

## M12 male 90° / M8 female 90° A-cod.

PVC 3x0.25 gy UL/CSA 0.3m

Male 90° - female 90°

M12 - M8, 3-pole

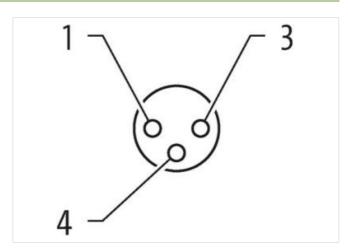
Plastic housings with good resistance against chemicals and oils.

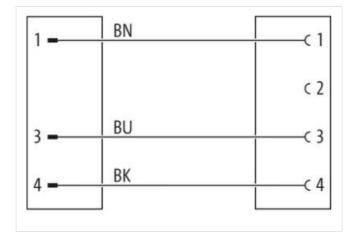
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

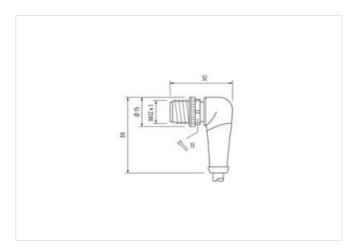
## **Link to Product**

## Illustration



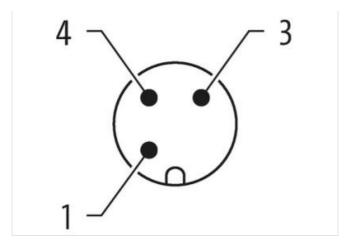








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Product may differ from Image











Cable length	0,3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Material	PUR
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879158497
Packaging unit	1
Electrical data   Supply	

