

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

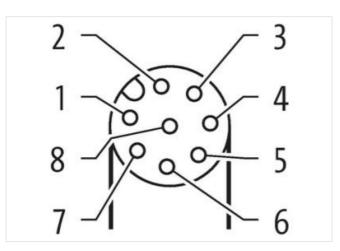
PUR 8x0.25 shielded gy UL/CSA+drag ch. 4m

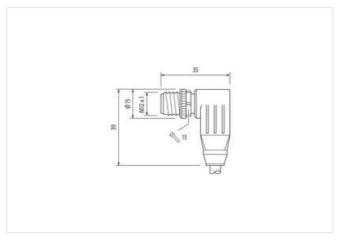
Male 90° – female 90° M12 – M12, 8-pole shielded Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product



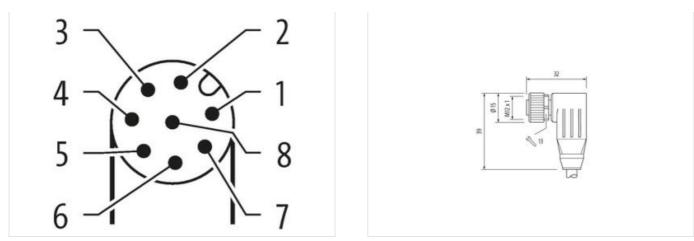
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The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-18





Product may differ from Image



Cable length	4 m	
Side 1		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	
Thread	M12 x 1	
Cable outlet	angled	
Coding	Α	
No. of poles	8	
Width across flats	SW13	
Side 2		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Family construction form	M12	
Thread	M12 x 1	
Cable outlet	angled	
Coding	A	
No. of poles	8	
Width across flats	SW13	
Commercial data		
ECLASS-6.0	27279218	
ECLASS-6.1	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	4048879811774	
Packaging unit	1	
Electrical data   Supply		

