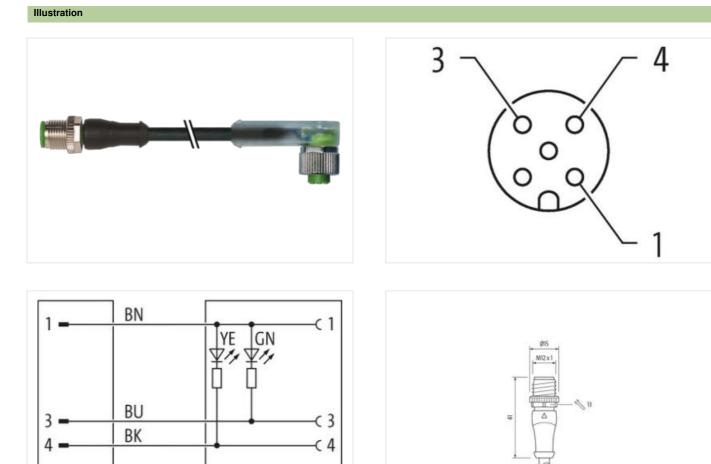


## M12 male 0° / M12 female 90° A-cod. LED

PUR 3x0.34 bk UL/CSA+drag ch. 12m

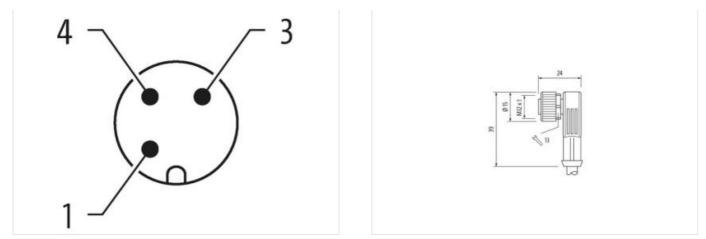
Male straight – female 90° M12 – M12, 3-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product



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: 2024-04-24





Product may differ from Image



Cable length	12 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 $\emptyset$ )	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	4048879772860
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V

