

## M12 male 0° / M8 female 0° A-cod. shielded

PUR 4x0.34 shielded bk UL/CSA+drag ch. 0,3m

Male straight – female straight M12 – M8, 4-pole shielded

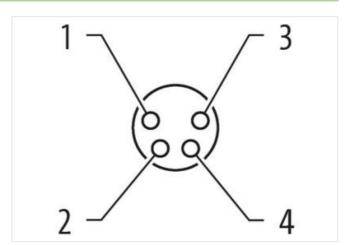
Plastic housings with good resistance against chemicals and oils.

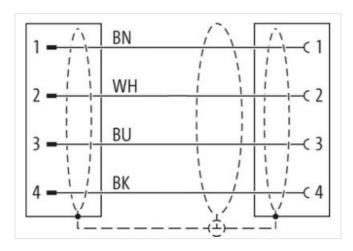
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

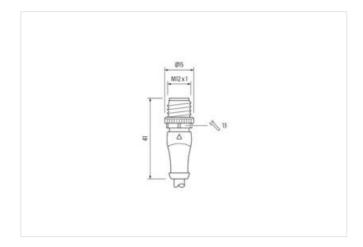
## **Link to Product**

## Illustration





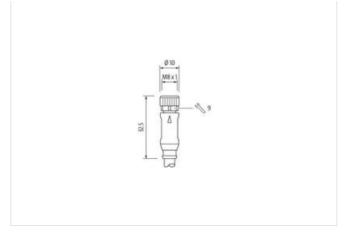






stay connected





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
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW13
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal Ø)	6,5 mm
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
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	05444000
	85444290

