

## M12 male 0° / M12 female 90° A-cod. LED

PUR 3x0.34 gy UL/CSA+drag ch. 4m

Male straight – female 90° M12 – M12, 3-pole 2× LED (PNP), (NPN) on request

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

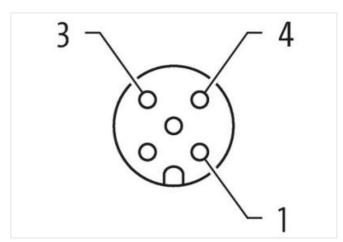
Plastic housings with good resistance against chemicals and oils.

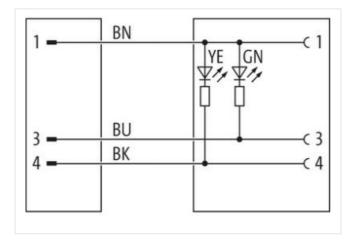
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

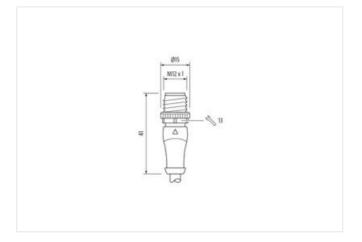
## **Link to Product**

## Illustration





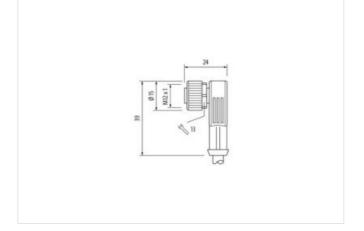






stay connected





Product may differ from Image











| Cable length                              | 4 m               |
|---|-------------------|
| Side 1                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |
| Side 2                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Commercial data                           |                   |
| ECLASS-6.0                                | 27279218          |
| ECLASS-7.0                                | 27279218          |
| ECLASS-8.0                                | 27279218          |
| ECLASS-9.0                                | 27060311          |
| ECLASS-10.1                               | 27060311          |
| ECLASS-11.1                               | 27060311          |
| ECLASS-12.0                               | 27060311          |
| ETIM-5.0                                  | EC001855          |
| customs tariff number                     | 85444290          |
| GTIN                                      | 4048879171113     |
| Packaging unit                            | 1                 |
| Electrical data   Supply                  |                   |
| Operating voltage DC                      | 24 V              |