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: 2024-05-17



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Operating voltage DC max.         60 V           Operating voltage AG UL listed)         30 V           Operating voltage AG UL visited)         30 V           Operating voltage DC UL visited)         30 V           Operating voltage per contact max.         4 A           Pollution condition protection degree         inserted, screwed           Pollution Degree         3           Balled surge voltage         1,5 kV           Material group (EG 6064-1)         I           Mechanical data   Material data   Machinal data	Operating voltage AC max.	50 V
Operating voltage AC (UII sieted) 30 V Current operating per contact max. 4 A Device protection   Electrical Additional contains pretroined may be a provided or secure of perating per contact max. 4 A Device protection   Electrical Additional contains protection degree inserted, servewed Potution Degree 3 Rated augue voltage 1,5 kW Additional contains protection degree 1,5 kW Additional contains protection degree 3 Rated augue voltage 1,5 kW Additional contains protection degree 3 Rated augue voltage 1,5 kW Additional contains   Material data   Locking material   Material data   Locking material   Zinc die casting   Material growe (and in Material data   Locking material   Zinc die casting   Material serve connection   Zinc die casting   Material serve connection   Zinc die casting   Material serve connection   Zinc die casting   Material serve in material   Material data   Mounting data   Mounting method   Zinc die casting   Material serve in method   Zinc die casting   Material   Material   Zinc die casting   Material   Material   Zinc die casting   Material   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die casting   Zinc die clorification   Zinc die casting   Zinc die cast	Operating voltage DC max.	60 V
Current prediction   Electrical         4 A           Device protection   Electrical           Actification condition protection degree         3           Pollution Degree         3           Rail day gay voltage         1,5 kV           Mechanical data   Material data         Volume (EG 90064-1)         I           Mechanical data   Material data         Nokolad         Contains of leviling         Incide plated           Locking in production         Zinc die-casting         Material across connection         Zinc die-casting           Mechanical data   Mounting data         Incide die across connection         Zinc die-casting           Mechanical data   Mounting data         Incide die across connection         Zinc die-casting           Mechanical data   Mounting data         Valume die across connection         Zinc die-casting           Mounting method         Innered, screwed, Shaking protection         Production of the partial protection of the partial protect		30 V
Device protection   Electrical   Additional condition protection degree   Additional condition protection degree   Pollution Degree   Sared surge violage   St. KV   Material group (EC 60064-1)	Operating voltage DC (UL-listed)	30 V
Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (EC 60664-1)         1           Mechanical datal Material data         Coating looking         Nickeled           Coating of fitting         nickel plated         Locking material         Zino discessing           Machanical datal Mounting data         Inserted, screwed, Shaking protection         Mechanical datal Mounting data           Mounting method         inserted, screwed, Shaking protection         Mechanical datal Mounting data           Mounting method         inserted, screwed, Shaking protection         Mechanical datal Mounting data           Mounting method         inserted, screwed, Shaking protection         Mechanical datal Mounting data           Mounting intemperature min.         25 °C         Coperating temperature max.         85 °C           Operating temperature max.         85 °C         Actional Compension of the protection of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on banding radiu         Attention: Closerver the permissible bending radii when laying cables, as the IP protection class can be andangared by excessive bending torces.           Product standard         DIN EN 61076 2-101 (M12), DIN EN 61076 2-114 (M8)           Institution   Cable		4 A
Falted surge voltage 1,5 kV Rated surge voltage 1,5 kV Material group (EC 60664-1) 1  Mechanical data   Material data Coating offining nickel plated Locking material Zinc die casting Material screw connection Zinc die zinc Zinc die casting Material screw connection Zinc die zinc Zinc Zinc Zinc Zinc Zinc Zinc Zinc Z	Device protection   Electrical	
Rate of surge voltage         1,5 kV           Material group (IEC 80684-1)         1           Mechanical datal Material data         Mickeland           Coating locking         Nickeland           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical datal Mounting data         Mounting method           Environmental characteristics [Climation         Coperating temperature max           Operating temperature max         25 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Conformity         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Conformity         Protect the connectors by suitable measures f	Additional condition protection degree	inserted, screwed
Material group (IEC 80864 1)         I           Mechanical data (Material data         Michaed           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data (Mounting data)         inserted, screwed, Shaking protection           Environmental characteristics (Climate)         Coperating temperature min.           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain 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), DIN EN 61076-2-114 (M8)           Installation   Cable         210           Cable identification   Cable         210           Cable (dentification   Cable         210           Type of Certificate   Cable weight         25.72 pin           Amount str	Pollution Degree	3
Mechanical data   Material data   Mickeled   Coating of Ritting   nickel plated   Code   Coating of Ritting   nickel plated   Code   Coating of Ritting   Coating of Ritting   Coating of Ritting   Coating	Rated surge voltage	1,5 kV
Coating locking         Nickeled           Coating of fitting         nickel pated           Coding material         Zinc dis-casting           Mechanical catal Mounting data         Mounting method           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Commander of the Commander of	Material group (IEC 60664-1)	
Coating of fitting         nickel plated           Locking material         Zinc die casting           Material serve vonnection         Zinc die casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         2.5° °C           Operating temperature min.         2.5° °C         Coperating temperature max.         85° °C           Additional condition temperature range         depending on cable quality         Total part of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           Note on strain relef         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.           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), DIN EN 61076-2-114 (M8)           Installation (Cable         Standard         210           Cable identification         210         20           Cable identification         210         20           Cable identification         210         20           Cable identification         120         120           Installation (	Mechanical data   Material data	
Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method           Inserted, screwed, Shaking protection           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 ities.           Note on bending radius         Attention: Cosserve the permissible bending radii when laying cables, as the IP protection class can be orderagened by excessive bending forces.           Conformity         Installation   Cable   Cab	Coating locking	Nickeled
