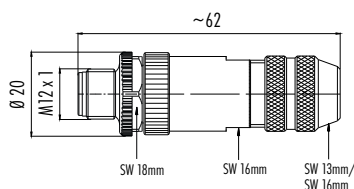




- Screw locking acc. to DIN EN 61076-2-101
- Degree of protection IP67
- Moulded versions
- Degree of protection IP68
- Easy assembly
- Excellent EMC shielding
- Versions with shielding rings/iris type spring
- Angled connectors adjustable in 4 positions

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

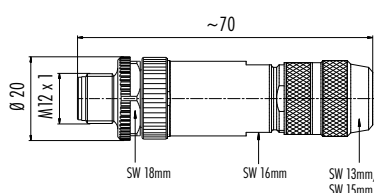
5

8–9 mm

99 1439 910 05



99 1533 910 05



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

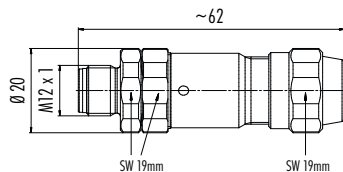
4

5,5–8,6 mm

99 1429 995 04

5

99 1437 995 05

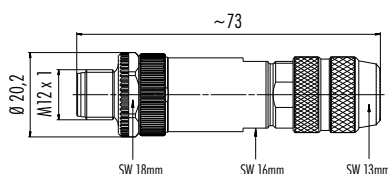


Male cable connector, crimp, shieldable

4

5–8 mm

99 1433 810 04

**NEW**

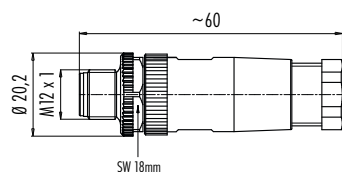
Crimp contacts see page 150

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

Male cable connector, metal locking system, screw clamp



c us

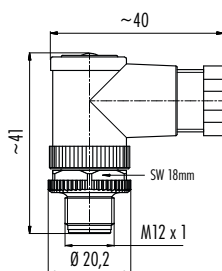
Contacts

Cable outlet

Ordering-No.

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

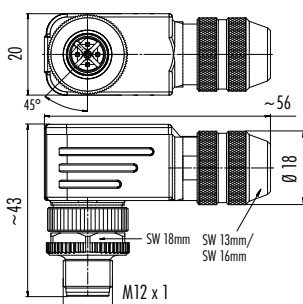
Male angled connector, metal locking system, screw clamp



c us

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



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

Contacts

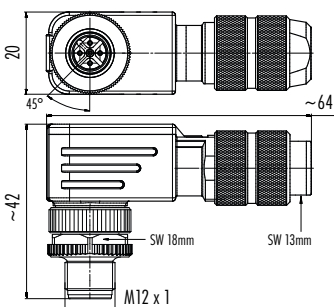
Cable outlet

Screw clamp

Wire clamp

4	6–8 mm	99 1429 820 04	c us	–
5	6–8 mm	99 1437 820 05	c us	99 1535 820 05
	6,5–8,5 mm	99 1437 920 05	c us	99 1535 920 05

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

5

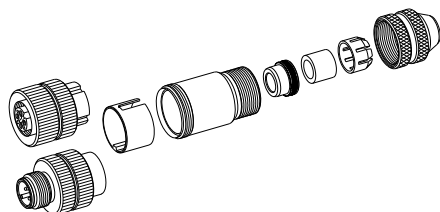
5–8 mm

99 1439 820 05

c us

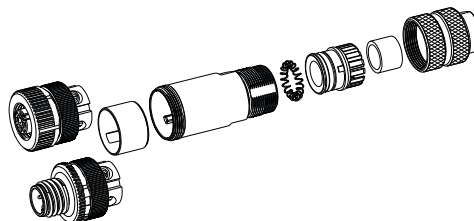
99 1533 820 05

Cable connectors, with shielding ring, shieldable



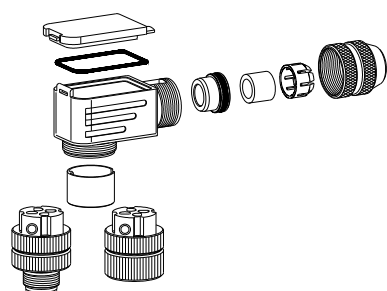
Female insert/
Male insert
Insulating sleeve tightly
built into coupling sleeve
Shielding ring
O-ring
Seal
Pinch ring
Pressing screw