stay connected

| Operating voltage DC max. (Likelety) 30 V  Counter operating per contact max. 4 A  Situs in fociation LED green, yellow  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed d  Pollution Degree 3 S  Railed surge voltage (ICE 60664-1) I  Mechanical data   Material data   Material data  Counting (sching micro)   Nickeled   | Operating voltage DC min.  | 18 V   |
|--|--|--|
| Diagnostics   Status Indication LED   green, yellow   Status Indication LED   green, yellow   Status Indication   Connection     | Operating voltage DC max.  | 30 V   |
| Diagnostics         Status in Octation LED         green, yellow           Installation   Connection         M12 x 1           Device protection   Electrical         M12 x 1           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group [ICE 08094-1]         I           Mechanical data   Material data         Coesting policing           Nickeled         Coesting policing           Coesting policing         Nickeled           Coesting policing         Inchested           Machanical data   Material data         Zinc dis-casting           Machanical data   Mourting data         Zinc dis-casting           Machanical data   Mourting data         Zinc dis-casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Vinc discrete (Continue)           Environmental characteristics   Climatic         Coperating temperature max         85 °C           Operating temperature max         85 °C         Coperating temperature reage         depending on castle quality           Important installation notes         Note on bending radiu         Alterial of the policine (Continue)           Volte on bending radiu <td>Operating voltage DC max. (UL-listed)</td> <td>30 V</td>   | Operating voltage DC max. (UL-listed)  | 30 V   |
| Installation   Connection           Installation   Connection         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raided surge voitage         0,8 kV           Material group (IEC 90084-1)         I           Mischanical data   Material data         Machinal group (IEC 90084-1)           Coating of Ittling         Nickeled           Coating of Ittling         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mountaing metho         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Concerning properature mix           Operating temperature mix         25 % C           Questing temperature mix         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Attention: Cibserve the permissable bending radii when laying cables, as the IP protection diass can be ending radiis when laying cables, as the IP protection diass can be endingerout by exocasine bending radii when laying cables, as the IP protection diass can be endingerout by exocasine bending radii when laying cables, as the IP protection diass can be endingerout by exocasine bending radii when layin   | Current operating per contact max.   | 4 A  |
| Mounting set   Mil 2 x 1   | Diagnostics  |  |
| Mounting set   Mil 2 x 1   | -  | areen vellow   |
| Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Raided surge voltage 0, 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating policing   Nickeled  Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Nickeled   Coating policing   Locking material   Zinc dis-casting   Material screw connection   Zinc dis-casting protection   Material standard   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)   Material standard   Zinc dis-casting   Mate |  | 9.00%, 70.00%  |
| Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV Material group (EC 60664-1) I Mechanical data   Material data Coating locking of fitting oickle plated Coating oickle plated Coating of fitting oickle plated Coating oickle | •  |  |
| Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (EC 60664-1) I  Mechanical data   Material data  Coating locking   Nickeled  Coating of filting nickel plated  Locking material   Zinc die casting   Material screw connection Zinc die casting   Mounting method   Inserted, screwed, Shaking protection   Environmental characteristics   Climatic   Poperating 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   Altention: Closerve the permissible bending forces.  Conformity   Product standard   Din En 61076-2-101 (M12)   Installation   Cable   Cable installation   Ca | Mounting set   | M12 x 1  |
| Pollution Degree 3 Rated surge voltage 0,08 kV Material group (IEC 60694-1) 1 Mechanical data   Material data Coating locking Nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Michanical data   Munting data Michanica | Device protection   Electrical   |  |
| Rated surge voltage 0.8 kV Material group (IEC 60664-1)  Coating locking Material data   Material data   Coating locking nickel plated   Coating of fitting nickel plated   Coating of fitting nickel plated   Coating of fitting nickel plated   Cothing malerial   Coating of fitting nickel plated   Cothing malerial   Cothing malerial   Cothing malerial   Cothing malerial   Commandation   Coation   Coati | Additional condition protection degree   | inserted, screwed  |
| Material group (IEC 60664-1)  Mochanical data   Material data Coating locking Nickeled Coating of litting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Additional condition temperature range depending on cable quality  Important installation notes  Attentions: 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   233  Cable Type   3  Jacket Color   9789   | Pollution Degree   | 3  |
| Mechanical data   Material data   Mickeled   Coating of fitting   nickel plated  | Rated surge voltage  | 0,8 kV   |
| Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method         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           Important installation notes         Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relef         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         233           Cable identification         233           Cable identification         233           Cable identification         233           Cable weight         9.7 yrm           Material jucket         PUR <t< td=""><td>Material group (IEC 60664-1)</td><td>I</td></t<>   | Material group (IEC 60664-1)   | I  |
| Coating of fitting nickel plated Locking material Locking material Locking material Locking material Zinc die-casting  Methanical datal Mounting data Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min. 2-5 ° C Operating temperature min. 4-5 ° C Operating temperature man. 8-6 ° C Additional condition temperature range depending on cable quality Important installation notes  Note on strain relief 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 2-33 Cable Type 3-3 Cable Type 3-3 Cable Type 3-3 Cable Type of Certificate CURus Annount stranding 1-1 Stranding 3-wires twisted wire arrangement brown, black, blue Cable weight 2-9,7 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) Lead-free, cadmium-free, CPC-free, halogen-free, silicone-free Culter diameter (sheath) ± 5 % Material wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1 placedient freeness wire insulation 1 placedient freeness wire insulation 1 placedient free, cadmium-free, CFC-free, halogen-free, silicone-free 1 placedient freeness wire insulation   | Mechanical data   Material data  |  |
| Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating 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.  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   233 Cable Type 3 Jacket Color gray Jacket Color gray  Type of Certificate cURus Amount stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigh 29,7 g/m Material jacket PUR Shore hardness jacket 99 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer diameter (jacket) 1,15 mm Outer diameter (sebath) 25 Shore D Ingredient freeness wire insulation 1,25 Shore D Ingredient freeness wire insulation 1,25 Shore D Ingredient freeness wire insulation 1,25 Shore D  | Coating locking  | Nickeled   |
| Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating 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.  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   233 Cable Type 3 Jacket Color gray Jacket Color gray  Type of Certificate cURus Amount stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigh 29,7 g/m Material jacket PUR Shore hardness jacket 99 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer diameter (jacket) 1,15 mm Outer diameter (sebath) 25 Shore D Ingredient freeness wire insulation 1,25 Shore D Ingredient freeness wire insulation 1,25 Shore D Ingredient freeness wire insulation 1,25 Shore D  | Coating of fitting   |  |
| Material screw connection         Zinc die-casting           Mechaical data   Mounting data         Mechanical data   Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Comparing temperature min.         2.5 ° C           Operating temperature man.         85 ° C           Additional condition temperature range depending on cable quality         depending 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 endangered by excessive bending forces.           Conformity         Todas a strain relief         DIN EN 61076-2-101 (M12)           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Todas a strain relief         DIN EN 61076-2-101 (M12)           Installation   Cable         Salica (Marchalla   | Locking material   | ·  |
