

M12 male 90° / M12 female 90° B-cod. shielded

PUR AWG24+22 shielded vt UL/CSA+drag ch. 7m

Male 90° – female 90° M12 – M12, 4-pole B-coded shielded

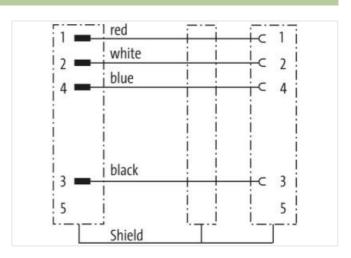
Plastic housings with good resistance against chemicals and oils.

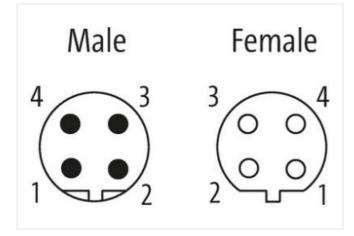
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

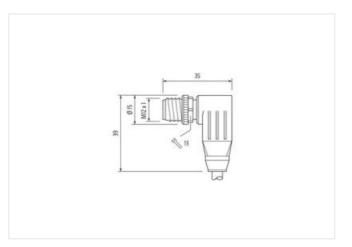
Link to Product

Illustration



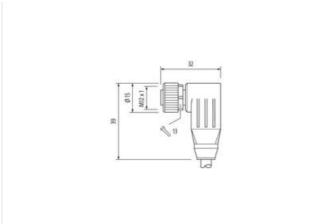












Product may differ from Image





Cable length	7 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
No. of poles	4
Width across flats	SW13
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
No. of poles	4
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879456777
Packaging unit	1
Electrical data Supply	



stay connected

Operating vallage DC max. 60 V Operating vallage DC (UL listed) 30 V Degree of protection (EN IEC 60529) IP67 Additional condition protection (EN IEC 60529) IP67 Rated surge vallage 1.5 KV Machanic and State (In Control of Control (In Control of Control	Operating voltage AC max.	60 V
Operating part protection (Filectical Name) 4 A Degree of protection (Filectical Filectical Filectic	Operating voltage DC max.	60 V
Ourveint operating per contact max. 4 A Device profection Effectional Degree of protection (EN LEC 60529) IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kW Material group (EC 600641) I Mechanical data Contour for corrugated hose without Mechanical data Material data Zm die casting Mechanical data Mounting data Inserted, screwed, Shaking protection Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Coperating temperature min. 25 °C Operating temperature max. 85 °C Actional condition temperature range depending on cable quality Important installation notes Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ities. Note on bendring radius Attentions. Observe the permissible bendring radii when laying cables, as the IP protection class can be adangered by excessive bendring forces. Conformity Product standard DN EN 61076-2-101 (M12) Installation Cable Attentions. Observe the permissible bendring radii when laying cables, as the IP protection class can be adange	Operating voltage AC (UL-listed)	30 V
Degree of protection Electrical Degree of protection EN IEC 60529 IPB7 Additional condition protection degree Inserted, screwed	Operating voltage DC (UL-listed)	30 V
Degree of protection (EN IEC 60329) IP67 Additional condition protection degree inserted, screwed inserted data Contour for corrugated hose without Mechanical data I Macerial data Coding locking Noterial Zinc dejectable Version of Coding locking inserted inserted, screwed, Shaking protection Environmental Naracteristics Climatic Version of Coding Inserted inserted, screwed, Shaking protection Environmental characteristics Climatic Version of Coding Inserted inserted, screwed, Shaking protection Environmental characteristics Climatic Version of Coding Inserted inserted, screwed, Shaking protection Environmental characteristics Climatic Version of Coding Inserted inserted, screwed, Shaking protection Environmental characteristics Climatic Version of Coding Inserted inserted, screwed, Shaking protection Environmental characteristics Climatic Version of Coding Inserted Ins	Current operating per contact max.	4 A
Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60864-1) 1 Mechanical data Mechanical data Mechanical data Muterial data Casting looking Nickeled Cooking material Zinc dis-casting Mechanical data Muterial data Muterial group (IEC 60864-1) I Mechanical data Muterial data Muterial group data Zinc dis-casting Mechanical data Munting data Muterial group data Muterial	Device protection Electrical	
Pollution Digree 3 Rated surge voltage 1,5 kV	Degree of protection (EN IEC 60529)	IP67
Raterial group (IEC 80864-1) 1 Material group (IEC 80864-1) 1 Mechanical data Without Mechanical data Meterial data Mechanical data Meterial data Coating lacking Nickeled Locking metrial Zinc die-casting Mechanical data Mounting data Meuriting method Environmental characteristics Climatic Coperating lemperature min. -25 °C Operating lemperature max 65 °C Additional condition temperature range depending on cable quality Important installation notes Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bonding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Product standard (bit N 61076-2-101 (M12) Installation Cable (white, blue), (black, red) Cable (entification) 803 Ancest Cofer violet Type of Certificate cultification Amount stranding (type 2)	Additional condition protection degree	inserted, screwed
Material group (IEC 80684-1) I	Pollution Degree	3
Mechanical data Contour for corrugated hose without	Rated surge voltage	1,5 kV
Contour for corrugated hose without Mechanical data Material data Casting locking Nickeled Locking material Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Environmental characteristics Climatic Operating temperature min. 25° °C Operating temperature min. 25° °C Additional condition temperature range depending on cable quality Important installation notes Note on strain reliel Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies. Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable wire arrangement (white, blue), (black, red) Cable identification 803 Jacket Color violet Type of Cartificate clobr Type of Cartificate clobr Stranding (type 2) 2 Stranded joints twisted Amount stranding (type 2) 1 1 Stranding (type 2) 2 Stranded joints twisted Cable identification 65% Stranding (type 2) 2 Stranded joints twisted Cable identification (white, blue), (black, red) Cable identification (type 2) 2 Stranded joints twisted Cable identification (twinte, blue), (black, red) Cable identification (white, blue), (black, red) Cable identification (white, blue), (black, red) Cable identification (installation) (installation	Material group (IEC 60664-1)	
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Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable wire arrangement (white, blue), (black, red) Cable identification 803 Jacket Color violet Type of Certificate cURus Amount stranding 1 Stranding 2 wires twisted Amount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (white, blue), (black, red) Cable weigth 63,12 g/m Material jacket PUR Shore hardness jacket PUR Freedom from ingredients (jacket) 6,9 mm Tolerance outer diameter (sheath) 9E	Important installation notes	
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Cable shielding (coverage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (white, blue), (black, red) Cable weigth 63,12 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) 6,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2)	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted
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Outer-diameter (jacket) 6,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A
Material wire insulation PE	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 6,9 mm
	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 6,9 mm ± 5 %
Outer diameter insulation 2,1 mm	Product standard Installation Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 6,9 mm ± 5 % PE