Cable connectors, with iris type spring, shieldable



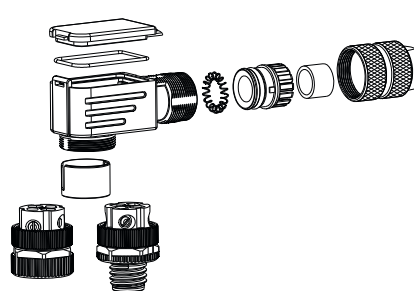
Female insert/
Male insert
Insulating sleeve, Sleeve,
Pressing spring, O-ring,
Pinch ring, Seal,
Pressing screw
are premounted

Angled connectors, shieldable

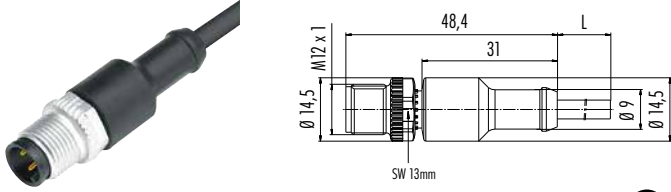
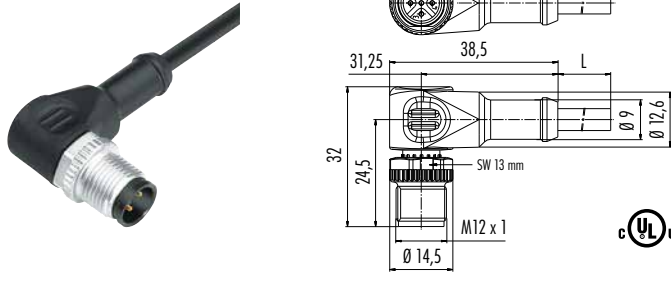
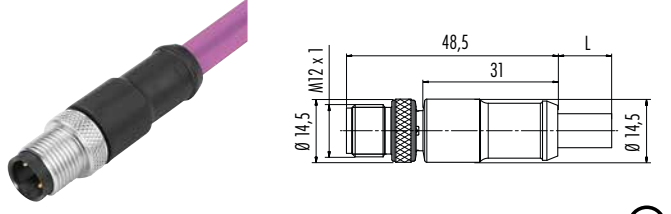
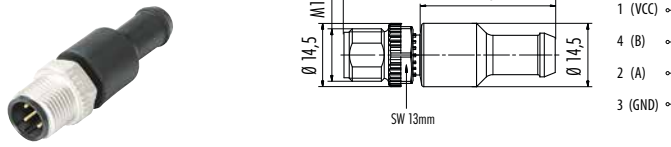
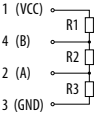


Female insert/
Male insert
Insulating sleeve tightly
built into coupling sleeve
Housing
Seal
Cover
Shielding ring
O-ring
Seal
Pinch ring
Pressing screw

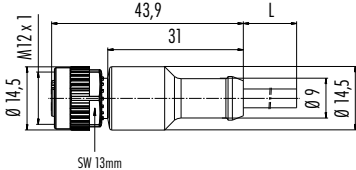
Angled connectors, with iris type spring, shieldable