| Mounting method inserted, Screwed, Shaking protection  Fivironmental 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.  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 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 1  Stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket 9UR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 4,1 mm  Tolerance outer diameter (sheath) ±5 %  Material wire insulation 1,25 mm  Outer diameter insulation 4 ± 5 %  Shore hardness wire insulation 1,25 mm  Outer diameter insulation 1,25 mm  Ingredient freeness wire insulation 1,25 shore D  Ingredient freeness wire insulation 1,26 Shore D  Ingredient freeness wire insulation 1,26 Shore D  Ingredient freeness wire insulation 1,26 Shore D  Ingredient freeness wire insulation 1,25 Shore D   | Material screw connection  |  |
| Mounting method inserted, Screwed, Shaking protection  Fivironmental 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.  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 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 1  Stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket 9UR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 4,1 mm  Tolerance outer diameter (sheath) ±5 %  Material wire insulation 1,25 mm  Outer diameter insulation 4 ± 5 %  Shore hardness wire insulation 1,25 mm  Outer diameter insulation 1,25 mm  Ingredient freeness wire insulation 1,25 shore D  Ingredient freeness wire insulation 1,26 Shore D  Ingredient freeness wire insulation 1,26 Shore D  Ingredient freeness wire insulation 1,26 Shore D  Ingredient freeness wire insulation 1,25 Shore D   | Mechanical data   Mounting data  |  |
| 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.  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 233 Cable Type 3 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigth 29,7 g/m Material jacket PUR Force outer diameter (jacket) 4,1 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 1,25 mm Outer diameter insulation 1,25 mm Uniformic missing insulation 1,25 mm Uniformic missing insulation 1,25 mm Outer diameter insulation 1,25 shore D Ingedient freeness wire insulation 1,25 shore D   |  | inserted, screwed. Shaking protection                          |
| Operating temperature min.   |  |  |
| Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  Cable weight 29,7 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 (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter tolerance core insulation 50 ± 5 Shore D  Ingredient freeness wire insulation 10 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  |  |  |
| 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)  Installation   Cable  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weight 29,7 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  Material wire insulation PP  Amount wires 3  Outer diameter (sheath) ± 5 %  Shore hardness wire insulation 1,25 mm  Outer diameter tolerance core insulation 50 ± 5 Shore D  Ingredient freeness wire insulation 1 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | <u> </u>   |  |
| 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 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigh 29,7 g/m  Material jacket PUR  Shore hardness jacket 99±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 3  Outer diameter insulation 70±5 Shore D  Ingredient freeness wire insulation 70±5 Shore D  Ingredient freeness wire insulation 104  Free, cadmium-free, CFC-free, halogen-free, silicone-free   | <u> </u>   |  |
| 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)  Installation   Cable  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket 99±5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 1,25 mm  Outer diameter (sheath) 1,25 mm  Outer diameter to learnce cover insulation 70±5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Ingredient freeness wire insulation 1,25 Shore D  |  | depending on dable 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)  Installation   Cable  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 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) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 5 ± 5 %  Shore hardness wire insulation 1 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | •  |  |
| endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 233  Cable Type 3  Cable Type 3  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 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) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Note on strain relief  |  |
| Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 233  Acable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket 90±5 Shore A  Freedom from ingredients (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 70±5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Ingredient freeness wire insulation 70±5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Note on bending radius   |  |
| Installation   Cable           Cable identification         233           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 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)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Conformity   |  |
| Cable identification         233           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 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)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Product standard   | DIN EN 61076-2-101 (M12)                                       |
| Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 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)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Installation   Cable   |  |
| Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 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 3  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Cable identification   | 233  |
| Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 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) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Cable Type   | 3  |
| Amount stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigth 29,7 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) 4,1 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Jacket Color   | gray   |
| Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 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) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Type of Certificate  | cURus  |
| wire arrangement brown, black, blue  Cable weigth 29,7 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) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Amount stranding   | 1  |
| Cable weigth 29,7 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) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Stranding  | 3 wires twisted  |
| 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) 4,1 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | wire arrangement   | brown, black, blue   |
| Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Cable weigth   | 29,7 g/m   |
| Freedom from ingredients (jacket)  Outer-diameter (jacket)  A,1 mm  Tolerance outer diameter (sheath)  E 5 %  Material wire insulation  PP  Amount wires  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Material jacket  | PUR  |
| Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Shore hardness jacket  | 90 ± 5 Shore A   |
| Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Freedom from ingredients (jacket)  | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  |  | 4,1 mm   |
| Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Outer-diameter (jacket)  |  |
| Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Outer-diameter (jacket)  Tolerance outer diameter (sheath)   | ±5%  |
| Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  |  |  |
| Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  | Tolerance outer diameter (sheath)  | РР   |
| Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   | Tolerance outer diameter (sheath)  Material wire insulation  | PP 3   |
| · · · · · · · · · · · · · · · · · · ·  | Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  | PP 3 1,25 mm   |
| Amount strands (wire) 42   | Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation   | PP 3 1,25 mm ± 5 %   |
|  | Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation | PP 3 1,25 mm ± 5 % 70 ± 5 Shore D                              |

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



| 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                                       |
| Traversing distance (C-track)                     | 10 m @ 25 °C   horizontal                            |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 6 A  |
| Electrical resistance line constant wire          | 57 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)                | 2,5 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 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                                  | UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  |
| chemical resistance                               | Good, application-related testing                    |
| Gasoline resistance                               | Good, application-related testing                    |
| Oil resistance                                    | Good, application-related testing   DIN EN 60811-404 |
| Bending radius (fixed)                            | 5 x Outer diameter                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C                                      |
| No. of torsion cycles                             | 2 Mio.   |
| Torsion stress                                    | ± 180 °/m  |
| Torsion speed                                     | 35 cycles/min  |