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Shore hardness wire insulation lead-free, CFC-free, halogen-free Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire insulation (Data) PE Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (data) ± 53 % Ingredient freeness wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 1,5 mm Tolerance vire (Data) 2,2 MVG Amount transits wire (Data) 2,2 MVG Material conductor wire (Data) 2,2 MVG Current load capacity min. Wire (Data) 2,2 MVG Current load capacity min. Wire (Data) 4,5 A Current load capacity min. Wire (Data) 5,6 A Electrical function wire (Data) 2,4 MVG Current load capacity min. Wire (Data) 5,6 A Electrical function wire (Data) 5,4 MVm Action of the province	Outer diameter tolerance core insulation	±5%
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Conductor crosssection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire coper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 24 AWG Mominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Data Electrical function wire (Data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical function wire (Data) Power AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity min. (Wire) 2 kV @ 60 s Electrical capacity min. (Wire) 10 AVG Max. operating temperature (fixed) 90 °C Operating temperature (min. (dynamic) 70 °C Clerating temperature min. (dynamic) 70 °C Clerating temperature min. (dynamic) 70 °C Clerating temperature min. (dynamic) Good, application-related testing Gasoline resistance Good, application-related testing	Amount strands (wire)	19
Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 1,5 mm Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount strands wire (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material value of value	Diameter of single wires	24 AWG
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Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. Wire (Data) 6 A Electrical function wire Data Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, applic		22 AWG
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Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega \text{/km}$ Electrical resistance coating wire (Data) $54 \Omega \text{/km}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance $UL 1581 \S 1100 \text{ FT2} \text{ IEC } 60332 - 2 - 2 \text{ UL } 1581 \S 1090$ chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Electrical function wire	Data
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AC withstand voltage (wire - wire) Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Electrical resistance line constant wire	78 Ω/km
Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) Min. operating temperature (static) AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) 40 °C Max. operating temperature (fixed) B0 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Electric capacitance	40000 pF/km
Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Max. operating temperature (fixed)	0° 08 °C
Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Operating temperature min. (dynamic)	-30 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
	chemical resistance	Good, application-related testing
Oil resistance DIN EN 60811-404 Good, application-related testing	Gasoline resistance	Good, application-related testing
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Bending radius (installation) x Outer diameter	Bending radius (installation)	x Outer diameter
Bending radius (fixed) 6 x Outer diameter	Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic) 10 x Outer diameter	Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track) 1 Mio.	No. of bending cycles (C-track)	1 Mio.
Traversing distance (C-track) 5 m	Traversing distance (C-track)	5 m
Travel speed (C-track) 3 m/s	Travel speed (C-track)	3 m/s
No. of torsion cycles 2 Mio.	No. of torsion cycles	2 Mio.
Torsion stress ± 30 °/m	Torsion stress	± 30 °/m
Torsion speed 35 cycles/min	Torsion speed	35 cycles/min