

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

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 3m

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

Transmission properties with channel transmission up to 100 m

Further cable lengths on request.

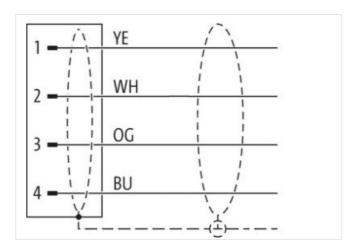
Plastic housings with good resistance against chemicals and oils.

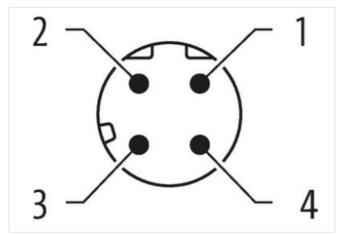
The resistance to aggressive media should be individually tested for your application. Further details on request.

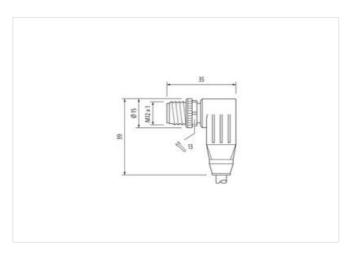
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

3 m



stay connected

Wounting method         inserted, screwed           Family construction form         M12           Times         M12 × 1           Doding         D           Waterial         PUR           Width across flats         SW13           Suppre of protection (EN IEC 60529)         1965, IP66K, IP67           Stripping length (jacket)         20 mm           Commercial data           ELASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-1.1         27060307           ECLASS-1.2         27060307           ECLASS-1.1         27060307           ECLASS-1.2         27060307           ECLASS-1.3         27060307           ECLASS-1.1         27060307           ECLASS-1.1         27060307           ECLASS-1.1         27060307           ECLASS-1.2         27000307           ECLASS-1.3         ECOCYSS           Sustions fariff number         8544220           Packaging unit         1           Electrical datas [Supply           Packaging unit         1           Electrical parameters	Side 1	
Family considuration from         M12 x 1           Decing         D           Coting         PUR           Width across stats         SW13           Degree of protection (EN IEC 60529)         IP65, IP96K, IP67           Side 2         Winding along the protection (EN IEC 60529)           Power of protection (EN IEC 60529)         20 mm           Commercial data         Winding along the protection (EN IEC 60529)           ECLASS 6.0         27061801           ECLASS 8.0         27061801           ECLASS 8.0         27061807           ECLASS 8.0         27060307           ECLASS 8.0         27060307           ECLASS 8.0         27060307           ECLASS 8.10.1         27060307           ECLASS 8.10.2         27060307           ECLASS 8.10.3         27060307           ECLASS 8.10.4         27060307           ECLASS 8.10.5         EV0025589           ECLASS 8.10.6         EV0025589           ECLASS 8.10.7         EV0025589           ECLASS 8.10.8         EV0025589           ECLASS 8.10.9         EV0025589           EVIDERAL PROVINCE AND ALONG ALON	Tightening torque	0,6 Nm
Part	Mounting method	inserted, screwed
Decision	Family construction form	M12
Minith across flates	Thread	M12 x 1
With across flats	Coding	
Pegre of protection (EN IEC 80529)	Material	
Side 2           Commercial data         Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27000007           ECLASS-12.0         1.5 A		
Commercial data	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data           CLASS-6.0         27061801           CCLASS-7.0         27060307           CCLASS-8.0         27060307           CCLASS-8.0         27060307           CCLASS-10.1         27060307           CCLASS-11.1         27060307           CCLASS-11.1         27060307           CCLASS-11.1         27060307           CCLASS-11.1         27060307           CCLASS-12.0         27060307           CTM 5.0         EC002599           CTM 5.0         EC002599           CTM 5.0         404887960482           Packaging unit         1           Electrical data I Supply         Current operating per contact max.           Current operating per contact max.         1,5 A           Industrial communication         Current operating per contact max.           Industrial communication   Element functionality         University           Upulpex         Full duplex           Industrial communication   Element functionality         University           Upulpex         M12 x 1           Device protection   Electrical           Additional condition protection degree         3           Collision Degree         3           Rated say on yelloge	Side 2	
ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           Bustoms tariff number         85444290           STIN         4048879800482           Packaging unit         1           Electrical datal Suppty           Deparating voltage DC max.         60 V           Durrent operating per contact max.         1.5 A           Industrial communication         Industrial communication           Undustrial communication   Ethernet functionality         Industrial communication   Ethernet functionality           Undustrial communication   Ethernet functionality         Industrial communication   Ethernet functionality           Bripping length (jacket)         20 mm           Motoritig set         M12 x 1           Device protection   Etertrical           Salated surge voltage         1,5 kV           Material group (IEC 60684+1)         1           Mechanical data   Material data         2 inc die-casting	Stripping length (jacket)	20 mm
ECLASS-6.1 2706307  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-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-13.1 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 ECOUCS99  Usubions tairff number 3544290  STIM 4048879860482  Packaging unit 1  Electrical data   Supply  Deparating voltage DC max. 60 V  Current operating per contact max. 1,5 A  Industrial communication  Transfer parameters CATS, Class D (ISO/IEC 11801-2002), (EN 50173-1)  Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  duplex Full duplex  Industrial communication   Ethernet functionality  duplex Full duplex  Industrial communication   Ethernet functionality  duplex Market   Market   Market    Education   Market   Market   Market    Education   Market   Market    Education   Market   Market    Industrial communication   Ethernet functionality  duplex function   Market    Education   Market   Market    Industrial communication   Ethernet functionality  duplex function   Market    Industrial communication   Ethernet functionality  duplex function   Market    Industrial communication   Ethernet functionality  duplex function   Mickeled    Control for corrugated flose    Education   Mickeled    Control for corrugated flose    Educa	Commercial data	
