

M12 female 90° A-cod. with cable shielded

PUR 4x0.34 shielded bk UL/CSA+drag ch. 2.5m

Female 90° M12, 4-pole shielded

with cable sleeves

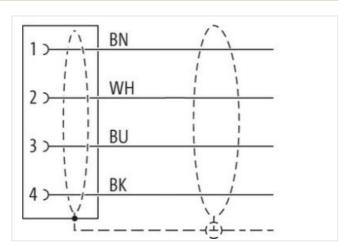
Plastic housings with good resistance against chemicals and oils.

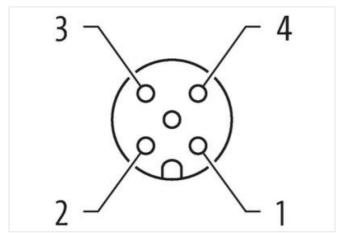
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

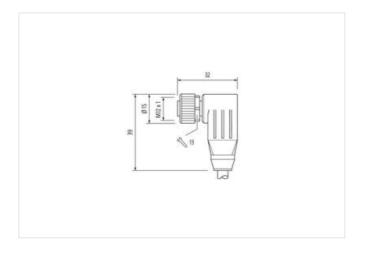
Link to Product

Illustration









Product may differ from Image













Cable length

2,5 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: 2024-05-10



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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	4065909048580
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)	I
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
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	

