

## M12 male 0° / M8 female 90° A-cod.

PUR 4x0.25 gy UL/CSA+drag ch. 3m

Male straight - female 90°

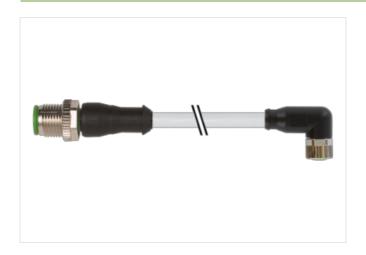
M12 - M8, 4-pole

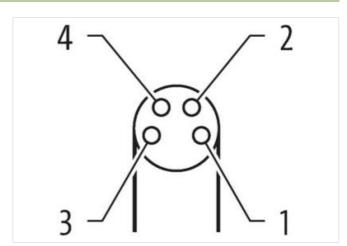
Plastic housings with good resistance against chemicals and oils.

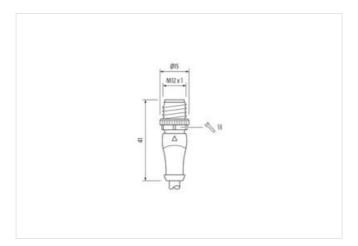
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## **Link to Product**

## Illustration



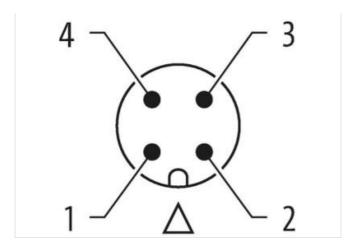








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Product may differ from Image











Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Cable outlet	straight
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
Cable outlet	angled
Coding	A
Material	PUR
No. of poles	4
Width across flats	SW9
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