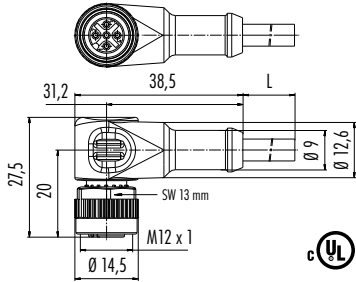
Female insert/
Male insert
Insulating sleeve, Housing,
Pressing spring, O-ring,
Pinch ring, Seal,
Pressing screw
are premounted
O-ring
Cover

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		Contacts	Cable length	Ordering-No. ¹⁾	
		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	
				Wiring diagram	
					

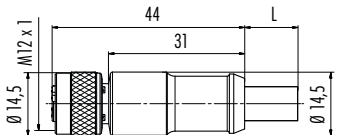
Specifications	Cable connectors, moulded			
Contacts	2 PROFIBUS	3	4	5
Wire gauge	0,25 mm² (AWG 24)	0,34 mm² (AWG 22)		
Mechanical operation	> 100 Mating cycles			
Temperature range	– 25 °C /+ 80 °C	– 25 °C /+ 90 °C (+ 80 °C UL)		
Rated voltage	60 V	250 V		60 V
Pollution degree	3			
Rated current (40°C)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

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



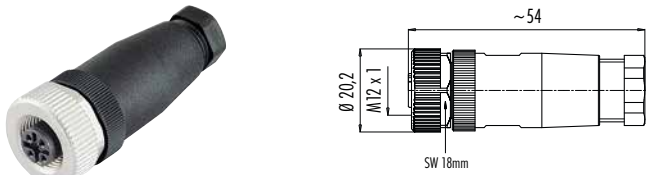
Female cable connector, shielded, PROFIBUS		2	2 m	77 4330 0000 60702-0200	
			5 m	77 4330 0000 60702-0500	
			10 m	77 4330 0000 60702-1000	

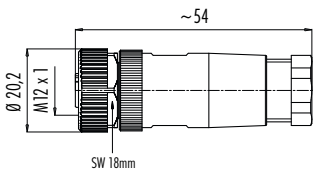


Specifications	Standard Cable					
Contacts	3		4		5	
Wire gauge	3 x 0,34 mm ² (AWG 22)		4 x 0,34 mm ² (AWG 22)		5 x 0,34 mm ² (AWG 24)	
Material jacket	PVC grey	PUR	PVC grey	PUR	PVC grey	PUR
Insulation of wire	PVC grey	PP	PVC grey	PP	PVC grey	PP
Design of wire (mm)	32 x 0,1					
Cable diameter (mm)	4,5	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

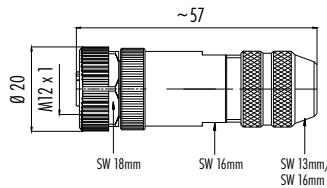
¹⁾ Standard cable length is 2 m/5 m. Other length on request.

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



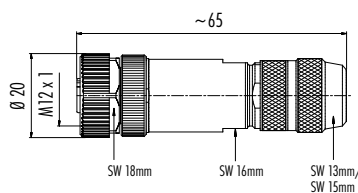
Female cable connector, screw clamp/wire clamp, with shielding ring, shieldable

Contacts	Cable outlet	Screw clamp	Wire clamp
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	–



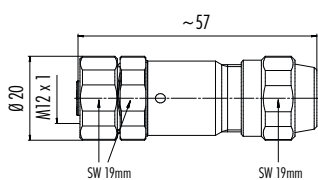
Female cable connector, screw clamp/wire clamp, iris type spring, shieldable

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

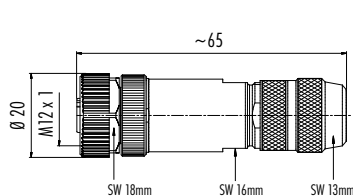
4	5,5–8,6 mm	99 1430 995 04
5		99 1436 995 05



