

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

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 35m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5** 

Female straight

M12, 4-pole

D-coded

shielded

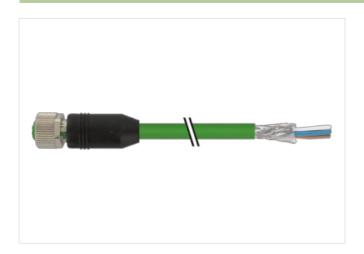
Further cable lengths on request.

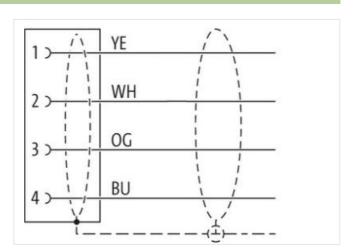
Plastic housings with good resistance against chemicals and oils.

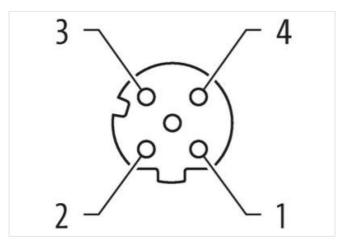
The resistance to aggressive media should be individually tested for your application. Further details on request.

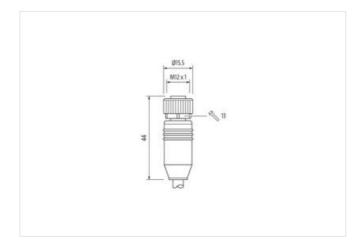
## **Link to Product**

## Illustration









Product may differ from Image





















Cable length	35 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	D
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
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	EC002599
customs tariff number	85444290
GTIN	4048879661355
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fur	nctionality
duplex	Full duplex
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