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: 2024-04-25



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Packaging unit         1           Electrical data (Supply)           Operating voltage AC max.         60 V           Operating voltage AC (UL listed)         30 V           Degree of protection [Electrical         V           Degree of protection (EN IEC 60529)         IP65, IP67, IP68K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raded surge voltage         1,5 kV           Medical group (IEC 60564-1)         1           Medical at Material data         1,5 kV           Medical at Material data (Material data         1,5 kV           Coating bodying         Nickeled           Coating policy (Solicy)         1,5 kV           Medical at Material (Solicy)         1,5 kV           Mounting method         1,5 kV           Mounting method         1,5 kV           Mounting method         inserted, screwed           Polyce at a facility (Mounting data)         4,5 kV           Coperating temperature max.	customs tariff number	85444290
Electrical data   Supply         Operating voltage AC max.         50 V           Operating voltage AC (UL sleds)         30 V           Operating voltage AC (UL sleds)         30 V           Current operatings por contact max.         4 A           Device projection   Electrical           Device projection (FIN EC 6005 W)           Position production degree         Inserted, sorewed           Pollution Degree         1,5 X           Mallorial group (EC 60064-1)         1           Mechanical data   Martina         Nickelied           Coating Critique         Nickelied           Coating Critique         Nickelied           Color housing         black           Color contact carrier         grown           Color contact carrier         grown           Color contact carrier         grown           Locking martin         sincerted, scrowed, Shaking protection           Environmental characteristics   Climatic         Climatic           Operating temperature max         85 °C           Additional condition temperature range         depending on cable quality           Product standard         pin EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Institution   Cable         quality and project (Partical)           Ca	GTIN	4048879160414
Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Operating voltage AC UII-sleed)         30 V           Operating voltage DC (UII-sleed)         30 V           Operating voltage DC (UII-sleed)         30 V           Operating voltage CD (UII-sleed)         IPA           Device protection (EN IEC 60529)         IPSC, IPS	Packaging unit	1
Operating voltage DC msx.         60 V           Operating voltage AG (UL-listed)         30 V           Outrent portage por contact max.         4 A           Deurse protection (EN EC 60529)         IP85, IP87, IP66K           Additional condition protection degree         Inserted, screwed           Politision Degree         3           Ricad surpe voltage         1,5 k V           Material group (EC 60664-1)         I           Mechanical data   Marrial data         V           Coating locking         Nickleded           Goaling of Illiang         nickle plated           Color housing         blass           Color consist carrier         green           Color constat carrier         green           Locking material         Zinc die-casting           Muchanical data   Mounting data         inserted, screwed. Shaking protection           Mechanical data   Mounting data         inserted, screwed. Shaking protection           Environmental characteristics   Climatic         Circ die-casting           Muchanical data   Mounting data         inserted, screwed. Shaking protection           Environmental characteristics   Climatic         Constance of the protection of the	Electrical data   Supply	
Operating voltage DC msx.         60 V           Operating voltage AG (UL-listed)         30 V           Outrent portage por contact max.         4 A           Deurse protection (EN EC 60529)         IP85, IP87, IP66K           Additional condition protection degree         Inserted, screwed           Politision Degree         3           Ricad surpe voltage         1,5 k V           Material group (EC 60664-1)         I           Mechanical data   Marrial data         V           Coating locking         Nickleded           Goaling of Illiang         nickle plated           Color housing         blass           Color consist carrier         green           Color constat carrier         green           Locking material         Zinc die-casting           Muchanical data   Mounting data         inserted, screwed. Shaking protection           Mechanical data   Mounting data         inserted, screwed. Shaking protection           Environmental characteristics   Climatic         Circ die-casting           Muchanical data   Mounting data         inserted, screwed. Shaking protection           Environmental characteristics   Climatic         Constance of the protection of the	Operating voltage AC max.	50 V
Operating voltage AC (UL-listed)         30 V           Ourrent operating per contact max.         4 A           Device protection   Electrical         Degree of protection   Electrical           Degree of protection   Electrical         Degree of protection   Electrical           Degree of protection   Electrical         Sean   Sea		60 V
Operating voltage DC (UL-listed)         30 V           Current operating por contamax.         4 A           Degree of protection (EN IEC 80529)         IP55, IP67, IP86K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Macterial group (IEC 6064-1)         1           Mechanical data (Material data         Voltage (Control of Italian)           Coating policing         Nickeled           Coating policing         Nickeled           Coating policing         Nickeled           Coating policing         Index           Color Insuring         Black           Color contact carrier         green           Locking material         Zim die easting           Material screw connection         Zim die easting           Mechanial data (Mounting data         Michanical data (Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics (Climatic         Climatic           Operating temperature max.         25 °C           Additional condition temperature range         depending on cable quality           Controllination         231           Gable Type <td< td=""><td></td><td>30 V</td></td<>		30 V
Current operating per contact max.  Device profection   Electrical  Degree of protection   EN IEC 68529)   IP65, IP67, IP66K Additional condition protection degree   insented, screwed  Pollution Degree   3  Rated surge voltage   1,5 KV Meterial group (IEC 68664.1)   I  Mechanical data   Material data  Coating obtaing   Mickeled Coating of fitting   mickel plated Cooling obtaing   Zinc die-casting   Material grow connection   Zinc die-casting	Operating voltage DC (UL-listed)	30 V
Degree of protection (EN IEC 60329)         IP65, IP67, IP66K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Machanical data   Material data         I           Coating locking         Nickelod           Coating of fitting         nickel plated           Color housing         black           Color contact carrier         grown           Locking material         Zinc disc-casting           Material screw connection         Zinc disc-casting           Mechanical data   Mounting data         Mounting method           Environmental characteristics   Climate         Coperating temperature min.         25 °C           Operating temperature rain.         45 °C         Coperating temperature rain.         45 °C           Operating temperature rain.         25 °C         Coperating temperature rain.         25 °C           Operating temperature rain.         25 °C         Coperating temperature rain.         25 °C           Coperating temperature rain.         25 °C         Coperating temperature rain.         25 °C           Coperating temperature rain.         25 °C         Coperating temperature rain.         25 °C           Coperating temperature rain.	Current operating per contact max.	4 A
Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raded surge vortage         1,5 kV           Material group (IEC 80684-1)         I           Mechanical data [Material data           Coating Joshing         Nickoled           Coating Joshing         nickel pated           Color contact carrier         green           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Web and John Screwed, Shaking protection           Environmental characteristics   Climatic           Operating lemperature max.           As °C           Operating lemperature max.         As °C           Additional condition temperature range         depending on cable quality           Conformity           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         231           Cable of Type         3           Jacked Color         gray           Type of Cartificate         URB <td>Device protection   Electrical</td> <td></td>	Device protection   Electrical	
Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raded surge vortage         1,5 kV           Material group (IEC 80684-1)         I           Mechanical data [Material data           Coating Joshing         Nickoled           Coating Joshing         nickel pated           Color contact carrier         green           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Web and John Screwed, Shaking protection           Environmental characteristics   Climatic           Operating lemperature max.           As °C           Operating lemperature max.         As °C           Additional condition temperature range         depending on cable quality           Conformity           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         231           Cable of Type         3           Jacked Color         gray           Type of Cartificate         URB <td>Degree of protection (EN IEC 60529)</td> <td>IP65, IP67, IP66K</td>	Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Raterial group (IEC 60684-1)         1           Mechanical data   Material data         I           Coating locking         Nickeled           Coating of fitting         nickel plated           Color housing         black           Color contact carrier         green           Locking material         Zinc dis-casting           Material screw connection         Zinc dis-casting           Mechanical data   Mounting data         Mounting method           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Corporating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Vincus temperature max.         85 °C           Product standard         Din En 61076-2-101 (M12), DIN En 61076-2-114 (M8)           Installation   Cable         231           Cable identification         231           Cable identification         231           Cable identification         231           Cable identification         24           Amount stranding         1           1 Stranding         4 wires twisted           we	Additional condition protection degree	inserted, screwed
Raterial group (IEC 60684-1)         1           Mechanical data   Material data         I           Coating locking         Nickeled           Coating of fitting         nickel plated           Color housing         black           Color contact carrier         green           Locking material         Zinc dis-casting           Material screw connection         Zinc dis-casting           Mechanical data   Mounting data         Mounting method           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Corporating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Vincus temperature max.         85 °C           Product standard         Din En 61076-2-101 (M12), DIN En 61076-2-114 (M8)           Installation   Cable         231           Cable identification         231           Cable identification         231           Cable identification         231           Cable identification         24           Amount stranding         1           1 Stranding         4 wires twisted           we	' '	
Material group (IEC 60064-1)         I           Mechanical data   Material data         Mechanical data   Material data           Coating locking         Nickeled           Coating of litting         nickel plated           Color contact carrier         green           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.           Operating temperature max         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard           Installation   Cable         231           Cable installation   Cable         231           Cable installation   Cable         231           Cable installation   Catle   Currier         Quere derificate           Amount stranding         1           Yipe of Certificate         CURus           Amount stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (*C-tack)         10 Min. @ 25 °C		1,5 kV
Mechanical data   Material data         Nickeled           Coating of litting         nickel plated           Color frousing         black           Color contact carrier         green           Locking material         Zinc die-easting           Material serve connection         Zinc die-easting           Mechanical data   Mounting data         Inception of the part of the		<u> </u>
Coating locking         Nickeled           Coating of fitting         nickel plated           Color housing         black           Color contact carrier         green           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         ************************************		
Coating of fitting nickel plated Color lousing black Color contact carrier green Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Munuting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Conformity  Product standard DIN En 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable Cable identification Zil Cable Type 3 Jacket Color gray Type of Certificate CURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weigh 33 g/m Material jacket PUR Shore hardness jacket   PUR Freedom from ingredients (facket) 4,5 mm Tolerance outer diameter (schetth) 5 % Material suitabilation   29 Fire Amount wires 4  Quiter diameter insulation   PP Amount wires 4  Quiter diameter insulation   1,25 mm Quiter diameter insulation   1,25 shore b Shore hardness wire insulation   70 ± 5 Shore D		Nickeled
Color housing         black           Color contact carrier         green           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Competing temperature min.         -25 °C           Operating temperature man.         85 °C         Additional condition temperature range         depending on cable quality           Conformity         Product standard         DIN En 61076-2-101 (M12), DIN En 61076-2-114 (M8)           Installation   Cable         Cable identification         231           Cable identification         231           Cable Otor         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weight         33 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 </td <td></td> <td></td>		
Color contact carrier         green           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method           Environmental characteristics   Climatic           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         231         Cable identification         231         Cable identification         231         Cable identification         231         Cable identification         29 (DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)         DIN EN 61076-2-114		<u> </u>
Locking material 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.		
Metarial screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Comparing temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         31           Cable Indentification         231           Cable Indentification         31           Amount stranding         3           Year of Certificate         cURus           Amount stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. 25 °C           Cable weigh         33 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1 ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4 5 mm           Outer diameter (sheath)         ± 5 % </td <td></td> <td><del>-</del></td>		<del>-</del>
Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         45 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard           Installation   Cable         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         31           Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         culhus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. 25 °C           Cable weight         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1 ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4 5 %           Material wire insulation         4 PR		
Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         35 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Product standard         231           Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigh         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4.5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Am		Zino dio caoting
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Conformity           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable Identification         231           Cable Itype         3           Jacket Color         gray           Type of Certificate         cURs           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigth         33 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)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter t		inserted caravad Chaking protection
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Contomity         Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable         Stable Identification         231           Cable Type         3         3           Jacket Color         gray         3           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigth         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1 ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation <t< td=""><td></td><td></td></t<>		
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Conformity Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)  Installation   Cable Cable identification 231 Cable Type 3 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weigth 33 g/m Material jacket 90± 90± 55 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 1,25 mm Outer diameter tolerance core insulation 5 % Shore hardness wire insulation 70 ± 5 Shore D	·	
Additional condition temperature range         depending on cable quality           Conformity           Product standard         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weighth         33 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)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm           Outer diameter tolerance core insulation         7,0 ± 5 Shore D		
Conformity         DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)           Installation   Cable           Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         CURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weighth         33 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)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         4           Outer diameter 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)           Installation   Cable           Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigth         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,5 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	Additional condition temperature range	depending on cable quality
Installation   Cable           Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigth         33 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)         4,5 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	
Cable identification         231           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigth         33 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)         4,5 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	Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable Type 3 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weigth 33 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 insulation 1,25 mm Outer diameter tolerance core insulation 70 ± 5 Shore D	Installation   Cable	
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigth         33 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)         4,5 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 identification	231
Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Cable weigth 33 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) 4,5 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 Type	3
Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weigth 33 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) 4,5 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	Jacket Color	grav
Stranding 4 wires twisted  wire arrangement brown, black, blue, white  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Cable weigth 33 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) 4,5 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 Cortificate	9.47
wire arrangement brown, black, blue, white  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Cable weigth 33 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) 4,5 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	
No. of bending cycles (C-track)  10 Mio. @ 25 °C  Cable weigth  33 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)  4,5 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	cURus
Cable weigth 33 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) 4,5 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	**	cURus 1
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) 4,5 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	cURus 1 4 wires twisted
Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 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 Stranding	cURus  1  4 wires twisted brown, black, blue, white
Freedom from ingredients (jacket)  Outer-diameter (jacket)  7olerance outer diameter (sheath)  PP  Amount wires  4  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  Shore hardness wire insulation  70 ± 5 Shore D	Amount stranding Stranding wire arrangement	cURus  1  4 wires twisted brown, black, blue, white  10 Mio. @ 25 °C
Outer-diameter (jacket)         4,5 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 Stranding wire arrangement No. of bending cycles (C-track)	cURus  1  4 wires twisted  brown, black, blue, white  10 Mio. @ 25 °C  33 g/m
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 Stranding wire arrangement No. of bending cycles (C-track) Cable weigth	cURus  1 4 wires twisted brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR
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 Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket	cURus  1 4 wires twisted brown, black, blue, white  10 Mio. @ 25 °C  33 g/m PUR  90 ± 5 Shore A
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 Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket	cURus  1  4 wires twisted  brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D	Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	cURus  1  4 wires twisted  brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D	Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	cURus  1 4 wires twisted  brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %
Shore hardness wire insulation 70 ± 5 Shore D	Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	cURus  1 4 wires twisted brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %  PP
	Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	cURus  1 4 wires twisted brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free  4,5 mm  ± 5 %  PP
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	cURus  1 4 wires twisted brown, black, blue, white  10 Mio. @ 25 °C  33 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm ± 5 % PP  4  1,25 mm
	Amount stranding Stranding wire arrangement No. of bending cycles (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	cURus  1 4 wires twisted  brown, black, blue, white  10 Mio. @ 25 °C  33 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %  PP  4  1,25 mm  ± 5 %



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)	10 m @ 25 °C   horizontal
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3,6 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket)	2,5 kV @ 60 s
AC withstand voltage power (wire - wire)	2,5 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	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	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 180 °/m