

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

PVC 3x0.25 bk UL/CSA 2m

Male 90° - female 90°

M12 - M8, 3-pole

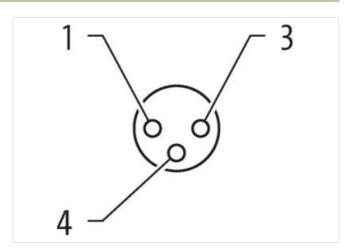
Plastic housings with good resistance against chemicals and oils.

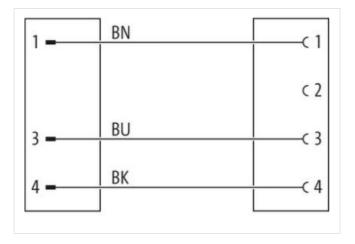
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

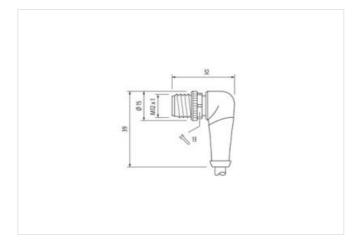
## **Link to Product**

## Illustration











stay connected





Product may differ from Image











Cable length	2 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	4048879158268
Packaging unit	1
Electrical data   Supply	



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Operating voltage AC UL Island         30 V           Operating voltage AC UL Island         30 V           Device protection [Electrics]         4 A           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Radid surg voltage         1,5 kV           Mineral group (IEC 8686-41)         I           Mechanical data Material data         Niceled           Conting of Itling         nickle plated           Locking material         Zinc discussing           Metheral group (IEC 8686-41)         I           Metheral source connection         Zinc discussing           Material Source connection         Zinc discussing           Material Source connection         Zinc discussing           Metheral source connection         Zinc discussing           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics I Climatic         Inserted, screwed, Shaking protection           Environmental characteristics I Climatic         Actional condition temperature may           Appearing temperature may         85 °C           Additional condition temperature group         depending on cable quality           More an ending radius         Attention Concerns by suitable measures from mechanical loids, e.g. by th	Operating voltage AC max.	50 V
Operating personanger contact max. 4 A  Device protection [Electrical   AA   A   A   A   A   A   A   A   A	Operating voltage DC max.	60 V
Operating personanger contact max. 4 A  Device protection [Electrical   AA   A   A   A   A   A   A   A   A	Operating voltage AC (UL-listed)	30 V
Additional protection degree   Inserted, screwed   Inserted   Inserted, screwed, Shaking protection   Inserted, Shaking protection	Operating voltage DC (UL-listed)	30 V
Additional condition protection degree         insented, screwed           Pollution Degree         3           Allouds surge voltage         1,5 kV           Material group (EC 60664-1)         1           Mechanical datal Material datal         Vocanting (posting)           Coading of fitting         nickele plated           Locking anabrail         Zinc die-casting           Mechanical datal Mounting datal         Inception           Mechanical datal Mounting datal         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Protect the connectors by suitable measures from mechanical totals.           Environmental characteristics   Climatic         Generality of properture max.           Operating temperature max.         85 °C           Additional condition Interperature range         depending on cable quality           Important installation notes         Note on bending radius           Note on bending radius         Attention: Cleareve the permissible bending radii when laying cables, as the IP protection clease can be endangered by excessive bending forces.           Cable identification   Cable         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Sack           Cable identificat	Current operating per contact max.	4 A
Additional condition protection degree         insented, screwed           Pollution Degree         3           Allouds surge voltage         1,5 kV           Material group (EC 60664-1)         1           Mechanical datal Material datal         Vocanting (posting)           Coading of fitting         nickele plated           Locking anabrail         Zinc die-casting           Mechanical datal Mounting datal         Inception           Mechanical datal Mounting datal         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Protect the connectors by suitable measures from mechanical totals.           Environmental characteristics   Climatic         Generality of properture max.           Operating temperature max.         85 °C           Additional condition Interperature range         depending on cable quality           Important installation notes         Note on bending radius           Note on bending radius         Attention: Cleareve the permissible bending radii when laying cables, as the IP protection clease can be endangered by excessive bending forces.           Cable identification   Cable         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Sack           Cable identificat	Device protection   Electrical	
Failud surgive voltage 1,5 kV Markeral group (FEC 60684-1)   Machanical data   Material data   Coating locking   Nickeled   Coating locking   Nickeled   Coating for fitting   nickel plated   Locking material   Zinc die-casting   Material scrow connection   Zinc die-casting   Material scrow connection   Zinc die casting   Mouring method   Inserted, screwed, Shaking protection   Environmental characteristies   Climatic   Environmental characteristies   Climati		inserted screwed
Rated surge voltage 1,5 kV Malerial group (EC 806641) I Malerial group (EC 806641) I Coating locking Nickeled Coating locking nickel plated Coating of fitting nickel plated Coating of fitting nickel plated Coating of fitting nickel plated Material screw connection Zinc die-casting Meterial plate (Simple Simple Si		· · · · · · · · · · · · · · · · · · ·