Female cable connector, crimp, shieldable

4	5–8 mm	99 1434 810 04
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NEW



Crimp contacts see page 150

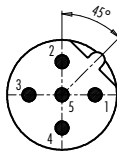
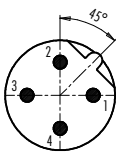
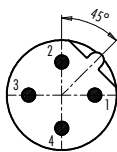
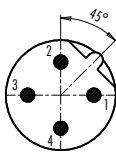
Contact arrangements male insert (mating side)

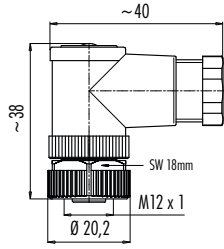
2/4 contacts

3 contacts

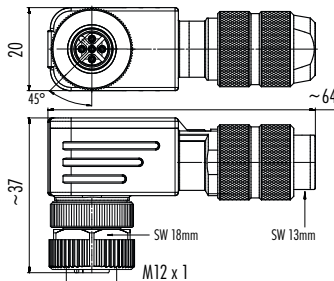
4 contacts

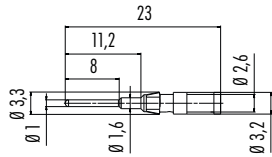
5 contacts

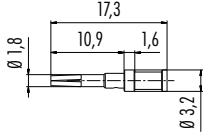


Description	Drawing	Contacts	Cable outlet	Ordering-No.
Female angled connector, metal locking system, screw clamp		4	4–6 mm	99 0430 135 04
			6–8 mm	99 0430 235 04
		5	4–6 mm	99 0436 135 05
			6–8 mm	99 0436 235 05

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

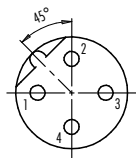
Male angled connector, screw clamp/wire clamp, iris type spring, shieldable		5	5–8 mm	99 1438 820 05		99 1534 820 05

Male contact, 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

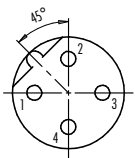
Female contact, PU 100 pieces		0,14 mm ² – 0,34 mm ²	26–22	61 1227 146
		0,34 mm ² – 0,5 mm ²	22–20	61 1155 146
		0,75 mm ² – 1,0 mm ²	18–16	61 1228 146
		1,0 mm ² – 1,5 mm ²	16	61 1229 146

Contact arrangements female insert (mating side)

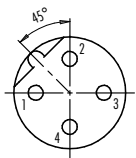
2/4 contacts



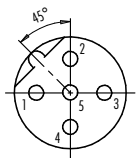
3 contacts



4 contacts



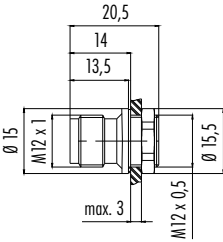
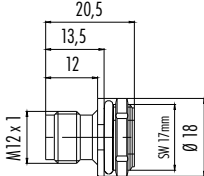
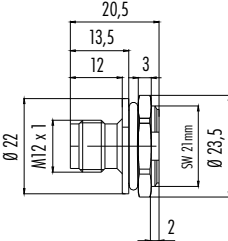
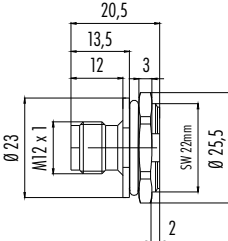
5 contacts



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	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 5	PG 9 M16 x 1,5 M16 x 1,5	86 4233 1002 00004 86 4333 1002 00004 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 5	PG 13,5 M20 x 1,5 M20 x 1,5	86 4533 1002 00004 86 4633 1002 00004 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

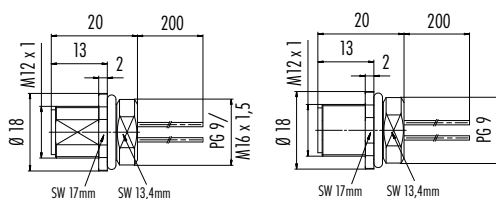
Drawing

Contacts

Fix. thread

Ordering-No.

