

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

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

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

Transmission properties with channel transmission up to 100 m

Further cable lengths on request.

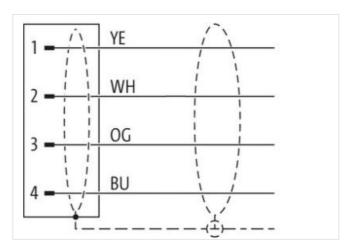
Plastic housings with good resistance against chemicals and oils.

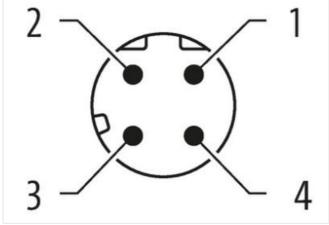
The resistance to aggressive media should be individually tested for your application. Further details on request.

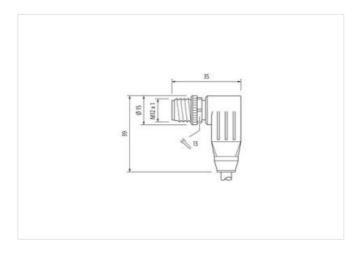
## **Link to Product**

## Illustration









Product may differ from Image











Cable length



stay connected

	Side 1	
Part	Tightening torque	0,6 Nm
Price   Pri	Mounting method	inserted, screwed
Description	Family construction form	M12
Adaminal PUR Width across files SW13  SURPagere of protection (EN IEC 60529)  SIRe 2  Stripping length (ticket) 20 mm  COMMENCE 41  SCLASS 6.0 27061801  CCLASS 6.1 27063907  CCLASS 6.1 27063907  CCLASS 7.0 27063907  CCL	Thread	M12 x 1
Width across flats         SW13           Segree of protection (EN IEC 60529)         IPS6, IPS6K, IPS7           Site 2         Protection (EN IEC 60529)         IPS6, IPS6K, IPS7           Site 2         Stripping longth (jacket)         20 mm           Commercial data           SCLASS-6.1         27068097           SCLASS-6.1         27068097           SCLASS-8.0         27068097           SCLASS-10.1         27068097           SCLASS-11.1         27068097           SCLASS-12.0         27068097 <th< td=""><td>Coding</td><td></td></th<>	Coding	
Degree of protection (EN IEC 60528)         IP65, IP68K, IP67           Side 2         Signify (apcht) (acket)         20 mm           Commercial data           CCLASS 6.0         27061801           CCLASS 7.0         27060307           CCLASS 7.0         27060307           CCLASS 7.0         27060307           CCLASS 7.0         27060307           CCLASS 1.1         27060307           CCLASS 1.1.1         27060307           CCLASS 1.1.1         27060307           CCLASS 1.1.1         27060307           ETIMS 0.         EC002599           Usuations staff number         8544290           3TIN         4048079311373           2eckaging unit         1           Electrical data   Supply           Operating voltage DC max.         60 V           Jurrent operating per contact max.         1.5 A           Industrial communication         1           Transfer parameters         CATS, Class D ((80*IEC 11801 2002), (EN 50173-1)           Data transmission rate max.         100 MB//s           Industrial communication   Ethernet trunctional transmission rate max.         100 MB//s           Industrial communication   Federical         20 mm <td< td=""><td>Material</td><td></td></td<>	Material	
Side 2           Commercial data         Commercial data           CCASS 8-0         27061801           CCASS 8-1         27060307           CCLASS 8-0         27060307           CCLASS 9.0         27060307           CCLASS 9.0         27060307           CCLASS 1.1.1         27060307           CCLASS 1.1.1         27060307           CCLASS 1.1.1         27060307           CCLASS 1.1.1         27060307           CCLASS 1.2.0         27060307           CCLASS 1.1.1         27		
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-10.1         27060307           CLASS-11.1         27060307           CLASS-11.1         27060307           CLASS-11.1         27060307           CLASS-12.0         27060307           ETIM-5.0         EC002599           STIN         404897311373           Packaging unit         1           Electrical data   Supply           Durrent operating per contact max.         1,5 A           Industrial communication         For Assard (Assard (A	Side 2	
CLASS-6.0   27061801   27060307   CLASS-8.0   27060307   CCLASS-9.0   27060307   CCLASS-9.0   27060307   CCLASS-9.0   27060307   CCLASS-9.0   27060307   CCLASS-9.0   27060307   CCLASS-10.1   27060307   CCLASS-11.1   27060307   CCLASS-11.1   27060307   CCLASS-12.0   270	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  ECLASS-12.0 27060307  ECLASS-13.0 ECO02599  usustoms tariff number 85444290  STIN 4048879311373  Tarakaging unit 1  Electrical data   Supply  Deparating voltage DC max. 60 V  Deparating voltage DC max. 60 V  Deparating voltage DC max. 1.5 A  Industrial communication  Irransfer parameters CAT5, Class D (ISC/IEC 118012002), (EN 50173-1)  Data transmission rate max. 100 MBits  Industrial communication   Ethernet functionality  Authority of the protection   Ethernet functionality  Deparating voltage DC max. 100 MBits  Industrial Communication   Ethernet functionality  Authority of the protection   Ethernet functionality  Deparating voltage   M12 x 1  Device protection   Electrical  Volution Degree 3  Satisfactional condition protection degree inserted, screwed  Follution Degree 3  Satisfacting voltage   1,5 kV  Material group (IEC 606641)   I  Mechanical data  Mechanical data   Material data  Conting of filting nickel plated  Cocking of filting in screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	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   27080307   CLASS-12.0   27080307   CLASS-12.0   27080307   CLASS-12.0   27080307   CLASS-12.0   27080307   CLASS-12.0   CLASS-12.0   27080307   CLASS-12.0   CLASS-	ECLASS-6.0	27061801
CLASS-8.0   27060307   270603007   2706030	ECLASS-6.1	27060307
CLASS-9.0   27060307	ECLASS-7.0	27060307
ECLASS-10.1 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ETIM-5.0 EC002599  usuloms tariff number 85444290 STIN 4048879311373 Packaging unit 1  Electrical data   Supply  Deparating voltage DC max. 60 V  Jurrent operating per contact max. 1,5 A  Industrial communication  Irransfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) Data transmission rate max. 100 MBil/s  Industrial communication   Ethernet functionality  Upulpex Full duplex  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Volution pergee inserted, screwed  Pollution Degree 3  Salated surge voltage 1,5 kV  Alaterial group (IEC 60664-1) 1  Mechanical data   Material data  Contour for corrugated hose without be declared attained attaine	ECLASS-8.0	27060307