Material group (IEC 60684 1)  Mechanical data   Material data  Coating locking   Nickeled   Coating locking   nickel plated   Locking material   Zinc die-casting   Meterial screw connection   Zinc die-casting   Meterial group of the properture min.   Operating temperature min.   25 °C   Operating temperature max.   85 °C   Additional condition temperature range   depending on cable quality   Meterial condition temperature range   depending on cable quality   Mote on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.   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)   Miterial production   Cable   Zince   Cable identification   610   Cable Type   1   Jacket Color   black   Type of Carbificate   cURus   Amount standing   1   Standing   3 wires wisted   Wire arrangement   brown, black, blue   Cable weight   28,37 g/m   Material price in glocket   P/C   Shore hardness jacket   P/C   Shore hardness jacket   P/C   Shore diameter (jacket)   4,5 mm   Tolerance outer clameter (jacket)   4,5 mm   Tolerance outer clameter (jacket)   4,5 mm   Tolerance outer diameter (jacket)   4,5 mm   Tolerance outer diameter (jacket)   4,5 mm   Tolerance swire insulation   45 ± 5 Shore   Material wire insulation   45 ± 5 Shore		
Mechanical data   Material data         Nickeled           Coating of Ritting         nickel plated           Locking material         Zinc de-casting           Material screw connection         Zinc de-casting           Mechanical data   Mounting data         Mounting method           Environmental characteristics   Climatic         Operating temperature max.           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes           Note on starin relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable dies.           Note on starin relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable dies.           Note on starin relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable dies.           Note on starin relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable dies.           Attention: Observe the permissable bending radii when laying cables, as the IP protection class can be endangated by excessive bending forces.           Conformity         Protect of Cable (assertion)           Cable dentification (assertion)         610           Cable (assertion)         610		· · · · · · · · · · · · · · · · · · ·
Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical datal Mounting data         Mounting method           Environmental characteristics   Climatic         Commander of the Comma	,	'
Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Coperating temperature min. 25 °C  Operating temperature min. 35 °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 fies.  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 81076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Gable  Cable Igner   1  Jacket Color   Dack  Cable Igner   1  Jacket Color   Dack  Type of Certificate dUPus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigh 29.37 g/m  Material jacket PVC  Shore hardness jacket   B5 ± 5 Shore A  Freedom from ingredients (jacket)   4.5 mm  Tolerance outer diameter (jacket)   4.5 mm  Outer diameter (jacket)   4.5 mm  Outer diameter insulation   2.5 %  Amount strandis (insulation   PVC  Amount wires Outer diameter (lacket)   4.5 mm  Outer diameter insulation   2.5 %  Material wire insulation   2.5 %  Shore hardness wire insulation   2.5 %  Doubter diameter tolerance core insulation   2.5 %  Shore hardness wire insulation   2.5 %  Shore hardness wire insulation   2.5 %  Doubter diameter insulation   2.5 %  Doubter of single wire insulation   2.5	·	
Locking material Zinc die casting Material scrow connection Zinc die casting  Mounting data   Mounting data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min.		
Mechanical data   Mounting data         Mechanical data   Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climate         Coperating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range depending on cable quality         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 ended by excessive bending forces.           Conformity         Product slandard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Installation   Cable           Cable Type         1         1           Cable Type         1         1           Jacket Cloor         black         1           Yape of Cartificate         CURUS         2           Amount stranding         1         1           Stranding         3 wies twisted         29.37 g/m           Material jacket         PVC           Shore hardness jacket         8 5 t Shore A           Freedom from ingredients (jacket)         1.5 mm		·
Mechanical data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.		
Mounting method inserted, screwed, Shaking protection    Provice   Provice   Provice   Provice   Provice   Protect	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 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 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 in (an intermination of the control of	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   610 Cable Type   1 Jacket Color   black   Type of Cartificate   cURus   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   185 Shore A   Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, silicone-free   Outer diameter (sheath)   ± 5 %   Material wire insulation   1,25 mm   Outer diameter insulation   45 ± 5 Shore D   Material propries wire insulation   45 ± 5 Shore D   Material propries wire insulation   44 ± 5 Shore   CFC-free, silicone-free   Outer diameter tolorance core insulation   45 ± 5 Shore D   Material propries wire insulation   45 ± 5 Shore D   Material propries wire insulation   45 ± 5 Shore D   Material propries wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insulation   45 ± 5 Shore D   Material properties wire insul	Environmental characteristics   Climatic	
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.           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 foundation of the control of th	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.  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 610  Cable rype 1  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket Neve 85 ± S Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (alexet) ±5%  Tolerance outer diameter (sheath) ±5%  Amount wires 3  Outer diameter insulation pVC  Amount wires 3  Outer diameter insulation good machinability  Ingredient freeness wire insulation good machinability  Ingredient freeness 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		85 °C
Important installation notes         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         Combination of the control		depending on cable quality