Male panel mount connector with single wires, metal housing

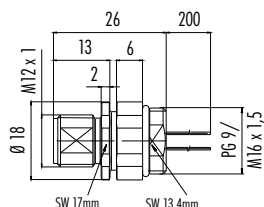


Stainless steel version

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

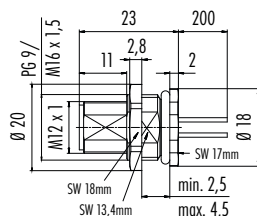


Male panel mount connector, positioning possible, with single wires, metal housing



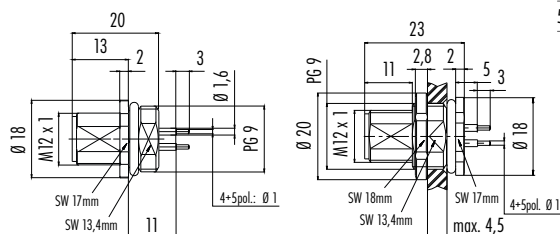
4	PG 9	76 0733 0011 00104-0200
	M16 x 1,5	76 0833 0011 00104-0200
5	PG 9	76 0733 0011 00105-0200
	M16 x 1,5	76 0833 0011 00105-0200

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

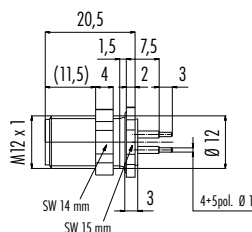


fastened from back side

front fastened

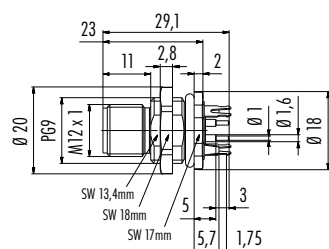
Contacts	Fix. thread	Fastened from back side	Front fastened
4	PG 9	—	86 0533 1000 00004
5	PG 9	86 0133 0000 00005	86 0533 1000 00005

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

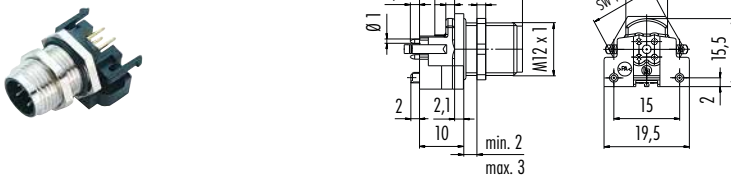
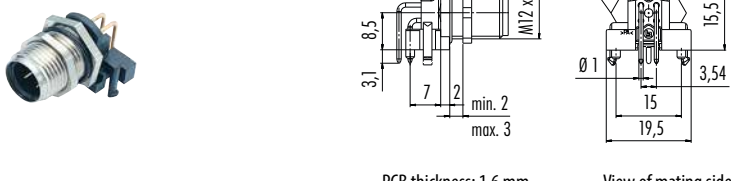
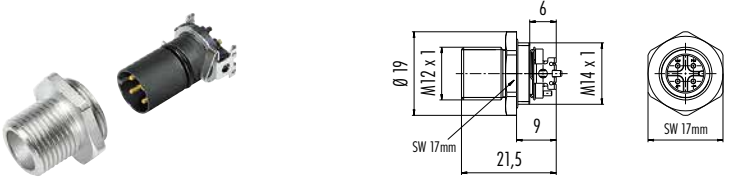
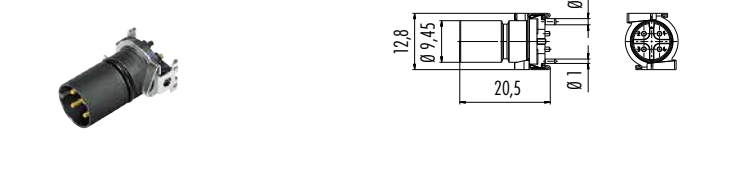
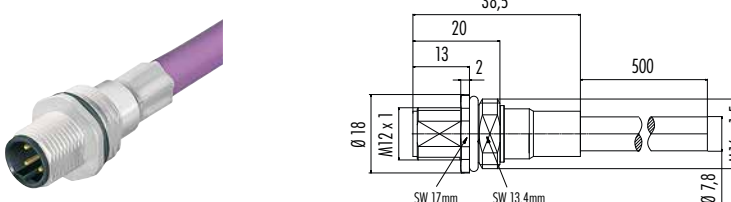
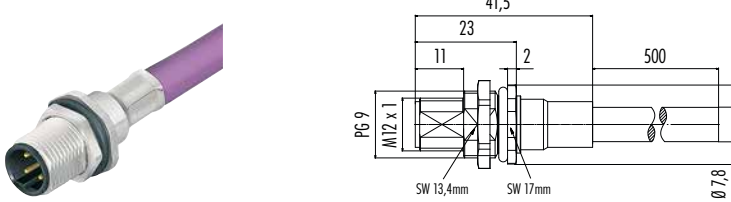