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Operating voltage DC max.         80 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per context max.         2 A           Device protocition (EN IEC 0525)         1985, IP67, IP66K           Degree of protocition (EN IEC 0525)         1985, IP67, IP66K           Additional condition protection elegree         1           Radi surge voltage         38 V           Material group (EC 0564+1)         1           Machanical data         Woltad           Cantour for corrungstee forse         without           Machanical data [Material data         Zin Concorrect Concorrect Material Concorect Material Concorrect Material Concorect Material Concorect Ma			
Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage Context max.         2.4           Device protection [Electical         Electical           Darge of protection relation account protection acgue match, screwed         A           Paulice Diogree         3           Radia surge of optication (Electical protection acgue match, screwed)         A           Paulice Diogree         3           Radia surge of optication (Electical protection acgue match, screwed)         A           Matchal data         Contro for corrugated hose           Contro for corrugated hose         without           Machanical data         Time office costing           Costing for corrugated hose         without           Machanical data         Time office costing           Costing for corrugated hose         without           Machanical data         Time office costing           Costing for costing the costing in the costin the costing in the costing in the costing in the cost	Operating voltage AC max.	30 V	
Operating voltage DC (UL-steed)         30 V           Current operating per contact max.         2 A           Device protection [Electrical         Envice protection [Electrical           Degree of polockion (EN IEC 60028)         1969, 1967, 1967, 19	Operating voltage DC max.	30 V	
Current operating per contact max.         2 A           Device op protection (FN IE 68:05:0)         IPes, IPEs7, IPEsK           Additional condition protection degree         inserted, servered           Pollution Degree         3           Rate surge vocage         3           Rate surge vocage         0.8 kV           Material group (IEC 68:06-1)         1           Mechanical data            Contor for comgared hone         without           Mechanical data            Costing locking         Nickeled           Costing locking         Inserted, servered, Shaking protection           Meximal characteristics [Clamatic            Operating temperature min.         -25 r -0           Operating temperature min.         -25 r -0           Oparating temperature min.         -25 r -0           Colon truly <td>Operating voltage AC (UL-listed)</td> <td colspan="2">30 V</td>	Operating voltage AC (UL-listed)	30 V	
Device protection ( EN EC 60282)         IP65. IP67. IP66K           Degree of protection (EN EC 60282)         IR65. IP67. IP66K           Stadianal condition protection degree         3           Rand auge valuage         0.8 k V           Material group (IEC 6064-1)         I           Material group (IEC 6064-1)         without           Contour for corrunguad hose         without           Material group (IEC 6064-1)         Without           Contour for corrunguad hose         without           Material group (IEC 6064-1)         Mithout           Material group (IEC 6064-1)	Operating voltage DC (UL-listed)	30 V	
Depend protection (EN IEC 60529)IP65, IP67, IP66KAdditional condition protection degreeIsented, screwedAdditional condition protection degreeIBarlad surge voltage0.8 kVMaterial group (IEC 60684-1)IMechanical dataIContour for corrungtad brasewithoutMachanical dataIncome degreeContour for corrungtad braseVickeledLocking materialIncome degreeMunting methodIncome degreeMunting methodIncome degreeMunting methodIncome degreeMunting methodIncome degreePortaling Inspersature max.26 5°Operating Inspersature max.26 5°Operating Inspersature max.26 5°Operating Inspersature max.26 5°Note on train leafProtect the correctore by suitable measures from mechanical loads, e.g. by the usage of cable leas.Note on train leafProtect the correctore by suitable measures from mechanical loads, e.g. by the usage of cable leas.Coloring train diffProtect the correctore by suitable measures from mechanical loads, e.g. by the usage of cable leas.Coloring traducProtect the correctore by suitable measures from mechanical loads, e.g. by the usage of cable leas.Coloring traducProtect the correctore by suitable measures from mechanical loads, e.g. by the usage of cable leas.Coloring traducProtect the correctore by suitable measures from mechanical loads, e.g. by the usage of cable leas.Coloring traducProtect the permissible bending radii when laying cables, as the IP protection dass can	Current operating per contact max.	2 A	
Additional condition protection degree         isented, screwed           Pollution Degree         3           Read surge voltage         0.8 kV           Material group (EC 80664.1)         I           Machanical data	Device protection   Electrical		
Polution Degree         3           Rated surge voltage         0,8 kV           Material group (IECe 6068-1')         I           Mechanical data         Image: Comparison of the c	Degree of protection (EN IEC 60529)	IP65, IP67, IP66K	
Rated supp vitage         0.8 kV           Material group (IEC 6068-1)         1           Machanical dis         Image: Contour for corrugated hose         without           Contour for corrugated hose         without         Image: Contour for corrugated hose           Machanical dis [ Material diss         Contour for corrugated hose         without           Containg locking         Nickeled         Image: Contour for corrugated hose           Containg locking         Zinc die casting         Image: Contour for Co	Additional condition protection degree	inserted, screwed	
Material group (IEC 60664-1) I Mechanical data Contour for corrugated hose Without Mechanical data Coating looking Nokeled Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fles. Attentor: Observe the permiscible bending radiu when laying cables, as the IP protection class can be endangered by excessive bending forces. Contormity Product standard DIN EN 61076 2-101 (M12) Institution Cable identification 291 Cable frype 3 Standard 1 Stranding 1 Stranding 1 Stranding 1 News around Core flier twisted Cable shelling (type) Copper braid, timed Cable shelling Coating the twisted Cable shelling (type) Copper braid, timed Cable shelling Coating the twisted Cable shelling Coating the twisted Cable shelling Coating the tweated Cable shelling Coatin	Pollution Degree	3	
Mechanical data         Without           Contour for corrugated hase         Without           Contain ploching         Nickled           Contain ploching         Xinckled           Contain ploching         Inscele, served, Shaking protection           Mechanical data   Mounting data         Inscele, served, Shaking protection           Mechanical data   Mounting data         Inscele, served, Shaking protection           Environmental characteristics   Climat         Poreating temperature min.           -025 °C         Operating temperature max.         85 °C           Operating temperature max.         85 °C         Social quality           Important installation notes         Important installation notes         Social quality           Important installation notes         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP	Rated surge voltage	0,8 kV	
