

## M12 male 0° / M12 female 0° D-cod. shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 2.5m

Product fulfills requirements according to UN/ECE R118 **Ethernet CAT5** Male straight - female straight M12 - M12, 4-pole D-coded

shielded

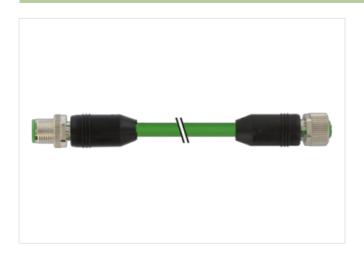
Further cable lengths on request.

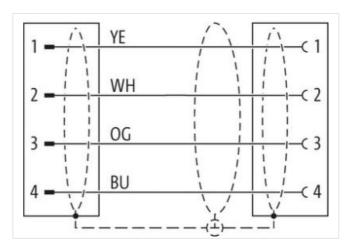
Plastic housings with good resistance against chemicals and oils.

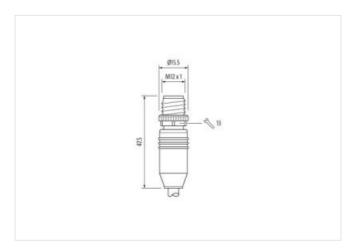
The resistance to aggressive media should be individually tested for your application. Further details on request.

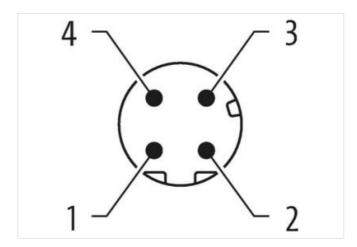
## **Link to Product**

## Illustration



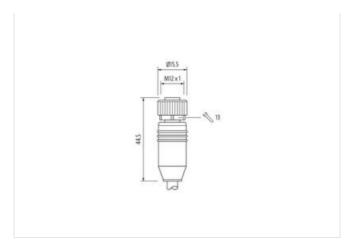


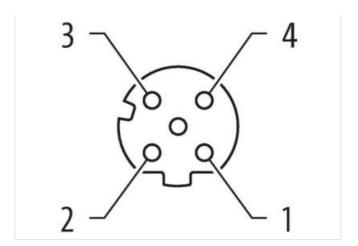






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Product may differ from Image



Cable length





2,5 m





Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	D
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
Cable outlet	straight
Coding	D
Material	PUR
No. of poles	4
Width across flats	SW13
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	4048879796095

