

## M12 male 90° D-cod. with cable shielded

PVC 1x4xAWG22 shielded gn 3.0m

**Ethernet CAT5** Male 90° M12, 4-pole D-coded shielded

Transmission properties with channel transmission up to 100 m

Further cable lengths on request.

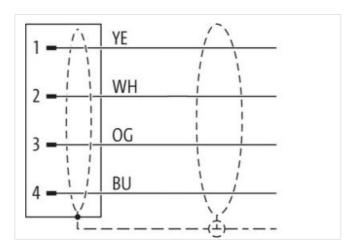
Plastic housings with good resistance against chemicals and oils.

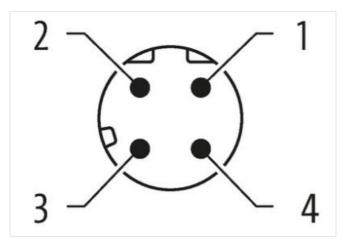
The resistance to aggressive media should be individually tested for your application. Further details on request.

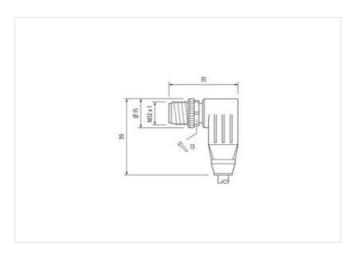
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

