0,81	0,52
	7 x 0,32	0,97	0,56
	19 x 0,20	1,02	0,60
18	1 x 1,02	1,02	0,82
	19 x 0,25	1,27	0,93
16	19 x 0,29	1,44	1,25
14	19 x 0,36	1,80	1,93
12	19 x 0,46	2,29	3,16
10	19 x 0,40	3,10	4,65

²⁾ More information about the mentioned standards on www.binder-connector.com/download-center/technical-information



CIRCULAR CONNECTORS OF THE SPECIALIST





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