ECLASS-1.1.1         27060307           ECLASS-12.0         27060307           ETIMS-5.0         EC002599           sustoms tarff number         85444290           3TIN         4048879311373           Packaging 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)           Data transmission rate max.         100 MBil/s           Industrial communication   Ethernet functionality           Upuplex         Full duplex           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Call cols	ECLASS-9.0	27060307
### ### ### ### ### ### ### ### ### ##	ECLASS-10.1	27060307
ETIM-5.0 EC002599  usloms tariff number 85444290  ATIN 404879311373  Packaging unit 1  Electrical data   Supply  Deparating voltage DC max. 60 V  Deparating voltage DC max. 1,5 A  Industrial communication  Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Pata transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Unique May 100 MBit/s  Unique May 100 MBit/s  Industrial group (IEC 60664-1)	ECLASS-11.1	27060307
automs tariff number         85444290           DaTIN         4048879311373           Packaging unit         1           Electrical data   Supply           Dorrating voltage DC max.         60 V           Dorrating 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 communication   Ethernet functionality           Industrial communication   Ethernet functionality           Industrial communication   Ethernet functionality           Industrial Connection           Industrial Connection           Industrial Connection           Industrial Connection           Industrial Connection           Installation   Connection	ECLASS-12.0	
Act	ETIM-5.0	
Packaging unit 1  Electrical data   Supply  Deparating voltage DC max. 60 V  Deparating 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  Buplex Full duplex  Industrial communication   Ethernet functionality  Buplex Full duplex  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Depre 3  Palated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Donotor for corrugated hose without  Mechanical data   Material data  Docating locking Nickeled  Docating of fitting nickel plated  Jinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	customs tariff number	
Electrical data   Supply  Operating voltage DC max. 60 V  Ourrent operating per contact max. 1,5 A  Industrial communication  Fransfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Outat transmission rate max. 100 MBit/s  Industrial communication   Ethernet functionality  Upplex 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  Alterda surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating of lifting nickel plated  Joaching locking Nickeled  Joaching locking Nickeled  Joaching affiting nickel plated  Joaching affiting nickel plated  Joaching locking Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection		
Deperating 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  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  Alaterial group (IEC 60664-1) 1  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking material 2 inc die-casting  Material screw connection 2 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  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Mechanical 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 Industrial co	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  Juplex 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  Bated 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  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 corrugated without  Mechanical data   Mounting data  Mounting method 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 corrugated without  Mechanical data   Mounting data  Mounting method 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  Jocking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Data transmission rate max.	100 MBit/s
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  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	Industrial communication   Ethernet fur	ectionality
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  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection	dunlex	Full duplex
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  Coating material screw connection Zinc die-casting  Mechanical data   Mounting data   Mounting data   Mounting method inserted, screwed, Shaking protection		T dir daplox
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		
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  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		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 Coating material Zinc die-casting Material screw connection Zinc die-casting  Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection	Device protection   Electrical	
Acted 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	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 Coating material Zinc die-casting Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection		
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		1,5 kV
Mechanical data   Material data  Coating locking  Nickeled  Coating of fitting  nickel plated  Locking material  Atterial screw connection  Mechanical data   Mounting data  Mounting method  without  without  without  without  without  without  Nickeled  Nickeled  Zinc die-casting  Zinc die-casting  without  nickel plated  Zinc die-casting  without  nickel plated  Zinc die-casting  Mechanical data   Mounting data		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
Locking material Zinc die-casting  Material 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   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	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
wire 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, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6.7 mm
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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
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 Mio. @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
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
Loop resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
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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: 2024-05-18



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