3 m



stay connected

	Side 1	
Section   Miscontent   Miscon	Tightening torque	0,6 Nm
Treaded   M12 x 1   Debting   D   Debting   De	Mounting method	inserted, screwed
December	Family construction form	M12
Adams   Pur   Pur	Thread	M12 x 1
Notin across field	Coding	
Personal Procession (EN IEC 60529)	Material	
Side 2           Commercial data         Commercial data           CLASS-6.0         27061801           CLASS-6.1         27063907           CLASS-8.0         27063907           CLASS-9.0         27063907           CLASS-9.0         27063907           CLASS-11.1         27063907           CLASS-12.0         27063907           CLASS-12.0         27063907           CLASS-12.0         27063907           STIMS-0         E0002599           ustoms tariff number         85444290           STIMS-0         E0002599           ustoms tariff number         85444290           STIMS-0         E0002599           ustoms tariff number         85444290           STIMS-0         E0002599           Ustomation tariff number         85444290           STIMS-0         E0002599           Ustomation tariff number         15.A           Industrial communication         10.D           Industrial communication         10.D           Industrial communication         10.D           Industrial communication         Ethernet functional taring ta	Width across flats	
Stripping length (lacked)   20 mm	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data           CLASS 6.0         27061801           CLASS 7.0         27060307           CLASS 8.0         27060307           CLASS 8.0         27060307           CLASS 9.0         27060307           CLASS 9.0         27060307           CLASS 9.1.1         27060307           CLASS 9.1.1         27060307           CLASS 9.0         27060307           CLASS 10.0         27060307           CLASS 11.1         27060307           CLASS 12.0         27060307           CLASS 12.0         27060307           CHAST 10.0         EC002599           Use start in number         85444290           20 TIM 5.0         60 V           Current operating par contact max         1,5 A           Industrial communication         1,5 A           Industrial communication         1,5 A           Industrial communication   Ethernet functionality         1           United at ransmission rate max.         100 MBit/s           Industrial communication   Ethernet functionality         1           United State (Laborational)         1           Stripping length (lackol)         20 mm           Journing set         M12 x 1	Side 2	
CLASS 6.0   27061801   CLASS 6.1   27060307   CLASS 8.0   27060307   CLASS 8.1.1   27060307   CLASS 8.1.1   27060307   CLASS 8.1.2   27060307   CLASS 8.1.0	Stripping length (jacket)	20 mm
ECLASS-6.1 27060307  ECLASS-7.0 27060307  ECLASS-9.0 27060307  ECLASS-9.0 27060307  ECLASS-9.0 27060307  ECLASS-10.1 27060307  ECLASS-11.1 27060307  ECLASS-11.1 27060307  ECLASS-12.0 27060307  ETIM-5.0 EC002599  Usustons tariff number 85444290  ETIM-5.0 EC002599  Usustons tariff number 1  EElectrical data   Supply  Deparating voltage DC max. 60 V  Deparating voltage DC max. 60 V  Deparating voltage DC max. 1,5 A  Industrial communication  Transfer parameters CAT5, Class D (ISC/IEC 11801:2002), (EN 50173-1)  Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Ruplex Full duplex  Industrial communication   Ethernet functionality  Ruplex Event Service of the service	Commercial data	
CLASS-7.0   27060307   CLASS-8.0   27060307   CLASS-8.0   27060307   CLASS-9.0   27060307   CLASS-10.1   27060307   CLASS-11.1   27060307   CLASS-12.0   2700307   CLASS-12.0   2700307   CLASS-12.0   2700307   CLASS-12.0   CLA	ECLASS-6.0	27061801
CLASS-8.0   27060307	ECLASS-6.1	27060307
CLASS-9.0   27060307	ECLASS-7.0	27060307
CLASS-10.1   27060307   27060307   CLASS-12.0   CLASS-	ECLASS-8.0	27060307
CCLASS-1.1.1   27060307   27060	ECLASS-9.0	27060307
### ### ### ### ### ### ### ### ### ##	ECLASS-10.1	27060307
ETIM-5.0 EC002599  ustoms tariff number 85444290  ATIN 406590904679  Arackaging unit 1  Electrical data   Supply  Operating voltage DC max. 60 V  Durrent operating per contact max. 1,5 A  Industrial communication  Transfer parameters CAT5, Class D (ISO/IEC 11801.2002), (EN 50173-1)  Value ta vansmission rate max. 100 MBit/s  Undustrial communication   Ethernet functionality  Unplex Full duplex  Industrial communication   Ethernet functionality  Unplex Full duplex  Industrial communication   Ethernet functionality  Unplex Pull duplex  Industrial communication   Ethernet functionality  Unplex Full duplex  Industrial communication   Ethernet functionality  Unplex Pull duplex  Industrial communication   Ethernet functionality  Industrial communication   Ethernet function	ECLASS-11.1	
automs tariff number         85444290           BTIN         406590904679           Packaging unit         1           Electrical data   Supply           Dorrating voltage DC max.         60 V           Dorrating per contact max.         1,5 A           Industrial communication           Industrial communication   Ethernet functionality           Industrial Connection           Industrial Connection           Industrial Connection           Industrial Connection           Installation   Connection <td< td=""><td>ECLASS-12.0</td><td></td></td<>	ECLASS-12.0	
	ETIM-5.0	
Packaging unit 1  Electrical data   Supply  Derating voltage DC max. 60 V  Derating voltage DC max. 1,5 A  Industrial communication  Fransfer parameters CAT5, Class D (ISO/IEC 11801.2002), (EN 50173-1)  Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Industrial communicationality  Industrial communication   Ethernet functionality  Industrial communicationality  Industrial communication   Ethernet functionality  Industrial communicationality  Industrial communication   Ethernet functionality  Industrial communication	customs tariff number	
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Operating voltage DC 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 functionality  Industrial communication   Ethernet funct	Packaging unit	1
Industrial communication  Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Iuplex Full duplex  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Voiditional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Alaterial group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled   Dickel plated  Locking material Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Electrical data   Supply	
Industrial communication  Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Iuppex Full duplex  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Violution Degree 3  Asted surge voltage 1,5 kV  Material group (IEC 60664-1) 1  Impure Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Contour for fitting nickel plated  Coding of fitting nickel plated  Locking material	Operating voltage DC max.	60 V
Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Iuplex Full duplex  Installation   Connection  Stripping length (jacket) 20 mm  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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material  Locking material  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Current operating per contact max.	1,5 A
Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Iuplex Full duplex  Installation   Connection  Stripping length (jacket) 20 mm  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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material  Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Industrial communication	
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Installation   Connection  Stripping length (jacket) 20 mm  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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Industrial communication   Ethernet fur	nctionality
Installation   Connection  Stripping length (jacket) 20 mm  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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	dunlex	Full duplex
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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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled Coating of fitting nickel plated Coating material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection		
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Asterd surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Coating material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Additional condition protection degree	
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Mechanical data   Material data  Coating locking  Nickeled  Coating of fitting  nickel plated  Cocking material  Atterial screw connection  Mechanical data   Mounting data  Mounting method  without  without  Nickeled  Nickeled  Nickeled  Zinc die-casting  Atterial screw connection  Zinc die-casting  Mechanical data   Mounting data  Mounting method  inserted, screwed, Shaking protection		I
Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Mechanical data	
Coating locking  Nickeled  Coating of fitting  nickel plated  Cocking material  Zinc die-casting  Material screw connection  Zinc die-casting  Mechanical data   Mounting data  Mounting method  inserted, screwed, Shaking protection	Contour for corrugated hose	without
Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Mechanical data   Material data	
Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Coating locking	Nickeled
Aderial screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Coating of fitting	
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Locking material	· · · · · · · · · · · · · · · · · · ·
Mounting method inserted, screwed, Shaking protection	Material screw connection	· · · · · · · · · · · · · · · · · · ·
Mounting method inserted, screwed, Shaking protection	Mechanical data   Mounting data	
		inserted screwed Shaking protection
Environmental characteristics   Climatic		
	Environmental characteristics   Climation	



stay connected

Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
lote on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
lote 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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	800
lacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Filler star-shaped twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Foil
Filler	yes
vire arrangement	yellow, blue, orange, white
Cable weigth	73,7 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
reedom from ingredients (jacket)	lead-free, CFC-free
Outer-diameter (jacket)	6,6 mm
Folerance outer diameter (sheath)	± 5 %
Material inner jacket	FRNC
Color (inner jacket)	natur
Material wire insulation	PE
Amount wires	4
Outer diameter insulation	1,53 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	55 ± 5 Shore D
ngredient 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
raversing distance (C-track)	5 m @ 25 °C
Iominal 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 % @ 1 MHz
Electrical resistance line constant wire	55 Ω/km @ 20 °C
C withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	50000 pF/km
Power frequency withstand voltage (wire - acket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Ain. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-10 °C
Operating temperature max. (dynamic)	70 °C



Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
Travel speed (C-track)	2 Mio. @ 25 °C