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: 2024-06-22



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Electrical data   Supply         50 V           Operating voltage AC max.         50 V           Operating voltage AC (IU-Isted)         30 V           Operating voltage AC (IU-Isted)         30 V           Current operating per context max.         4 A           Device protection (EN IEC 68520)         IP65, IP67, IP68, IP68K           Additional condition protection degree         18           Pollution Degree         3           Meterial group (IEC 68524)         I           Mechanics data I Mourtain data Interior at a condition protection degree         3           Mounting method         Nokeled           Locking locking         Nokeled           Locking ratefal at Mounting data         Interior d. Crewed. Shaking portection           Environmental characteristics Climate         Professor of the capability of the content of the content of the capability of the content of the capability of the	Packaging unit	1
Operating vallage D C mass         60 Y           Operating voltage AC (UL-lated)         30 V           Operating voltage AC (UL-lated)         30 V           Current operating per contact max.         4 A           Device protection (EN IEC 60529)         IP65, IP67, IP68, IP68K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Material group (IEC 60664-1)         I           Mechanical data [Mounting data         Xinc discretion           Mounting method         inserted, screwed Shaking protection           Environmental characteristics   Climatic         Climatic           Operating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operating temperature max.         -85 °C           Additional condition temperature max.         -85 °C           Operating defined to experimental max.         -85 °C           Operating radius         Attention: Cobserve the permissible bonding radius whe	Electrical data   Supply	
Operating vallage D C mass         60 Y           Operating voltage AC (UL-lated)         30 V           Operating voltage AC (UL-lated)         30 V           Current operating per contact max.         4 A           Device protection (EN IEC 60529)         IP65, IP67, IP68, IP68K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Material group (IEC 60664-1)         I           Mechanical data [Mounting data         Xinc discretion           Mounting method         inserted, screwed Shaking protection           Environmental characteristics   Climatic         Climatic           Operating temperature min.         -25 °C           Operating temperature min.         -25 °C           Operating temperature max.         -85 °C           Additional condition temperature max.         -85 °C           Operating defined to experimental max.         -85 °C           Operating radius         Attention: Cobserve the permissible bonding radius whe	Operating voltage AC max	50 V
Operating voltage AC (UL-Island)         30 V           Operating voltage AC (UL-Island)         30 V           Operating voltage AC (UL-Island)         30 V           Operating voltage AC (UL-Island)         4 A           Device or protection [Electrical         Device or protection (ISI ISC 60829)           Degree of protection Degree         3           Additional condition protection degree         Inserted, screwed           Pollution Degree         3           Mechanical data   Metrial data         Inserted, screwed, Shaking protection           Coaling looking         Nickoled           Locking material         Zinc de-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Inserted, screwed, Shaking protection           Operating temperature max         85 °C           Operating temperature max         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Note on the strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable sises.           Note on the strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable sises.           Conformity         Protect	· · · · · · · · · · · · · · · · · · ·	
Operating yearings pDC (ULL-listed)         30 V           Current operating per contact max.         4 A           Degree of protection (ENIEC 60828)         IP85, IP87, IP88, IP80K           Additional condition protection degree         Inserted, screwed           Pollution Degree         3           Material group (IEC 60864-1)         I           Mechanical data [Mounting data         Nickeled           Locking naterial         Zinc die-casting           Mechanical data [Mounting data         Mounting method           Environmental characteristics   Climatic         Operating properature mix.           Operating temperature mix.         -25 °C           Operating temperature mix.         -85 °C           Additions condition temperature mix.         -85 °C           Additions to temperature mix.         -85 °C           Additions condition temperature mix.         -85 °C           Note on their distallation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ses.           Note on their distallation optics.         Attentions: Observe the permissible benefing radiu when laying cribles, as the IP protection class can be endangered by excessive bending forces.           Conformity         Installation   Cable           were arrangement         brown, black, blue, white		**
Current operating per contect max.         4 A           Device protection (Electrica)           Degree of protection (EN IEC 6059)         IPSS, IPS7, IPS8, IPSK           Additional condition protection degree         inserted, screwed           Additional condition protection degree         inserted, screwed           Webchanical data (Material data)         Michaeled           Coating looking         Nicklede           Coating looking         Michaeled (Incident Material data)           Eventuring the material of the material of the material group (Incident Material data)         Michaeled (Incident Material data)           Eventuring temperature max.         85 °C           Operating temperature max.         85 °C           Control of the material in salialtion notes         Vision of 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.           Contemity         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.           Contemity         Protect the connectors by suitable measures from mechanical loads, e.g. by the us		
Device protection (EN IEC 60629)         IP66, IP67, IP68, IP60K           Additional condition protection degree         inserted, screwed           Follution Degree         3           Material group, IEC 60664-1)         1           Coaling locking         Nickuled           Locking material         Zinc de-casting           Mechanical data [Munting data         Michael Coaling Income           Mechanical data [Munting data         Jinc de-casting           Mechanical data [Munting data Income         Jinc de-casting           Mechanical data [Munting data Income         Jinc de-casting           Mechanical data [Munting data Income         Jinc de-casting           Environmental characteristics [Climatic         Environmental characteristics [Climatic           Poperating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Additional condition temperature range           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files.           Note on bending radius         Aftention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Colie		