PCB thickness: 1,6 mm

Hexagonal nut enclosed loose

5	PG 9	86 0533 1120 00005
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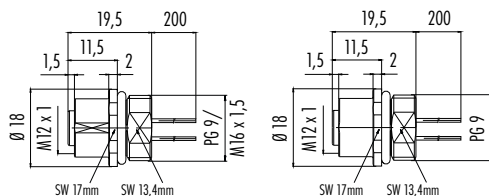
¹⁾ Standard wire length is 200 mm for 76-order-numbers. Other length on request.

Description	Drawing	Contacts	Ordering-No.
Male receptacle for PCB assembly	 PCB thickness: 1,6 mm	5	99 4445 200 05 99 4445 458 05 with shielding sheet
Male angled receptacle for PCB assembly	 PCB thickness: 1,6 mm	5	99 4445 202 05 99 4445 601 05 with shielding sheet
Male panel mount connector, SMT, with housing, shieldable		4 5	9 mm 99 4431 401 04 99 4441 401 05
			NEW
Male panel mount connector, SMT, with housing, shieldable		4 5	— 09 0443 601 04 09 0445 601 05
			NEW
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

Female panel mount connector with single wires

Drawing



Stainless steel version

Contacts

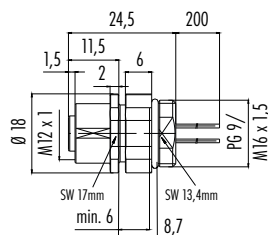
Fix. thread

Ordering-No.

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
5	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

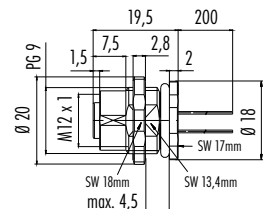


Female panel mount connector, positioning possible, with single wires, metal housing



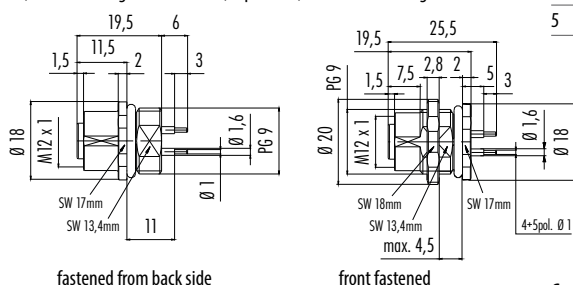
4	PG 9	76 0734 0011 00104-0200
	M16 x 1,5	76 0834 0011 00104-0200
5	PG 9	76 0734 0011 00105-0200
	M16 x 1,5	76 0834 0011 00105-0200

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

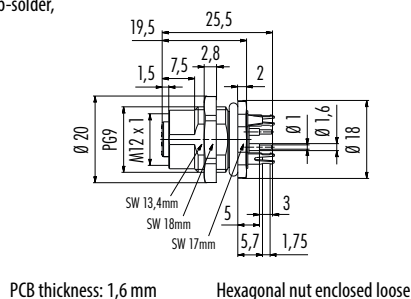
Female panel mount connector, dip-solder, metal housing/front fastened, dip-solder, 6 mm contact length