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: 2024-05-09



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Electrical data   Supply         60 V           Operating vorting por contact max.         60 V           Control operating por contact max.         1.5 A           Industrial communication         Transfer parameters         CATS, Class D (ISCHEC 11801-2002), (EN 50173-1)           Data transmissor max max.         100 MBIts           Industrial communication   Ethernet tunctionality           Degree of protection   Electrical           Degree of protection   Electrical           Degree of protection (EN IEC 69529)         IPS6. IPS7, IPS6K           Position Degree of protection (EN IEC 69529)         IPS6. IPS7, IPS6K           Position Degree of protection (EN IEC 69529)         IPS6. IPS7, IPS6K           Modification at confliction protection degree         3           Falled supply evoltage         1,5 kV           Mechanical data         Without           Mechanical data (Marcial data         Vision Degree of protection (EN IEC 6964-1)         I           Mechanical data (Marcial data         Vision degree of protection (EN IEC 6964-1)         I           Mechanical data (Marcial data         Vision degree degree of protection (EN IEC 696529)         IVS6. INS. INS. INS. INS. INS. INS. INS. INS	Packaging unit	1
Operating voltage DC max.         1.5 A           Current operating per contact max.         1.5 A           Industrial commission         100 MBUS           Transfer parameters         CATS, Class D (ISO/IEC 11801-2002), (EN 50173-1)           Obita transmission rate max.         100 MBUS           Industrial commission         Full duplox           Device protection   Electrical         PSUPpages of protection (ISC IEC 00509-1)           Device protection (ISC IEC 00509-1)         IPSS, IPS7, IPS9K           Additional condition protection degree         Inserted, screwed           Pollution Diogree         3           Related surge voltage         1.5 kV           Melandrial group (ISC 00504-1)         I           Mechanical data         Websted           Control for corregated hose         without           Mechanical data   Material data         Vector           Conting tocking         Nickeled           Conting tocking         Nickeled           Conting tocking operation         Inserted, screwed, Shaking protection           Environmental harderistics   Climatic         Control           Opperating temperature max.         85 °C           Opperating temperature max.         85 °C           Note on shrain roleal         Protect the connectors by suitabl		
Current operating per contact mix.   1.5 A     Industrial communication		00.1/
Industrial communication         CAT5, Class D (ISO/IEC 11801-2002), (EN 50173-1)           Doal a transmission rate max.         100 MBHs           Industrial communication   Ethernet functional projection   Ethernet functional projectional projection   Ethernet functional projectional pr	· · · · · · · · · · · · · · · · · · ·	
Transfer parameters CATS, Class D (ISO/IEC 11801-2002), (EN 50178-1) Data transmission rate max. 100 MBigs  Indicutrial communication   Ethernet functional production   Full duplex  Device protection   Electrical  Degree of protection   Electrical  Pollution Degree   Inserted, screwed   Pollution Degree   Inserted   Inserted   Inserted   Pollution Degree   Inserted   Inserted   Inserted   Pollution Degree   Inserted   Inserted   Inserted   Inserted   Pollution Degree   Inserted   Inserted   Inserted   Inserted   Pollution Degree   Inserted   Inserted   Inserted   Inserted   Inserted   Pollution Degree   Inserted   Insert		1,5 A
Data transmission rate max. 100 MBMs industrial communication   Ethernet trunctionality outpiex Pull duplex Projection   Ethernet trunctionality outpiex   Full duplex Projection   Ethernet Proje	Industrial communication	
Pubmis   P	Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Device of protection   Electrical  Degree of protection (EN IEC 60529)	Data transmission rate max.	100 MBit/s
Degree of protection I Electrical Degree of protection (EN IEC 60529) Degree of protection (EN IEC 60529) Affational condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Maderial group (IEC 60664+1) I Mechanical data Controur for corrupated hose without Mechanical data (Maderial data) Coating backing Nickelad Locking material Locking material Locking material Locking material Mechanical data (Mounting data Muouning method inserted, screwed, Shaking protection Environmental characteristics   Climatic Operating temperature max. 85 °C Controuring Important installation notes  Note on banding radius Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on banding radius  Affection: Conserve the permissable 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 Cable shelding (coverage) Banding Affection Size of Conformity Product standard Views around Core fillior twisted Cable indefining (type) Cable indefining (typ	Industrial communication   Ethernet fun	ectionality
Degree of protection (EN IEC 60529)         IP65, IP67, IP66K           Additional condition protection degree         Inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Contour for corrugated hose         without           Mechanical data   Material data         Conting looking         Nickeled           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Control         25 °C           Operating temperature min.         -25 °C         Control protection 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 refief         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g., by the usag	duplex	Full duplex
Additional condition protection degree insorted, screwed  Pollution Degree 3  Raded surge voltage 1,5 kV  Material group (EC 60664-1) 1  Mechanical data  Controur for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled Locking material 2 Inc die casting  Mechanical data   Material data  Coating locking Nickeled Locking material Insurance of the casting Insurance	Device protection   Electrical	
Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60684-1) I Mechanical data Contour for corrugated hose without Mechanical data   Material data Coating backing   Nickeled   Locking material   Zinc die-casting   Mechanical data   Mounting data Mounting method   Inserted, screwed, Shaking protection   Environmental characteristics   Climatic Privionmental Characteristics   Climatic Privio	Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Contour for corrupated hose without  Machanical data   Material data  Contour for corrupated hose without  Machanical data   Material data  Coating looking Nickeled  Locking material Zinc die casting  Mechanical data   Munting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25 °C  Operating temperature man. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  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  Cable identification   798  Jacket Color green  Jacket Color green green  Jacket Color green g	Additional condition protection degree	inserted, screwed
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Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  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.  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  Cable identification 796  Jacket Color green  Type of Certificate cluRus  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  wire arrangement white, yellow, blue, orange  Travel speed (C-track) 3 Mio. @ 25 °C  Cable well the service of the	-	
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Material jacket PUR Shore hardness jacket 89 Shore A	Cable weigth	-
Shore hardness jacket 89 Shore A	Travel speed (C-track)	3,3 m/s @ 25 °C
	Material jacket	PUR
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Shore hardness jacket	
	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free



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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 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
Loop resistance	5000 MΩ × km
Nominal voltage 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
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	50000 pF/km
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
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 torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m