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Section Sect	Cable identification	641
Jackst Color Specification		
Type of Certificates CURus Amount stranding 1 Cable shelding (type) copper braid, finned Cable shelding (coverage) 80 % Banding Fleece, Foll Wire arrangement brown, Bdack, Buse, withite Traversing distance (C-track) 5 m @ 25 % Thortzontal Cable weight 50,6 gm Material jacket PUR Shore Andriess jacket 90 ± 5 Shore A Freedom from ingerdents (jacket) 15 % Outer-dismeter (jacket) 5,3 mm Tolerance outer dismeter (sheleth) 1 5 % Marterial wire insulation PP Amount wires 4 Outer dismeter insulation 1 25 % Normal microses were insulation 1 25 % Improduct freeness were insulation 1 25 % Improduct freeness were insulation 1 25 % Improduct freeness were insulation 1 25 % Improductor orossection (wire) 4 Conductor orossection (wire) 0,34 mm² Material conductor wire 6 microssection (wire) Conductor froess		
Amount stranding 1 Stranding 4 wires twisted Cable shiekding (coverage) 80 % Bandding Fleese, Foil wire arrangement brown, black, blue, white Traversing distance (C-track) 5 m @ 25 °C horizontal Cable weight 5.06 g/m Material jacket PUR Shore hardness (sicket) 90 ± 5 Shore A Freedom from ingredients (jacket) 18 ± 5 % Material vive insulation PP Amount wires 4 Outer diameter insulation PP Amount wires 4 Outer diameter insulation PP Amount wires 4 Outer diameter insulation 75 5 Shore D Shore hardness wire insulation 75 5 Shore D Norman stranding (vire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,24 mm² Conductor type (wire) 42 Diameter of single wire 0,1 mm² Conductor type (wire) 35 7 Mm² 20 V Cornet boad capacity fin		
Strandling A wires twisted Cable shielding (type) cooper braid, timed Cable shielding (type) 80 %		
Cable shielding (type) copper braid, threed Cable shielding (coverage) 80 % Bandring Fleece, Foll wire arrangement brown, black, blue, white Traversing distance (C-track) 5 m @ 25° (1 horizontal Cable weight 50.6 gm Material galoket PUR Shore hardness jacket PUR Shore hardness jacket 90 € 5 Shore A Feedom from ingredients (galoket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (gleath) 5 % Material wire insulation PP Amount wires 4 Cuter diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Ingredient fleeness wire insulation 5 % Ingredient fleeness wire insulation 7 € 5 Shore D Ingredient fleeness wire insulation 7 € 5 Shore D Ingredient fleeness wire insulation 7 € 5 Shore D Ingredient fleeness wire insulation 7 € 5 Shore D Ingredient fleeness wire insulation 7 € 5 Shore D		
Banding Flosco, Foil		
Piece, Foli		
wire arrangement brown, black, blue, white Traversing distance (C+rack) 5 m @ 25 °C horizontal Cable weigh 50,8 m Material jacket PUR Material jacket PUR Shore harriness jacket PUR Freedom from ingredients (jacket) 15,3 mm Tolerance outer diameter (jacket) 5,3 mm Tolerance outer diameter (jacket) 5,3 mm Tolerance outer diameter (jacket) 5,3 mm Tolerance outer diameter (jacket) 1,25 mm Outer diameter insulation PP Anount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance ore insulation 1,25 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1 to 1,5 mm Outer diameter of single wires 1,1 mm Conductor crossection (wire) 42 Dameter of single wires 0,1 mm Conductor rossection (wire) 0,34 mm² Material overluctor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 500 V V Current load capacity (islandard) to DIN IVDE 0298-4 Current load capacity (islandard) to DIN IVDE 0298-4 Current load capacity (wino-wire) 4,8 A Electrical resistance line constant wire 4,8 A Current load capacity withstand voltage (wire - shield) 2 kW @ 60 s AC withstand voltage (wire - shield) 2 kW @ 60 s Min. operating temperature (static) Min. operating temperature (static) Min. operating temperature max. (dynamic) 40 °C @ 10000 h Operation Operating temperature max. (dynamic) 60 °C, 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 60 °C, 90 °C @ 10000 h Operation Oli resistance Good, application-related testing Oli resistance Conductor (diameter Bending radius (fixed) 5 × Outer diameter Travel speed (C+rack) 5 Min. @ 25 °C No. of torsion cycles 2 Min. of torsion c		
Traversing distance (C-track) 5 m @ 25 °C horizontal Cable weight 50.6 g/m Material Jacket PUR Shore hardness jacket 90.2 5 Shore A Freedom from ingredients (jacket) 15.3 mm Tolerance outer diameter (jacket) 5.3 mm Tolerance outer diameter (jacket) 1.5 % Material wire insulation PP Amount wires 4 Older diameter insulation 1.25 mm Outer diameter insulation 70.2 5 Shore D Older diameter insulation 70.2 5 Shore D Ingredient freeness wire insulation 70.2 5 Shore D Ingredient freeness wire insulation 42 Planeter of single wires 0.1 mm Conductor or sessection (wire) 0.34 mm² Material conductor vire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Courset load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Qkm @ 20 °C Courseting temperature (seat) 40 °C Max. operating temperature (se		·
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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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2 kV @ 60 s Electrical resistance line constant wire 4.8 A AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance EG 600332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation 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	Outer diameter tolerance core insulation	± 5 %
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 Nominal voltage AC max. 300 V 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 AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - size) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A Fiame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radi	Shore hardness wire insulation	70 ± 5 Shore D
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 Nominal voltage AC max. 300 V 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 AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - size) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A Fiame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radi	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V 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 AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Fravel speed (C-track) 5 Min. @ 25 °C No. of torsion cycles 2 Min. Torsion stress ± 30 °/m		·
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Nominal voltage AC max. 300 V 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 AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1990 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Conductor type (wire)	``
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AC withstand voltage (wire - wire) Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) AC withstand voltage (shield) AC withstand voltage (wire - shield) AC withstand voltage (shield) AC withstand volt	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket) AC withstand voltage (wire - shield) AC withstand voltage (shield) AC withstand vol	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Jacket) AC withstand voltage (wire - shield) AC with with with with with with with with	AC withstand voltage (wire - wire)	2 kV @ 60 s
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Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Operating temperature min. (dynamic)	-25 °C
Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	UV resistance	DIN EN ISO 4892-2 A
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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Flame resistance	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Gasoline resistance	
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Bending radius (fixed)	5 x Outer diameter
Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m		10 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m		5 Mio. @ 25 °C
		2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/m
	Torsion speed	35 cycles/min