Contour for corrugated hose         without           Contain jo coking         Nickeled           Contain jo coking         Nickeled           Concing coking         Can die casting           Machanical data   Mounting data         Incere casting           Machanical data   Mounting data         Inserted, sarewed, Shaking protection           Environmental characteristics   Climati         Operating tomportature main.         28 °C           Operating tomportature main.         28 °C         Concomportation comportature main.         28 °C           Additional condition temperature main.         28 °C         Concomportation installation notes         Concomportation and a service of participation protection class casting protection class casting protection class casting ending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Nate on stan relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Cable on standard         DIN EN 61076-2-101 (M12)           Installation (Cable         S1           Cable Organication         Garage           Cable Organication         Garage           Cable Organication         S1           Cable Mounting (type)         Garage Coline Huisted	Material group (IEC 60664-1)		
Mechanical data   Material data         Nickeled           Locking material         Nickeled           Locking material         Contencessing           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics [ Climatic	Mechanical data		
Mechanical data   Material data         Nickeled           Locking material         Nickeled           Locking material         Contencessing           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics [ Climatic	Contour for corrugated hose	without	
Cading locking         Nickeled           Locking material         Zin cile-casing           Mechnical data   Mounting data         Iisserted, screwed, Shaking protection           Environmental characteristics   Climatu         25 °C           Operating temperature max.         85 °G           Additional condition temperature max.         85 °G           Important installation notes         Uncertain science in sc	-		
Locking material         Zinc die-casting           Mechanical data   Mounting data           Mounting method         inserted, screwed. Shaking protection           Environmental characteristics   Climatic         25 °C           Operating temperature max.         85 °C           Additional condition temperature max.         85 °C           Mote on stain relef         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tites.           Note on stain relef         DIN EN 61076 2-101 (M12)           Installation Cable         DIN EN 61076 2-101 (M12)           Installation [Cable         291           Cable Indentification         291           Cable Indentification         1           Stranding         1           Stranding         1	· · · · · · · · · · · · · · · · · · ·		
Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic			
Munting method         inserted, screwed, Shaking protection           Environmental characteristics [ Climatic         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation networe range         depending on cable quality           Important installation temperature range         depending on cable quality           Important installation networe range         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.           Conternity         Installation forces.         Conternity           Product standard         DIN EN 61076-2-101 (M12)         Installation (Cable           Cable of hypic         3         3         3           Cable of hypic         3         3         3           Cable of hypic         gray         Type of Certification         1           Stranding         9         Nerisean out Core filler twisted         Cable shielding (rowerage)         80 %           Banding         Fileere, Foll         Type of Certification         1           Wriee arangement         Drown, white, red, blue, pink, gray, yellow, green         C		Zinc die-casting	
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         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.           Conormity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Cable indinification         291           Cable indinification         291         Cable Type         3           Cable Color         gray         Type of Cartificate         cURus           Anount stranding         1         Stranding         8 wires around Core filler twisted           Cable shielding (toyerage)         80 %         Stranding         Stranding           Banding         Pieoce, Foil         Filler         Stranding         Stranding           Banding         Ves         Stranding         Stranding         Stranding         Stranding         Stranding         Stranding         Strand	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.           Contomity            Product standard         DIN EN 610762-101 (M12)           Installation (Cable         291           Cable identification         291           Cable doet         gray           Type of Cartificate         Qingary           Anount strainding         1           Stranding         8 wires around Core filler twisted           Cable shielding (tope)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Filece, Foil           Filer         yes           wire arangement         borw, white, red, blue, pink, gray, yellow, green           Cable weight         78.1 g/m           Material jacket         PUR           Shore A         Freedorn	Mounting method	inserted, screwed, Shaking protection	
Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Mete 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.           Conomity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Cable identification         291           Cable identification         291         Cable identification         201           Cable Type         3         Jacket Color         gray           Type of Carlificate         cURus         Amount stranding         1           Stranding         1         Stranding         1           Cable shelding (type)         copper braid, tinned         Cable shelding (coverage)         80 %           Banding         Fleecece, Foi	Environmental characteristics   Climatic		
Additional condition temperature range         depending on cable quality           Important installation notes         Mote 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         Cable identification         291           Cable identification         291         Cable identification         291           Cable Identification         291         Cable identification         291           Cable Type         3         3         3         3           Jacket Color         gray         7         7         9         0 Certificate         CURus           Amount stranding         1         1         3         3         3         3         3           Gable shielding (type)         copper braid, tinned         2         2         3         3           Branding         1         Stranding         8 wires around Core filler twisted         3         3         3           Cable shielding (type)         copper braid, tinned         3	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 EN 61076-2-101 (M12)           Installation   Cable         Cable identification         291           Cable identification         291         Cable identification         291           Cable of cable frype         3         3         3         3           Anount stranding         1         Stranding         8 wires around Core filler twisted         Cable shielding (type)         copper braid, tinned           Cable shielding (type)         copper braid, tinned         Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned         Stranding         9 %         Stranding		85 °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 ending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Cable identification         291           Cable identification         291         Cable identification         291           Cable Identification         gray         Type of Certificate         CURvis           Amount stranding         1         Stranding         Stranding         Stranding           Stranding         8 wires around Core filler twisted         Cable shielding (type)         copper braid, tinned           Cable coverage)         80 %         Stranding         Stranding         Fleece, Foil           Filler         yes         yes         Stranding         Stranding         Stranding           Cable shielding (type)         copper braid, tinned         Cable shielding (toverage)         80 %           Banding         Fleece, Foil         Stranding         Stranding         Stranding           Cable weight         78,1 g/m         Stranding         Stranding		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.           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         Image: Conformity           Product standard         DIN EN 61076-2-101 (M12)           Image: Conformity         Image: Conformity           Cable identification         291           Cable identification         291           Cable of Color         gray           Type of Certificate         CURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable weigh         78.1 g/m           Wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Cable weigh         78.1 g/m           Material jacket         9UR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         4 5 %           Material wire insulation         PP </td <td>· -</td> <td></td>	· -		
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         291           Cable identification         291           Cable for gray         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Filece, Foil           Filer         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Cable weigth         7,1 g/m           Material jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter tolerance core insulation         ± 5 %	•	Protect the connectors by suitable measures from machanical loads, e.g. by the upage of apple tice	
Nucle of benuing radius         endangered by excessive bending forces.           Conformity           Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Distallation   Cable           Cable dentification         291           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         swires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (overage)         80 %           Banding         Fleece. Foil           Filler         yes           wire arrangement         Drown, white, red, blue, pink, gray, yellow, green           Cable weigth         71 gram           Material jacket         9U FR           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         8           Outer diameter tolerance core insulation	Note on strain relief		
Product standardDIN EN 61076-2-101 (M12)Installation [ CableCable identification291Cable Identification3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (type)copper braid, tinnedCable shielding (type)80 %BandingFleece, FoilFilleryeswire arangementbrown, white, red, blue, pink, gray, yellow, greenCable weight78.1 g/mMaterial jacket9U fs Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5 %Material javier insulationPPAnount wires8Outer diameter insulation1,2 mmOuter diameter insulation1,2 mm	Note on bending radius		
Installation   CableCable identification291Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbown, white, red, blue, pink, gray, yellow, greenCable weigth78,1 g/mMaterial jacket9U ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter diameter (sheath)± 5 %Amount wires8Outer diameter insulationPPAmount wires5 %	Conformity		
Installation   CableCable identification291Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbown, white, red, blue, pink, gray, yellow, greenCable weigth78,1 g/mMaterial jacket9U ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter diameter (sheath)± 5 %Amount wires8Outer diameter insulationPPAmount wires5 %	Product standard	DIN EN 61076-2-101 (M12)	
Cable identification291Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFieece, FoilFilleryeswire arrangementbrown, white, red, blue, pink, gray, yellow, greenCable weigth78,1 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Amount wires8Outer diameter insulation1,2 mmOuter diameter tolerance core insulation± 5 %	Installation   Cable		
Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, white, red, blue, pink, gray, yellow, greenCable weigth78, 1 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)90 ± 5 Shore ATolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires8Outer diameter (sheath)± 5 %	•	201	
Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arangementbrown, white, red, blue, pink, gray, yellow, greenCable weigth78,1 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (sheath)± 5 %Material wire insulationPPAmount wires8Outer diameter tolerance core insulation± 5 %			
Type of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, white, red, blue, pink, gray, yellow, greenCable weigth78,1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)2 %Material wire insulationPPAmount wires8Outer diameter (soltation)± 5 %Outer diameter tolerance core insulation1,2 mmOuter diameter tolerance core insulation± 5 %			
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BandingFleece, FoilFilleryeswire arrangementbrown, white, red, blue, pink, gray, yellow, greenCable weigth78,1 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires8Outer diameter tolerance core insulation± 5 %			
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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       8         Outer diameter insulation       1,2 mm         Outer diameter tolerance core insulation       ± 5 %			
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires8Outer diameter insulation1,2 mmOuter diameter tolerance core insulation± 5 %			
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Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       8         Outer diameter insulation       1,2 mm         Outer diameter tolerance core insulation       ± 5 %			
Material wire insulation     PP       Amount wires     8       Outer diameter insulation     1,2 mm       Outer diameter tolerance core insulation     ± 5 %			
Amount wires8Outer diameter insulation1,2 mmOuter diameter tolerance core insulation± 5 %	Tolerance outer diameter (sheath)		
Outer diameter insulation     1,2 mm       Outer diameter tolerance core insulation     ± 5 %	Material wire insulation		
Outer diameter tolerance core insulation ± 5 %	Amount wires		
	Outer diameter insulation		
Shore hardness wire insulation     70 ± 5 Shore D	Outer diameter tolerance core insulation		
	Shore hardness wire insulation	70 ± 5 Shore D	

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Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3 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
AC withstand voltage (wire - shield)	2 kV @ 60 s
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
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	5 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min

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