ECLASS 7.0         27060307           ECLASS 8.0         27060307           ECLASS 9.0         27060307           ECLASS 10.1         27060307           ECLASS 11.1         27060307           ECLASS 11.1         27060307           ETIM-5.0         EC002599           usustoms tariff number         85444290           3TIN         404887860482           Packaging unit         1           Electrical data   Supply           Packaging per contact max         1,5 A           Industrial communication         1,5 A           Industrial communication         100 MBNs           Transfer parameters         CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)           20ata transmission rate max.         100 MBNs           Industrial communication   Element functionality           Upupex         Full duplex           Industrial communication   Element functionality           Upupex         Full duplex           Installation   Connection           Ströping length (jacket)         20 mm           Moduring set         MIX 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3     <	ECLASS-6.0	27061801
ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.2         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           Dissistant furniber         85444290           STIM         4048879860482           Packaging unit         1           Electrical data   Supply           Operating voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial communication         CAT5, Class D (ISO/IEC 11801-2002), (EN 50173-1)           Data transmission rate max.         100 MBit/s           Industrial communication   Ethernet functionality         Full duplex           Installation   Connection         Full duplex           Installation   Connection         Full duplex           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         3           Palade surge voltage         1,5 kV           Meterial group (IEC 60664-1)         1           Mochanical data   Material data         Mickeled           Contion fro corrugated hose         without           Mochani	ECLASS-6.1	27060307
ECLASS 9.0         27060307           ECLASS 9.0.1         27060307           ECLASS 1.1         27060307           ECLASS 1.2.0         27060307           ETIM-5.0         EC002599           Dustoms tartif number         85444290           3TIN         404887980482           Packaging unit         1           Electrical data   Supply           Deparating voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial communication           Transfer parameters         CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)           Deat transmission rate max.         100 MB/ts           Industrial communication   Ethernet functionality           dusplex           Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Dogree         3           Asteed surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data	ECLASS-7.0	27060307
ECLASS-10.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC002599           sustoms tariff number         85444200           3TIN         4048879800482           ***ackaging unit         1           Electrical data   Supply           **Derrent operating per contact max.         60 V           **Derrent operating per contact max.         1,5 A           **Industrial communication           **Industrial communication           **Industrial communication   Ethernet functionality           **Judge (September of Contraction (September of Contra	ECLASS-8.0	27060307
ECLASS-1.1.1         27060307           ECLASS-12.0         27060307           ETIMI-5.0         EC002599           bustoms tariff number         85444290           3TIN         4048873860482           Packaging unit         1           Electrical data   Supply         University or surger product max.           Ourent operating per contact max.         15 A           Industrial communication         Transfer parameters           CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)           Data transmission rate max.         100 MBibs           Industrial communication   Ethernet functionality           Upuplex         Full duplex           Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         3           Balad surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Control for corrugated hose         without           Mechanical data   Material data         Vickeled           Coating fitting         nickel plated           Cocking material         Zinc die-casting           Muturing method         inserte	ECLASS-9.0	27060307
ECLASS-12.0         27060307           ETIM-5.0         EC002599           bustoms tariff number         85444290           2TIN         4048879860482           Packaging unit         1           Electrical data   Suppty           Operating voltage DC max.         60 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 tunctional industrial communication   Ethernet functional industrial communication   Ethernet functional industrial communication   Ethernet functional industrial communication   Ethernet functional industrial condition protection   Electrical industrial condition protection   40 mg/mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	ECLASS-10.1	27060307
ETIM-5.0 EC002599  20stors tariff number 85444290  3TIN 4048879860482  Packaging unit 1  Electrical data   Supply  Deparating voltage DC max. 60 V  20crent operating per contact max. 1,5 A  Industrial communication  Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  20ata transmission rate max. 100 MBt/s  Undustrial communication   Ethernet functivality  duplex Full duplex  Industrial communication   Ethernet functivality  duplex Full duplex  Industrial communication   Ethernet functivality  duplex Projection    Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Validional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage inserted, screwed  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Mounting data  Mounting method in inserted, screwed, Shaking protection	ECLASS-11.1	27060307