Degree of protection (EN IEC 6052s) IP65. IP67. IP68. IP66K Additional condition protection degree inserted, screwed		
Additional condition protection degree   inserted, screwed   Pollution Degree   3   Machanical group IEC 60684-1)   I   Mechanical data   Material data   Coating looking   Nickeled   Looking marterial   Zinc die-casting   Mechanical data   Mounting data   Munning method   inserted, screwed, Shaking protection   Environmental characteristics   Climatic   Coperating temperature min.   25 °C   Operating temperature max.   65 °C   Operating temperature ma		IDEE IDE7 IDE0 IDEEV
Pollution Degree         3           Material group (IEC 60664-1)         I           Mechanical data   Meerland data         Nickaled           Locking malerial         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature min.         25 °C           Operating temperature min.         25 °C         Additional condition temperature range         depending semperature 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 ises.           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         Were arrangement         Drown, black, blue, white           Cable of type         3         3           School of Cartificate         QUEva           Type of Cartificate         QUEva           Cabl		
Material group (IEC 60664-1)         I           Mechanical data I Material data         Coading locking         Nickeled           Locking material         Zinc die-casting           Mechanical data I Mounting data         Inserted, screwed, Shaking protection           Environmental characteristies   Climate         Coperating temperature min.         -25 °C           Operating temperature rams.         65 °C         Additional condition temperature rams.         65 °C           Additional condition temperature rams.         65 °C         Additional condition temperature rams.         65 °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           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 slandard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Installation   Cable (additional conditional conditions)         Attention: Conditional conditional conditions and provided by excessive bending forces.           Conformity         Wire arrangement         brown, black, blue, white           Cable (additional conditional condition conditional conditions)         A wire strained conditional conditional conditions and conditional conditions and conditional conditions and conditional conditiona	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Nickeland   Docking   Docking   Docking   Docking   Docking   Docking   Docking   Docking   Docking   Docking material   Dock		
Coating locking         Nickeled           Locking material         Zinc die-casting           Mechanical datal Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         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.           Note on bending radius         Aftention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Vincture arrangement         Dire 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Vincture arrangement         Brown, black, blue, white           Cable of Installation of Cable of Ca		'
Locking material         Zinc die-casting           Mechanical data   Mounting data           Menunting method         inserted, screwed, Shaking protection           Environmental characteristics   Climate           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 bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endanged by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         brown, black, blue, white           Vail a grangement         brown, black, blue, white           Cable (dentification         641           Cable (a)         CUPus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, timed           Cable shielding (type)         copper braid, timed           Cable shielding (type)         copper braid, timed           Cable shielding (pype)         50.6 g/m <td>Mechanical data   Material data</td> <td></td>	Mechanical data   Material data	
Mechanical data   Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Operating temperature min.         2.5° 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 brading 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         brown, black, blue, while           Cable identification         641           Cable of Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires trivisted           Cable shielding (type)         copper braid, linned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Water arrangement         brown, black, blue, white           Cable weight         50.6 g/		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. 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 1076-2-101 (M12), DIN EN 61076-2-114 (M8) Installation   Cable Were arrangement brown, black, blue, white Cable identification 641 Cable Type 3 3 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 1 Stranding 4 Were swisted Cable shielding (type) copper braid, finned Cable shielding (coverage) 80 % Banding Fleece, Foil wire arrangement brown, black, blue, white Cable weigth 50,6 g/m Material jacket 90 ± Shore A Freedom from ingredients (jacket) 90 ± S hore A Freedom from ingredients (jacket) 15 % Material wire insulation 125 % Chuter diameter (sheath) 25 % Chuter diameter (sheath) 125 % Chuter diameter insulation 1,25 mm Chuter diameter insulation 7,0 ± 5 Shore D	Locking material	Zinc die-casting
Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending 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  view arrangement brown, black, blue, white  Cable identification 641  Cable Type 3  3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	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           Wire arrangement         brown, black, blue, white           Cable Infoation         641           Cable Infoation         641           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Bandring         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weight         50.6 g/m           Material jacket         PUR	Mounting method	inserted, screwed, Shaking protection
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           Wire arrangement         brown, black, blue, white           Cable Infoation         641           Cable Infoation         641           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Bandring         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weight         50.6 g/m           Material jacket         PUR	Environmental characteristics   Climatic	