Material screw connection         Zinc die casting           Mechanical data   Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           Additional condition temperature max.         85 °C           Volument installation notes         Vivilent in the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         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), DIN En 61076-2-114 (M8)           Installation   Cable         210         Cable description of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Condormity         DIN En 61076-2-101 (M12), DIN En 61076-2-114 (M8)	Coating of fitting	nickel plated
Mechanical data   Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable cidentification         210         Attention: Observe the per	Locking material	Zinc die-casting
Mounting method inserted, screwed, Shaking protection  Privionmental characteristics   Climatic Operating temperature min. 25 °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 Note 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable   C	Material screw connection	Zinc die-casting
Environmental characteristics   Climatic Operating temperature min.	Mechanical data   Mounting data	
Operating temperature min.  -25 °C Operating temperature max.  85 °C Additional condition temperature max.  85 °C Additional condition temperature range  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), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable identification  210  Cable Type  1  Jacket Color  gray  Type of Certificate  Amount stranding  1  Stranding  3 wires twisted  wire arrangement  brown, black, blue  Cable weigh  29,37 g/m  Material jacket  PVC  Shore hardness jacket  PVC  Shore hardness jacket  PVC  Shore hardness jacket  PVC  Shore identer (jacket)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PVC  Amount wires  3  Outer diameter (solaron core insulation  1,25 mm  Outer diameter (solaron core insulation  Atterial wire insulation  1,25 mm  Outer diameter (solaron core insulation  Atterial properties wire insulation  Material prope	Mounting method	inserted, screwed, Shaking protection
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), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable identification 210  Cable Type 1  Jacket Color gray  Type of Certificate cURlus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weight 29,37 g/m  Material jacket PVC  Shore hardness jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) ± 5%  Material wire insulation PVC  Amount wire insulation 1,25 mm  Outer diameter tolerance core insulation good machinability ingredient service insulation good machinability ingredient freeness wire insulation good machinability ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Outer diameter tolerance core insulation good machinability ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	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.  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), DIN EN 61076-2-114 (M8)  Installation   Cable    Cable identification   210	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.           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), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable dentification         210           Cable Type         1           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (seath)         ± 5 %           Material wire insulation         1,25 mm           Outer diameter insulation         4,5 ± 5 Shore D           Material properties wire insulation <t< td=""><td>Operating temperature max.</td><td>85 °C</td></t<>	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.  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), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable identification 210  Cable Type 1  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weight 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter isulation 1,25 mm  Outer diameter isulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 1,4  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm <sup>2</sup>	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.  Contormity  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable identification 210  Cable Type 1  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± S S hore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter (sheath) ± 5 %  Material wire insulation 1,25 mm  Outer diameter tolerance core insulation 45 ± 5 S hore D  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 1,45 mm  Outer diameter tolerance core insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Important installation notes	
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Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         210           Cable Type         1           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material ja properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           D	Note on bending radius	
Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         210           Cable Type         1           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material ja properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           D	Conformity	
Cable identification         210           Cable Type         1           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,25 mm²		DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable Type         1           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,25 mm²	Installation   Cable	
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,25 mm²	Cable identification	210
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,25 mm²	Cable Type	1
Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter tolerance core insulation 1,25 mm  Outer diameter tolerance core insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	•	gray
Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Type of Certificate	cURus
wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Amount stranding	1
Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Stranding	3 wires twisted
Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	wire arrangement	brown, black, blue
Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Cable weigth	29,37 g/m
Freedom from ingredients (jacket)  Outer-diameter (jacket)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PVC  Amount wires  3  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  5 %  Shore hardness wire insulation  Material properties wire insulation  45 ± 5 Shore D  Material properties wire insulation  Material properties wire insulation  Ingredient freeness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  14  Diameter of single wires  0,15 mm  Conductor crosssection (wire)  0,25 mm²	Material jacket	PVC
Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Shore hardness jacket	85 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material wire insulation       PVC         Amount wires       3         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       45 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Amount strands (wire)       14         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,25 mm²	Outer-diameter (jacket)	4,5 mm
Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm²	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       45 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Amount strands (wire)       14         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,25 mm²	Material wire insulation	PVC
Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Amount wires	3
Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Outer diameter insulation	1,25 mm
Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm²	Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Shore hardness wire insulation	45 ± 5 Shore D
Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Material properties wire insulation	good machinability
Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm <sup>2</sup>	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Conductor crosssection (wire) 0,25 mm <sup>2</sup>	Amount strands (wire)	14
	Diameter of single wires	0,15 mm
Material conductor wire Stranded copper wire, bare	Conductor crosssection (wire)	0,25 mm <sup>2</sup>
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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: 2024-05-17



Conductor type (wire)	Strand class 5
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 ℃
Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   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