

## M12 female 90° A-cod. with cable

PUR 5x0.75 bk UL/CSA+drag ch. 15m

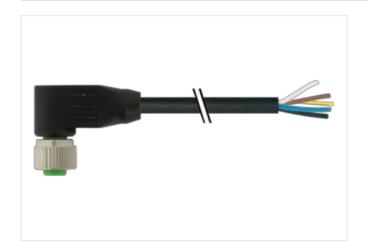
Female 90° M12, 5-pole with cable sleeves

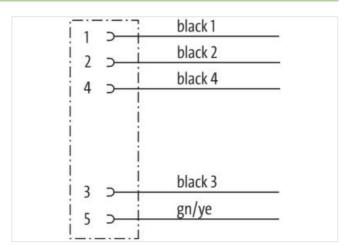
Plastic housings with good resistance against chemicals and oils.

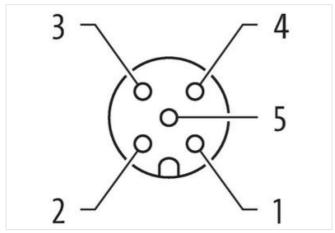
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

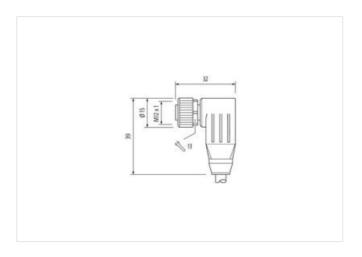
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