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  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  wire arrangement brown, black, blue, white  Cable identification 641  Cable Type 3  Acket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Cable shielding (type) copper braid, tinned  Cable shielding (type) 80 %  Banding Fleece, Foil  wire arrangement brown, black, blue, white  Cable weight 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± Shore A  Freedom from ingredients (jacket) 5,3 mm  Tolevance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter (sheath) 1,25 mm  Chuter diameter rolerance core insulation 70 ± 5 Shore D		
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  wire arrangement brown, black, blue, white  Cable identification 641  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Cable shielding (toverage) 80 %  Banding Fleece, Foll  wire arrangement brown, black, blue, white  Cable weight 50,6 g/m  Material jacket PUR  Shore hardness jacket 90±5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter (sleaten) 1,25 mm  Outer diameter insulation 70±5 Shore D	-	
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         Installation   Cable           wire arrangement         brown, black, blue, white           Cable dentification         641           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weigh         50.6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diame		
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.  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable  Wire arrangement brown, black, blue, white  Cable identification 641  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  wire arrangement brown, black, blue, white  Cable weigh 50,6 g/m  Material jacket PUR  Shore hardness jacket 1  PUR  Material wire insulation PP  Amount wires 4  Aucular diameter (sheath) 1,25 mm  Outer diameter (sleaten) 70 ± 5 Shore D		depending on cable quality
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard  DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable  wire arrangement  brown, black, blue, white  Cable identification  641  Cable Type  3  Jacket Color  black Type of Certificate  CulRus  Amount stranding  1  Stranding  4 wires twisted  Cable shielding (type)  copper braid, tinned  Cable shielding (type)  Cable shielding (coverage)  80 %  Banding  Fleece, Foil  wire arrangement  brown, black, blue, white  Cable weight  50,6 g/m  Material jacket  PUR  Shore hardness jacket  62,3 mm  Tolerance outer diameter (skeath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Cuter diameter insulation  70 ± 5 Shore D	•	Protect the connectors by quitable managers from machanical leads, a griby the years of cable ties
endangered by excessive bending forces.  Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable wire arrangement brown, black, blue, white  Cable identification 641  Cable identification black Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wire stwisted Cable shielding (toverage) 80 %  Banding Fleece, Foil wire arrangement brown, black, blue, white  Sole weight 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 12,5 mm  Outer diameter (slacket) 1,25 mm  Outer diameter tolerance core insulation 70 ± 5 Shore D  Shore hardness wire insulation 70 ± 5 Shore D	Note on Strain rener	
Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           wire arrangement         brown, black, blue, white           Cable identification         641           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weighth         50,6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter tolerance core insulation	Note on bending radius	
Installation   Cable           wire arrangement         brown, black, blue, white           Cable identification         641           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weigth         50,6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	Conformity	
wire arrangement         brown, black, blue, white           Cable identification         641           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weigth         50.6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter tolerance core insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable identification         641           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weigth         50,6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D	Installation   Cable	
Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weigth         50,6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D	wire arrangement	brown, black, blue, white
Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 50 ± 5 Shore D	Cable identification	641
Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 50 ± 5 Shore D	Cable Type	3
Amount stranding 1 Stranding 4 wires twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 %  Banding Fleece, Foil wire arrangement brown, black, blue, white Cable weigth 50,6 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 5,3 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 70 ± 5 Shore D	Jacket Color	black
Stranding 4 wires twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Type of Certificate	cURus
Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Amount stranding	1
Cable shielding (coverage) 80 %  Banding Fleece, Foil  wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Stranding	4 wires twisted
Banding Fleece, Foil  wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Cable shielding (type)	copper braid, tinned
wire arrangement brown, black, blue, white  Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Cable shielding (coverage)	80 %
Cable weigth 50,6 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Banding	Fleece, Foil
Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5,3 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D	wire arrangement	brown, black, blue, white
Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Cable weigth	50,6 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 5,3 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Material jacket	PUR
Outer-diameter (jacket)       5,3 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     70 ± 5 Shore D		•
Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Tolerance outer diameter (sheath)	
Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Material wire insulation	PP
Outer diameter tolerance core insulation $\pm 5\%$ Shore hardness wire insulation $70 \pm 5$ Shore D	Amount wires	4
Shore hardness wire insulation 70 ± 5 Shore D	Outer diameter insulation	1,25 mm
	Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Outor diamotor tolorance core inicalation	
	Shore hardness wire insulation	



Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	57 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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min