

## M12 male 90° / M8 female 0° A-cod.

PVC 4x0.25 bk UL/CSA 0.6m

Male 90° – female straight M12 – M8, 3-pole with cable sleeves

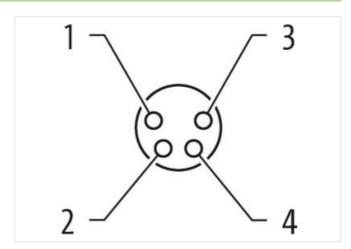
Plastic housings with good resistance against chemicals and oils.

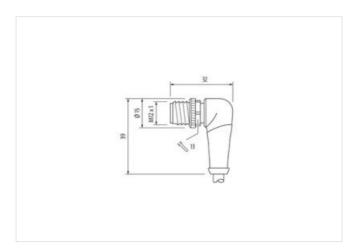
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## **Link to Product**

## Illustration





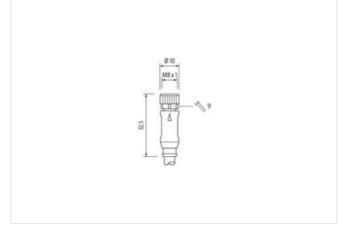






stay connected





Product may differ from Image











Cable length	0,6 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
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



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CTIN	ETIM-5.0	EC001855
Packaging unit         1           Electrical data (Supply)         Electrical data (Supply)           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Device protecting lectrical         V           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Radid surge voltage         1,5 kV           Material group (EC 60684-1)         1           Mechanical data   Metrial data         1           Coating of titling         nickel plated           Coating of titling         nickel plated           Coating of titling         nickel plated           Mechanical data   Mounting data         2 Inc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating perpenditure max.           Operating lemperature max.         45 °C           Adoptional condition temperature max.         85 °C           Adoptional condition temperature max.         85 °C           Adoptional restallation (Cable         Protect the commectors by suitable measures	customs tariff number	85444290
	GTIN	4065909026588
Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Operating voltage DC (UL sisted)         30 V           Operating voltage DC (UL sisted)         30 V           Current operating per contact max.         4 A           Device protection [Electrical         V           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Radies surpe voltage         1,5 kV           Malarial group (EC 6068+1)         I           Mechanical data   Material set         V           Coating of fitting         nickelple           Locking material         Zinc die casting           Mechanical data   Mounting data         Vince die casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature max.           Operating temperature max.         25 °C           Additional condition temperature may.         25 °C           Additional condition temperature may.         45 °C	Packaging unit	1
Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Operating voltage DC (UL sisted)         30 V           Operating voltage DC (UL sisted)         30 V           Current operating per contact max.         4 A           Device protection [Electrical         V           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Radies surpe voltage         1,5 kV           Malarial group (EC 6068+1)         I           Mechanical data   Material set         V           Coating of fitting         nickelple           Locking material         Zinc die casting           Mechanical data   Mounting data         Vince die casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature max.           Operating temperature max.         25 °C           Additional condition temperature may.         25 °C           Additional condition temperature may.         45 °C	Electrical data   Supply	
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Additional condition protection degree inserted, screwed Pollution Degree 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
Pollution Degree         3           Ratied surge voltage         1,5 k/V           Material group (IEC 69684-1)         1           Mechanical data   Material data         Coating of fitting           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Sinc die-casting           Mechanical data   Mounting data         William (Coational Conditional Conditional Conditional Conditional Conditional Conditional Conditional Conditional Condition temperature max.         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 radiu when laying cables, as the IP protection class can be endangered by excessive bending forces.           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)           Installation   Cable         Cable identification   Cable           Cable identification   Cable         Cable identification   Cable           Cabl		inserted screwed
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Mechanical data   Material data         Nickeled           Coating of litting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Environmental characteristics   Climatic           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           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 from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection class can be endangered by excessive bending from the protection		
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Coating of fitting nickel plated   Locking material		Niekolod
Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical datal Mounting datal         Mounting method         inserted, screwed, Shaking protection           Environmental Characteristics   Climatic         Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Value 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         Volue of 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), DIN EN 61076-2-104 (M8)           Installation   Cable (applied to permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable (applied to permissible permissible bending radii when laying cables, as the IP protection class can be endangered by exc		1.7.7
Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Comparing temperature min.         25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Volumental practice and		·
Mechanical data   Mounting method inserted, screwed, Shaking protection  Furironmental characteristics   Climatic  Operating temperature min.		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depring 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.  Note on bending radius 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 endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)  Installation   Cable  Cable identification 611  Cable Type 1  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Amount stranding 1  Stranding 4 wires twisted  Cable weigh 34,76 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,8 mm  Tolerance outer diameter (sheath) +5 %  Material wire insulation PVC  Amount wires 4  Quiter diameter insulation 1,25 mm  Outer diameter insulation 1,25 mm		Zinc die-casting
Environmental characteristics   Climatic Operating temperature min25 °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. 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), DIN EN 61076-2-104 (M8) Installation   Cable Cable identification 611 Cable Type 1 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weigth 34,76 g/m Material jacket PVC Shore hardness jacket PVC Shore hardness jacket PVC Guer-diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) 5 % Material wire insulation PVC Amount wires 4 Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 2,5 %	· · · · · ·	
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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.           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), DIN EN 61076-2-104 (M8)           Installation   Cable         Cable identification         611           Cable identification         611         Cable identification         Cable identification           Cable (Correction of properties)         1         Cable identification         Currection of the properties of the proper	Environmental characteristics   Climatic	
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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.           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           Installation   Cable         DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)           Installation   Cable         Cable 1 (March 1976)           Cable 1 (March 1976)         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         34,76 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         4.8 mm           Tolerance outer diameter (sheath)         ± 5 %           Andurt wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm	Operating temperature max.	85 °C
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), DIN EN 61076-2-104 (M8)           Installation   Cable         Image: Cable Type of the permissible dendification of the product standard	Additional condition temperature range	depending on cable quality
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Cable Type         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         34,76 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %		£11
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Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weigth         34,76 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %		
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Cable weight 34,76 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,8 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	wire arrangement	
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Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,8 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Material jacket	•
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,8 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Shore hardness jacket	85 ± 5 Shore A
Outer-diameter (jacket) 4,8 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Outer-diameter (jacket)	
Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Material wire insulation	PVC
Outer diameter tolerance core insulation ± 5 %	Amount wires	4
	Outer diameter insulation	1,25 mm
Shore hardness wire insulation 45 ± 5 Shore D	Outer diameter tolerance core insulation	±5%
	Shore hardness wire insulation	45 ± 5 Shore D

Operating temperature max. (dynamic)

UV resistance

Oil resistance

Flame resistance

chemical resistance

Gasoline resistance

Bending radius (fixed)

Bending radius (dynamic)

80 °C

DIN EN ISO 4892-2 A

5 x Outer diameter

10 x Outer diameter

Good, application-related testing

Good, application-related testing



Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	14
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,25 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3,6 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C

IEC 60332-2-2 | UL 1581 § 1090 | UL 1581 § 1100 FT2

DIN EN 60811-404 | Good, application-related testing