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 610  Cable Type 1  Jacket Color black  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 (jacket) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter risulation ± 5 %  Shore hardness wire insulation ± 5 %  Shore hardness wire insulation good machinability Ingredient freeness wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter rolerance core insulation good machinability Ingredient freeness wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Onlameter of single wire insulation lead-free, cadmium-free, CFC-free, silicone-free  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	·	
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 610  Cable Type 1 1  Jacket Color black  Type of Certificate cURus  Amount stranding 1 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigh 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  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter insulation 1,25 mm  Material properties wire insulation 45 ± 5 Shore D  Material properties wire insulation 1,45 mm  Material properties wire insulation 1,50 mm  Material properties wire insulation 1,25 mm  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	•	Protect the connectors by suitable measures from mechanical leads, e.g. by the usage of cable ties
endangered by excessive bending forces.  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable  Cable Identification 610  Cable Identification 610  Cable Type 1 1  Jacket Color black Type of Certificate cURsus  Amount stranding 1  Stranding 3 wires wisted wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation PVC  Amount wires 3  Outer diameter (sheath) ± 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  Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 1,25 mm  Conductor crosssection (wire) 0,25 mm²  Conductor crosssection (wire) 0,25 mm²	Note on strain rener	
Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         610           Cable Type         1           Jacket Color         black           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 <th< td=""><td>Note on bending radius</td><td></td></th<>	Note on bending radius	
Installation   Cable           Cable identification         610           Cable Type         1           Jacket Color         black           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         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	Conformity	
Cable identification         610           Cable Type         1           Jacket Color         black           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 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	Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable Type         1           Jacket Color         black           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 insulation         ± 5 %           Shore hardness wire insulation         ± 5 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	
Cable Type         1           Jacket Color         black           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 insulation         ± 5 %           Shore hardness wire insulation         ± 5 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	610
Jacket Color         black           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		
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         ± 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		black
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 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           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		1
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		3 wires twisted
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 (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		
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		29,37 g/m
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	<u> </u>	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
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	-	
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	Freedom from ingredients (jacket)  Outer-diameter (jacket)	<u> </u>
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		4,5 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) Tolerance outer diameter (sheath)	4,5 mm ± 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) Tolerance outer diameter (sheath)	4,5 mm ± 5 % PVC
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)  Tolerance outer diameter (sheath)  Material wire insulation	4,5 mm ± 5 % PVC 3
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) Tolerance outer diameter (sheath) Material wire insulation Amount wires	4,5 mm ± 5 % PVC 3 1,25 mm
Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	4,5 mm ± 5 % PVC 3 1,25 mm ± 5 %
Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²	Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	4,5 mm  ± 5 %  PVC  3  1,25 mm  ± 5 %  45 ± 5 Shore D
Conductor crosssection (wire) 0,25 mm <sup>2</sup>	Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	4,5 mm ± 5 %  PVC  3  1,25 mm ± 5 %  45 ± 5 Shore D  good machinability
	Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Material properties wire insulation	4,5 mm  ± 5 %  PVC  3  1,25 mm  ± 5 %  45 ± 5 Shore D  good machinability  lead-free, cadmium-free, CFC-free, silicone-free
Material conductor wire Stranded copper wire, bare	Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Material properties wire insulation Ingredient freeness wire insulation	4,5 mm  ± 5 %  PVC  3  1,25 mm  ± 5 %  45 ± 5 Shore D  good machinability  lead-free, cadmium-free, CFC-free, silicone-free  14
	Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter insulation Shore hardness wire insulation Material properties wire insulation Ingredient freeness wire insulation Amount strands (wire)	4,5 mm  ± 5 %  PVC  3  1,25 mm  ± 5 %  45 ± 5 Shore D  good machinability  lead-free, cadmium-free, CFC-free, silicone-free  14  0,15 mm

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



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 °C
Operating temperature max. (dynamic)	80 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter