

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

PUR AWG24+22 shielded vt UL/CSA+drag ch. 15m

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

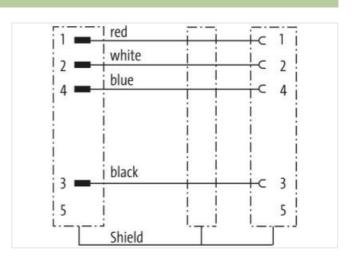
Plastic housings with good resistance against chemicals and oils.

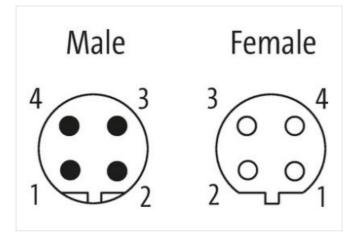
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

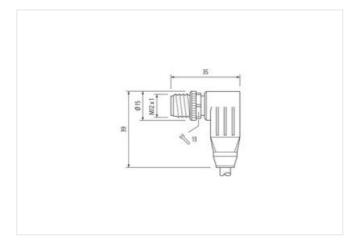
Link to Product

Illustration



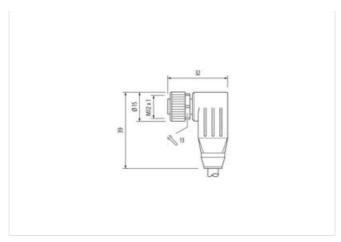








stay connected



Product may differ from Image





Cable length	15 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	4048879486736	
Packaging unit	1	
Electrical data Supply		



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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 Multiple 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)	
Mechanical data Material data Nickeled Zinc dis-casting Zinc	Mechanical data	
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Coating locking Nickeled Locking material 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 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 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 Installation Cable wire arrangement (white, blue), (black, red) Cable identification 803 Jacket Color violet Type of Cartificate CURUs Amount stranding 1 Stranding (type 2) 2 Stranded joints twisted Cable shielding (type)	-	
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Mechanical data Mounting method Environmental characteristics Climatio Operating temperature min. -25 °C Operating temperature max. 85 °C Additional condition temperature max. 85 °C Additional condition temperature may. 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 bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Protect standard DIN EN 61076-2-101 (M12) Installation Cable Value (Mile, blue), (black, red) Cable identification 803 Jacket Color violet Type of Certificate culflus Amount stranding (type 2) 1 Stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shielding (type) copper braid, tinned Cable shielding (type) copper braid, tinned Cable shielding (type) copper braid, tinned Cable weigth 63.12 g/m		
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Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Atention: 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 wighth 63,12 g/m Material jacket PUR Shore hardness jacket) 90 ± 5 Shore A Freedom from ingredients (jacket) (ead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5 % Material wire insulation PE	Operating temperature max.	85 °C
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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 (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 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	(white, blue), (black, red) 803 violet cURus
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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Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7 olerance outer diameter (sheath) 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	(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
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



Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	64 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 AWG
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)	± 53 %
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Amount wires (Data)	2
Amount strands wire (Data)	19
Diameter of single wires (Data)	22 AWG
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, application-related testing
Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	1 Mio.
Traversing distance (C-track)	5 m
Travel speed (C-track)	3 m/s
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min