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: 2024-05-21



stay connected

Locking material  Zinc die-casting  Material screw connection  Zinc die-casting  Mechanical data   Mounting data  Mounting method  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.	Coating of fitting	nickel plated
Material screw connection Zinc die-casting  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25 °C  Operating temperature min. 25 °C  Operating temperature max. 85 °C  Additional condition temperature and 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 lies.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ordangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  wire arrangement white, yellow, blue, orange  Cable identification 796  Jacketi Color green  Type of Certificate CUPIus  Amount stranding 1  Stranding 4 wires around Core filler twisted  Cable shielding (type) copper braid, timed  Cable shielding (type) copper braid, timed  Cable shielding (coverage) 85 %  Banding Pieces, Foll  Filler yes  Banding Fiece, Foll  Filler yes  Banding Fiece, Foll  Filler yes  Shore A  Freedom from ingradients (gabaqt)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Culter-diameter (jacket) 0, 7 mm  Material jacket (Fince) 1, 4 mm  Auterial inner jacket 1, 4 mm  Auter		· · · · · · · · · · · · · · · · · · ·
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min		Zinc die-casting
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 stain relief Protect the connectors by sultable 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  wire arrangement white, yellow, blue, orange  Cable identification 796  Lacket Color green  Type of Certificate URBs  Available of Standard URBs  Stranding 4 wires around Core filter twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 85 %  Banding Floece, Foll  Filter yes  Wire arrangement white, yellow, blue, orange  Cable weight 98,3 gm  Material jacket PUR  Shore hardness jacket 98 Shore A  Freedom from ingredents (gacket) 194 Bead-free, cardinum-free, CFC-free, halogen-free, silicone-free  Outer diameter (gacket) 78 m  Attention (gacket) 14 m  Color (inner jacket) 15 %  Material inner jacket FRNC  Color (inner jacket) 14 m  Anount strandies wire insulation 194 FE  Anount wires  4 Couter diameter (esheath) 55 %  Material inner jacket FRNC  Color (inner jacket) 14 m  Outer diameter insulation 194 FE  Anount wires  4 Couter diameter insulation 194 FE  Anount diameter insulation 195 Shore D  Ingredient freeness wire insulation 196 Shore D  Diameter of single wires C  Conductor crosssection (wire) 22 AWG  Material conductor wire Sizanded copper wire, bare	Mechanical data   Mounting data	·
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 lies.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending twoss.  Conformity  Product standard DIN EN 61076-2-101 (M12) Installation [Cable  wire arrangement white, yellow, blue, orange Cable identification 796 Lasked Color green Type of Certificate CURus Amount stranding 1 Stranding 4 wires around Core filler twisted Cable ishelding (coverage) 85 % Banding (pye) copper braid, tinned Cable shielding (coverage) 85 % Banding Fierce, Foil Filler yes Wire arrangement white, yellow, blue, orange Cable wingth 89.3 g/m Meterral jacket PUR  Material jacket (seath) 67 mature  Material jacket (seath) 1.4 mm  Outer diameter (sheath) 1.4 mm  Outer diameter insulation PE  Amount strandness wire insulation 1.4 mm  Outer diameter indexness vire insulation 1.4 mm  Outer diameter indexness vire insulation 1.6 ms. Amount stranding 1.5 ms.  Diameter of single wires 22 AWG  Material conductor wire 9 Stranded copper wire, bare		inserted screwed Shaking protection
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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.  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, yellow, blue, orange Cable identification 796  Jacket Color green  Type of Certificate culture  Jacket Color green  Gable identification 4 virus around Core filler twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 85 %  Banding Fleece, Foil Filler yes Write arrangement white, yellow, blue, orange Cable weight 69,3 g/m  Material jacket PUR  Shore hardness jacket 89 Shore A  Freedom from ingredients (facket) 6,7 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket FRNC  Outer diameter (jacket) natur  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter (sheath) ± 5 %  Material miner jacket FRNC  Outer diameter switch insulation FRE  Material conductor wire Switch insulation for Shore bardness wire insulation for Shore bardness wire insulation for Shore D  Ingredient freeness wire insulation for Shor	•	
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Attention: Observe the permissible bending radii when laying cables, as the IP profection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  wire arrangement white, yellow, blue, orange Cable identification 796  Jacket Color green Type of Certificate cURus  Amount stranding 1 Stranding 4 wires around Core filler twisted Cable shielding (type) copper braid, tinned Cable shielding (type) copper braid, tinned Cable shielding (coverage) 85 % Banding Fleece, Foil Filler yes wire arrangement white, yellow, blue, orange Cable wighth 69,3 g/m Material jacket PUR Shore hardness jacket 89 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6,7 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket FRNC Color (inner jacket) natur Material wire insulation PE Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter insulation 55 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 65 Shore D Ingredient freeness wire insulation 12 AWG Condouctor crosssection (wire) 22 AWG Condouctor crosssection (wire) 54 Stranded coppper wire, bare	Important installation notes	
endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  wire arrangement white, yellow, blue, orange  Cable identification 796  Jacket Color green  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires arrund Core filler twisted  Cable shielding (type) copper braid, tinned  Cable shielding (goverage) 85 %  Banding Fleece, Foil  Filler yes  wire arrangement white, yellow, blue, orange  Cable weight 69,3 g/m  Material jacket PUR  Shore hardness jacket 89 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 6,7 mm  Atterial inner jacket FRINC  Color (inner jacket) natur  Material wire insulation PE  Amount wires 4  Outer diameter rusulation 1,4 mm  Outer diameter rusulation 1,4 mm  Outer diameter folerance oore insulation 1 lead-free, CFC-free, halogen-free  Amount strands (wire) 7  Diameter of single wires 22 AWG  Conductor crosssection (wire) 22 AWG  Material wire, bare  Material conductor wire bare of single wires  Stranded copper wire, bare  Material conductor wire 5 stranded copper wire, bare	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable           wire arrangement         white, yellow, blue, orange           Cable identification         796           Jacket Color         green           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         85 %           Banding         Fleece, Foil           Filler         yes           Write arrangement         white, yellow, blue, orange           Cable weigth         69.3 g/m           Material jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         lead-free, camium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         2.5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         1.4 mm           Outer diameter insulation         1.5 mm           Outer diameter insulation         1.5 mm	Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
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Cable identification         796           Jacket Color         green           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires around Core filler twisted           Cable shielding (type)         copper braid, finned           Cable shielding (coverage)         85 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         white, yellow, blue, orange           Cable weigth         69,3 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         89 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         6,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         FRNC           Color (inner jacket)         natur           Material wire insulation         PE           Amount wires         4           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         65 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, hal	·	white vellow blue grange
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Tolerance outer diameter (sheath)  ### 15 %  Material inner jacket FRNC  Color (inner jacket) natur  Material wire insulation PE  Amount wires 4  Outer diameter insulation 1,4 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 65 Shore D  Ingredient freeness wire insulation lead-free, CFC-free, halogen-free  Amount strands (wire) 7  Diameter of single wires 22 AWG  Material conductor wire Stranded copper wire, bare		•
Material inner jacket FRNC  Color (inner jacket) natur  Material wire insulation PE  Amount wires 4  Outer diameter insulation 1,4 mm  Outer diameter tolerance core insulation ±5 %  Shore hardness wire insulation 65 Shore D  Ingredient freeness wire insulation lead-free, CFC-free, halogen-free  Amount strands (wire) 7  Diameter of single wires 22 AWG  Conductor crosssection (wire) 22 AWG  Material conductor wire Stranded copper wire, bare	,	
Color (inner jacket)  Material wire insulation  PE  Amount wires  4  Outer diameter insulation  1,4 mm  Outer diameter tolerance core insulation  5 %  Shore hardness wire insulation  65 Shore D  Ingredient freeness wire insulation  lead-free, CFC-free, halogen-free  Amount strands (wire)  7  Diameter of single wires  22 AWG  Conductor crosssection (wire)  22 AWG  Material conductor wire  Stranded copper wire, bare		
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Nominal voitage AC Max. 300 V		
Current load capacity (standard) to DIN VDE 0298-4		
Current load capacity min. wire 4,8 A		· · · · · · · · · · · · · · · · · · ·
Characteristic impedance 100 Ω ± 15 % @ 100 MHz		
Electrical resistance line constant wire 55 Ω/km @ 20 °C		<del>-</del>
AC withstand voltage (wire - wire) 2 kV @ 60 s		
Electrical capacity line constant (wire - wire) 50000 pF/km	Electrical capacity line constant (wire - wire)	SUUUU PF/KM



Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	5000 MΩ × km
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	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)	12 x Outer diameter
No. of bending cycles (C-track)	3 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m