15 m

Side 1

Tightening torque 0,6 Nm



stay connected

Treest	Mounting method	inserted, screwed
Coding         A           No. of poles         5           With across fats         SW13           Degree of protection (EN IEC 60529)         IPS, FREK, IP67           Stripping length (jacket)         20 mm           Commonical data           ECLASS-8.0         27792/18           ECLASS-7.0         27792/18           ECLASS-8.0         27792/18           ECLASS-9.1         27060311           ECLASS-9.2         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         E001855           ECLASS-12.0         E001855           ECLASS-10.1         4048879551900           FEM-6.0         E001855           ECLASS-10.2         27060311           ECLASS-10.3         E001855           COTIN         4048879551900           FEM-6.0         E001855           COTIN         4048879551900           Coperating voltage AC max.         125 V           Operating voltage AC max.         125 V           Deparating voltage AC max.         125 V           Protection departs         4 A           Installation IC comection	Family construction form	M12
No. of poles S	Thread	M12 x 1
Width across flats         SWI3           Degree of protection (RN IEC 60529)         IPS6, IP66K, IP67           Side 2         Stripping tength (ackati)         20 mm           Commercial data           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.0         27060311           ECLASS-12.0         2707060311           Electrical data Security <th< td=""><td>Coding</td><td>A</td></th<>	Coding	A
Pesc	No. of poles	5
Side 2           Stropping length (jacket)         20 mm           Commercial data         ************************************	Width across flats	SW13
Stripping length (jacker)         20 mm           Commercial data           ECLASS-6.0         27279219           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           Countoms striff number         85444230           GTIN         404877951960           Packaging unit         1           Electrical data [ Supply         Percentage AC max.         125 V           Operating voltage DC max.         125 V           Operating voltage DC max.         125 V           Current operating per contact max.         4 A           Table of the Control (Posterion)         20 mm           Device protection [ Electrical Additional condition protection degree         3           Rated surge voltage         1,5 kV           Material proup (EC6 6666-1)         1           Mechanical data [ Material data         Mornal (EC 6666-1)         1           Mechanical data [ Material data         20 °C         C           Coating tooking         Nickeled         C	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ELECASAS-12.0         270702           EVELLIA TALL         25 V           Correct pockeration [Secondary Coloration [Secondary C	Side 2	
ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27060311 ECLASS-8.0.1 27060311 ECLASS-8.0.1 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 1200311 ECLASS-13.0 1200311 ECLASS-13.0 1200311 ECLASS-14.0 1200311 ECLASS-15.0 1200311 ECLASS-15.0 1200311 ECLASS-16.1 1200311 ECLASS-17.0 1200311 ECLASS-18.0 1200311 ECLASS-19.0 1200311	Stripping length (jacket)	20 mm
ECI.ASS-7.0         27279218           ECI.ASS-8.0         27789218           ECI.ASS-9.0         27000311           ECI.ASS-10.1         27000311           ECI.ASS-11.1         27000311           ECI.ASS-12.0         27000311           ETIM-5.0         EC001855           customs tarff number         85444280           GTIN         404887951960           Packaging unit         1           Electrical data   Suply           Operating voitage AC max.         125 V           Operating voitage AC max.         125 V           Operating voitage AC max.         125 V           Operating voitage DC max.         125 V           Current operating per contact max.         4 A           Installation   Connection         Installation   Connection           Stripping length (facket)         20 mm           Device protection   Electrical         Additional condition protection degree           Pollution Degree         3           Rade surge voitage         1,5 kV           Material group (IEC 69664-1)         1           Mechanical data   Material data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Pinc de-casting           Mounting	Commercial data	
ECLASS-8.0 2779218  ECLASS-9.0 277060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 277060311  ECLASS-10.0 EC001855  customs tariff number 8544290  GTIN 4048879551960  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 125 V  Operating voltage DC max. 125 V  Installation   Connection  Stripping length (jacket) 20 mm  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Raided suge voltage 1,5 kV  Material group (IEC 80664-1)  Mechanical data   Material data  Coating locking Nickeled  Material plousing PUR  Locking material   Zinc die casting  Mechanical data   Mounting data  Material prometure mix. 25 °C  Operating temperature mix. 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.  Attention: Observe the permissible bending radi when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	ECLASS-6.0	27279218
ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 EC00185  CUASS-12.0 EC00185  CU	ECLASS-7.0	27279218
ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           oustoms tariff number         85444290           GTIN         4048879551960           Packaging unit         1           Electrical data   Supply         Voperating voltage AC max.           Operating voltage DC max.         125 V           Corrent operating per contact max.         4 A           Installation   Connection         Stripping length (facket)           Stripping length (facket)         20 mm           Device protection   Electrical         Volument operating per contact max.           Additional condition protection degree         3           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Coating looking           Material housing         PUR           Locking material         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature max.	ECLASS-8.0	27279218
ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 12060311 ECLASS-12.0 1206031 ECLA	ECLASS-9.0	27060311
EGLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         404887951960           Packaging unit         1           Electrical data   Supply         Voperating voltage AC max.           Operating voltage DC max.         125 V           Current operating per contact max.         4 A           Installation   Connection         Installation   Connection           Device protection   Electrical         Volument operating voltage and protection degree inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 80684-1)         1           Mechanical data   Material data         Voltage of Control (Control (C	ECLASS-10.1	27060311
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         404879551960           Packaging unit         1           Electrical data   Supply         Voperating voltage AC max.         125 V           Operating voltage DC max.         125 V           Current operating per contact max.         4 A           Installation   Connection         Stripping length (jacket)         20 mm           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         3           Rated surge voltage         1,5 kV           Material group (EC 60664-1)         1           Mechanical data   Material data         Inserted, screwed, Shaking protection           Casing locking         Nickeled           Material housing         PUR           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature mix.           Operating temperature max.         45 °C           Operating temperature max.         85 °C           Addi	ECLASS-11.1	27060311
customs tariff number 85444290 GTIN 4048879551960 Packaging unit 1  Electrical data   Supply Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage DC max. 125 V Operating voltage DC max. 125 V Operating voltage pc contact max. 4 A  Installation   Connection Stripping length (jacket) 20 mm  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   Material data  Coating locking Miscked	ECLASS-12.0	27060311
GTIN 4048879551960 Packaign unit 1  Electrical data   Supply Operating voltage AC max. 125 V Operating voltage AC max. 125 V Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  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   Material data  Coaling locking Nickeled  Material housing PUR  Locking material 2 including data  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating 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	ETIM-5.0	EC001855
Packaging unit 1  Electrical data   Supply Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage DC max. 125 V Operating per contact max. 4 A  Installation   Connection Stripping length (jacket) 20 mm  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  Locking material   Surderial Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min. 25 °C Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protection class can be endangered by excessive bending forces.  Conformity  Product standard   Din En 61076-2-101 (M12)  Installation   Cable	customs tariff number	85444290
Electrical data   Supply  Operating voltage AC max. 125 V Operating voltage DC max. 125 V  Current operating per contact max. 4 A  Installation   Connection  Stripping length (facket) 20 mm  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional condition protection degree inserted, screwed  Pollution Degree 3  Attention Degree 1,5 kV  Material group (IEC 80684-1)   I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  Chocking material Deviating data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard Date   Cable	GTIN	4048879551960
Operating voltage AC max. 125 V Operating voltage DC max. 125 V Current operating per contact max. 4 A Installation   Connection  Stripping length (jacket) 20 mm  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 looking PUR  Locking material   Jine die-casting   Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  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	Packaging unit	1
Operating voltage DC max. 125 V Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  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  Material housing PUR  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	Electrical data   Supply	
Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 3  Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  Locking material zince degree inserted, screwed, Shaking protection  Mechanical data   Munting data  Munuting 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.  Contormity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable	Operating voltage AC max.	125 V
Installation   Connection  Stripping length (jacket) 20 mm  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 6064-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  Locking material 2 Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.	Operating voltage DC max.	125 V
Stripping length (jacket)  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 6064-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  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)	Current operating per contact max.	4 A
Stripping length (jacket)  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 6064-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  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   Connection	
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  Material housing PUR  Locking material Deventing 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	•	20 mm
Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  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		
Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  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	Additional condition protection degree	inserted, screwed
Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  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	· · · · · · · · · · · · · · · · · · ·	
Mechanical data   Material data  Coating locking Nickeled  Material housing PUR  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)		1.5 kV
Mechanical data   Material data Coating locking Nickeled Material housing PUR 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)		· · · · · · · · · · · · · · · · · · ·
Material housing PUR 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		
Locking material  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	Coating locking	Nickeled
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	Material housing	PUR
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	Locking material	Zinc die-casting
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	Mechanical data   Mounting data	
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 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	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.  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)	Environmental characteristics   Climatic	
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	Operating temperature min.	-25 °C
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	Operating temperature max.	85 °C
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	Additional condition temperature range	depending on cable quality
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	Important installation notes	
endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable	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	Note on bending radius	
Installation   Cable	Conformity	
	Product standard	DIN EN 61076-2-101 (M12)
Cable identification 638	Installation   Cable	
	Cable identification	638

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: 2024-05-13



Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
wire arrangement	black 1, black 2, black 3, black 4, green-yellow
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Cable weigth	81,4 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	7 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	5
Outer diameter insulation	1,85 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	8,4 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire -	2,5 kV @ 60 s
jacket)	
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
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	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min