

## M12 female 0° A-cod. with cable shielded

PUR 4x0.34 shielded gy UL/CSA+drag ch. 15m

Female straight M12, 4-pole shielded

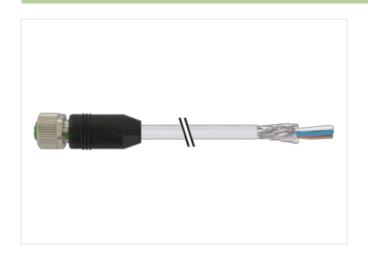
with cable sleeves

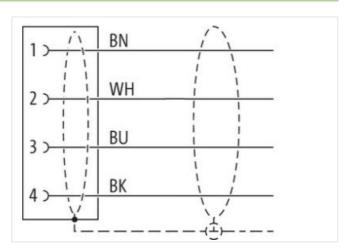
Plastic housings with good resistance against chemicals and oils.

The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## **Link to Product**

## Illustration









Product may differ from Image













Cable length

15 m

Side 1

Tightening torque

0,6 Nm

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-20



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879470827
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	1
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	241
Cable Type	3



stay connected

Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foll           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Cable weigth         50,6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer-diameter insulation         ±,5 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         ± 5 Shore D           Ingredient freeness wire insulation         ± 5 Shore D           Joseph Green wire insulation         + 2           Amount strands (wire)         0,1 mm           Conductor vire         5 In @ 25 °C   horizontal <t< th=""></t<>
Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Cable weigth         50.6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D<
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Banding Fleece, Foil wire arrangement brown, black, blue, white  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Cable weigth 50.6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5.3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) 2 kV @ 60 s  AC withstand voltage power (wire - shield) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s
wire arrangement brown, black, blue, white No. of bending cycles (C-track) 5 Mio. @ 25 °C Cable weigth 50.6 g/m Material jacket PUR Shore hardness jacket 90±5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5,3 mm Tolerance outer diameter (sheath) ±5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 70±5 Shore D Ingredient freeness wire insulation read-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material word wire Stranded copper wire, bare Conductor type (wire) stranded capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s
No. of bending cycles (C-track)  5 Mio. @ 25 °C  Cable weigth  50,6 g/m  Material jacket  PUR  Shore hardness gicket  90 ± 5 Shore A  Freedom from ingredients (jacket)  10 Starting wire insulation  PP  Amount wires  4  Couter diameter (sulation  Couter diameter insulation  PP  Amount wires  4  Couter diameter tolerance core insulation  Couter diameter tolerance core insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  For bigle wires  Amount strands (wire)  42  Diameter of single wires  0,1 mm  Conductor crosssection (wire)  0,34 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Stranded copper wire, bare  Conductor type (wire)  Stranded capper wire, bare  Conductor day (standard)  to DIN VDE 0298-4  Current load capacity (standard)  Current load capacity (standard)  Current load capacity (standard)  Current load capacity (wire - shield)  Power frequency withstand voltage power (wire - shield)  Ac withstand voltage power (wire - wire)  2 kV @ 60 s  Ac withstand voltage power (wire - wire)  2 kV @ 60 s  Ac withstand voltage power (wire - wire)  2 kV @ 60 s
Cable weigith 50,6 g/m  Material jacket PUR  Shore hardness jacket 90±5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ±5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ±5 %  Shore hardness wire insulation 70±5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m@ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power (wire - shield) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s
Material jacket
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 3,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power (wire - shield) 2 kV @ 60 s  AC withstand voltage power (wire - shield) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s
Freedom from ingredients (jacket)  Outer-diameter (jacket)  5,3 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter tolerance core insulation  Note a swire insulation  Tolerance swire insulation  1,25 mm  Outer diameter tolerance core insulation  Tolerance swire insulation  Toles 5 %  Shore hardness wire insulation  Toles 5 %  Shore hardness wire insulation  Ingredient freeness wire insulation  Ingredient free, CFC-free, halogen-free, Electrica, halogen-free, silicone-free, silicone-fre
Outer-diameter (jacket)       5,3 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       5 m@ 25 °C   horizontal         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,8 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - shield)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       2 kV @ 60 s
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter loterance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 2 kV @ 60 s
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Amount wires  4  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freenesters, silicone-free, cadmium-free, CFC-free, halogen-free, silicone-free, cadmium-free, CFC-free, halogen-free, silicone-free, cadmium-free, CFC-free, halogen-free, silicone-free  Ingredient freeness wire insulation  Ingredient free, cadmium-free, CFC-free, halogen-free, silicone-free, si
Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,8 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - shield)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       2 kV @ 60 s
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Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,8 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - jacket)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       2 kV @ 60 s
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Power frequency withstand voltage power (wire - jacket)  2 kV @ 60 s  AC withstand voltage power (wire - wire)  2 kV @ 60 s
(wire - jacket)  AC withstand voltage power (wire - wire)  2 kV @ 60 s
Min operating temporature (static) 40 °C
wiii. Operating temperature (static) -40 C
Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic) -25 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
chemical resistance Good, application-related testing
Gasoline resistance Good, application-related testing
Oil resistance DIN EN 60811-404   Good, application-related testing
Bending radius (fixed) 5 x Outer diameter
Bending radius (dynamic) 10 x Outer diameter
No. of torsion cycles 2 Mio.
Torsion speed 35 cycles/min