customs tariff number         85444290           CTIN         4048879860482           Packaging unit         1           Electrical data   Supply           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 functionality           Industrial Connection           Industrial Connecti	ECLASS-12.0	27060307
Add	ETIM-5.0	EC002599
Packaging unit 1  Electrical data   Supply  Deparating vollage DC max. 60 V  Deparating vollage 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  Undustrial communication   Ethernet functionality  Undustrial com	customs tariff number	
Electrical data   Supply  Operating voltage DC max. 60 V  Current operating per contact max. 1,5 A  Industrial communication  Fransfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Joala transmission rate max. 100 MBit/s  Industrial communication   Ethernet functivality  Juliplex 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 Installation   Concurrent of the surfer of		
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 MBil/s  Industrial communication   Ethernet functionality  duplex 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)    Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking material Zinc die-casting  Material screw connection   Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Packaging unit	1
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 functionality  duplex 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 locking naterial Zinc die-casting  Material screw connection Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Electrical data   Supply	
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  duplex 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) 1  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data   Material data  Conting in fitting nickel plated  Locking material Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Operating voltage DC max.	60 V
Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  duplex 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 cornection   Zinc die-casting  Methanical 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  duplex 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 screw connection inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Industrial communication	
Data transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  duplex 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 screw connection inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
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 corrugated without  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Munuting method inserted, screwed, Shaking protection	Data transmission rate max.	
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 corrugated without  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Munuting 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) 1  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Locking material zerw connection Zinc die-casting  Methanical data   Mounting data  Munuting method inserted, screwed, Shaking protection	·	
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 screw connection inserted, screwed, Shaking protection  Mechanical data   Mounting data  Munting method inserted, screwed, Shaking protection	•	Full duplex
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  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection		
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  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	11 0 0 0 7	
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 Zinc die-casting Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Mounting set	M12 x 1
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 Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Device protection   Electrical	
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 Cocking material Zinc die-casting Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)  Mechanical data Contour for corrugated hose without  Mechanical data   Material 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	Pollution Degree	3
Mechanical data Contour for corrugated hose without  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	Rated surge voltage	1,5 kV
Contour for corrugated hose without  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	Material group (IEC 60664-1)	1
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 Locking 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 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   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		Nickeled
Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection		
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection		·
Mechanical data   Mounting data  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   Climatic	



stay connected

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.
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	659
Jacket Color	
Type of Certificate	green 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
vire arrangement	white, yellow, blue, orange
Fraversing distance (C-track)	5 m
Cable weigth	89,1 g/m
Material jacket	PUR
Shore hardness jacket	90 ± Shore A
reedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	7,4 mm
olerance outer diameter (sheath)	±5%
Material inner jacket	TPE-V
Color (inner jacket)	white
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
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
oop resistance	5000 MΩ × km
Nominal voltage AC max.	60 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Characteristic impedance	100 Ω ± 15 %
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 - acket)	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	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 (fixed)	5 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter
Travel speed (C-track)	2 Mio.