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

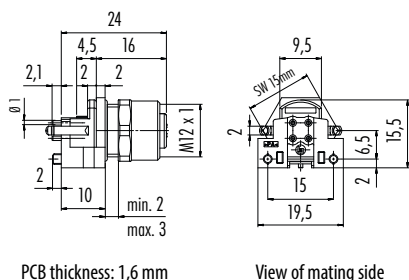


Female panel mount connector, front fastened, dip-solder, with shielding sheet



Contacts	Fix. thread	Ordering-No.
5	PG 9	86 0534 1120 00005

Female receptacle for PCB assembly

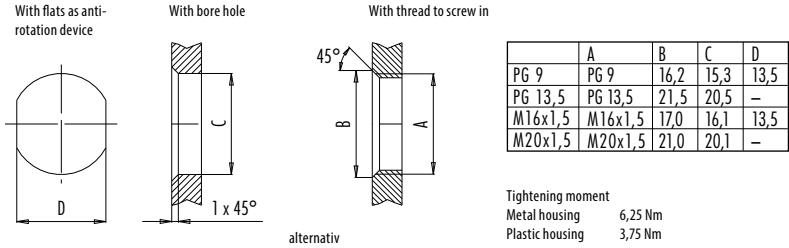


Contacts	Ordering-No.
5	99 4442 200 05
	99 4442 458 05 with shielding sheet

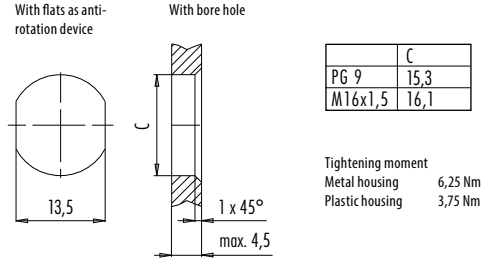
Description	Drawing	Contacts	Ordering-No.	
Female angled receptacle for PCB assembly, for PCB mounting	 PCB thickness: 1,6 mm View of mating side	5	99 4442 202 05	99 4442 601 05 with shielding sheet
Female panel mount connector, SMT, with housing, shieldable	 SW 15mm SW 17mm	4	9 mm 13 mm	99 4432 401 04 99 4432 402 04
Female panel mount connector, SMT, shieldable	 SW 15mm SW 17mm	5	9 mm 13 mm	99 4442 401 05 99 4442 402 05
Female panel mount connector M16, with PROFIBUS-cable, shielded	 SW 17mm SW 13,4mm	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	 SW 24mm max. 9 min. 1 SW 18mm SW 27mm SW 18mm	4	09 5242 00 04	

Panel cut out

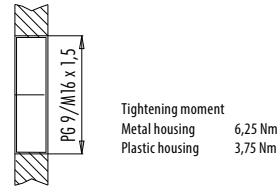
Panel mount connector



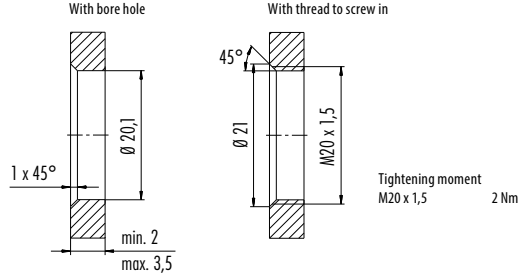
Panel mount connector, front fastened



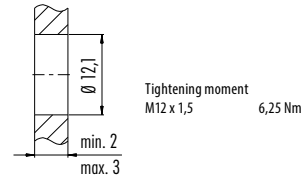
Panel mount connector, positioning possible



Panel mount connector, screw clamp termination



Panel mount connector, with thread M12



Lead-through for control cabinet