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: 2024-04-24



Contrains (value) C max.     0 V       Operating (value) C max.     0 V       Contrains (value) C max.     4 A       Disprocisie     Status Indication LED     green, yellow       Instatus Indication LED     green, yellow     Status Indication LED     green, yellow       Excise protection I Electrical     MI 2 x 1     Excise protection (Connection     Status Indication LED     instatus Indication LED     Instatus Indication Connection       Marine J protection Optice     Instatus Indication Connection (Connection I Electrical     Additional Conflicton Direction Optice     Instatus Indication Connection (Connection I Electrical       Marine J protection Optice     0 R V     Instatus Indication Connection I Electrical     Instatus Indication Connection I Electrical       Marine J protection Optice     0 R V     Instatus Indication Connection I Electrical     Instatus Indication Connection I Electrical       Marine J protection Optice     0 R V     Instatus Indication Connection I Electrical     Instatus Indication I Electrical       Marine J protection Optice     0 R V     Instatus Indication I Electrical     Instatus Indication I Electrical       Marine J protection Optice Internation Internation I Instatus Internation I Electrical     Instatus Indication I Electrical     Instatus I I	Operating voltage DC min.	18 V
Operating part contact max.     4 A       Diagnostics     Status indication LED     green, yellow       Installation   Connection     M12 x 1       Device protection   Electrical     M12 x 1       Device protection   Electrical     Addition by protection of green       Addition protection of green     instruct, greened       Material graph (Ele Baller)     I       Mechanica detail Material data     Coaling by films       Coaling by films     Nicklead       Material science (Chance     Zinc die-casing       Mechanical data (Mouning data     Zinc die-casing       Mechanical films     Zinc d		
Current operating per contact max.     4 A       Diagnostics     green, yellow       Installation LED     green, yellow       Installation LED     green, yellow       Installation I Connection     Mounting set       Additional condition protection degree     inserted, screwed       Polucion Degree     3       Rated surge voltage     0,8 kV       Material group (EC 6066-1)     1       Mechanical data (Material data)     Cassing of fitting       Coaling of fitting     Nickeled       Coaling of fitting     Nickeled       Coaling of fitting     Nickeled       Coaling of fitting     Cassing of fitting       Mounting methor     Inserted, screwed, Shaking protection       Environmental chanacteristics (Climatic     Operating temperature min.       Operating temperature min.     -25 °C       Operating screenees max.     85°C		
BiggnoatiesStatus inclusion LEDgeen, yellowInstallation I ConnectionMil x 1Ourning atMil x 1Device protection I ElectricalInstallation I condition protection degreeAdditional condition protection degree3Rated sugs voltage0.8 NVMaterial stops (VE 50064 1)IConting CodingMickleidCoding Coding IIIMickleidCoding Coding IIIIMickleidCoding Coding IIIIMickleidCoding Coding IIIIMickleidCoding Coding Co		
Status indication LEDgreen, yellowInstantion (ConnectionDevice protection [ElectricalMil 2 1Addition condition protection degree///////////////////////////////		
Instaliation   Connection       Mourning set     M12 x 1       Devices protection   Electrical     Inserted, screwed       Pollution Dagree     3       Reade surge voltagen     0.8 kV       Material group (EC 60664 1)     1       International data [International data]     District of the stress of the stres		
Monting set     M12 x 1       Device protection   Electrical     Inserted, screwel       Additional condition protection degree     3       Rated surge voltage     0.8 kV       Material group (E06064+1)     I       Dechanical data   Material data     Nickeled       Coating of fing no     Nickeled       Coating of fing no     Nickeled       Locking material     Zinc dio casting       Material screw connection     Zinc dio casting       Material screw connection     Zinc dio casting       Monting method     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Concommetor       Operating method     Inserted, screwed, Shaking protection       Concommetor     26° C       Operating method     Generation emperature main.       Additional condition temperature main.     26° C       Operating temperature main.     26° C       Operating temperature main.     26° C       Operation condition temperature main.     26° C       Operating temperature main.     26° C       Operation Condition temperature main.     26° C       Operating temper	Status indication LED	green, yellow
Device protection   Electrical       Addition acondition production degree     inserted, screwed       Palladon Degree     3       Rated surge voltage     0,8 kV       Material group (EC 60664-1)     1       Hechanical data   Material data     Control of filing       Control of filing     nickel plated       Control of filing     nickel plated       Locking material     Zinc dis casting       Material screw connection     Zinc dis-casting       Material screw connection     Zinc dis-casting       Material screw connection     Zinc dis-casting       Mounting method     Inserted, screwed, Shaking protection       Everonematic haracteristics   Clinnak     Zinc dis-casting       Operating temperature min.     25 °C       Operating temperature max.     85 °C       Additional condition temperature may.     85 °C       Catteristing     Diversity       Protomental characteristics   Clinnak     Zinc discasting       Catteristing     Diversity       Catteristing     Diversity       Catteristing     Diversity       Protal temperature max.     B5 °C	Installation   Connection	
Additional condition protection degreeinserted, screwedPolitation Degree3Rated surge voltage0.8 kVMaterial group (EC 806841)1Mechnical datal [Material data)Coating lookingNikkledCoating lookingmickled platedLooking materialZinc dio castingMaterial group (EC 8006841)Zinc dio castingMaterial group comencionZinc dio castingMaterial active comencionZinc dio castingMaterial active comencion25 °COperating temperature rangedepending on cable qualityOperating temperature rangedepending on cable qualityContorning25 °COperating temperature rangedepending on cable qualityContorning25 °CContorning20 °CProduct standardDin EN 61076-2-101 (M12)Institution63 3Cable fore3Cable foreSince Material Since Mate	Mounting set	M12 x 1
Politzion Degree     3       Rated surge voltage     0.8 kV       Material group (EC 60664-1)     1       Mechanical data   Material data        Coating of firing     Nickele plated       Looking 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        Operating temperature min.     -25 °C       Operating temperature max.     65 °C       Additional condition temperature range     depending on cable quality       Conformity        Product standard     DIN EN 61076-2-101 (M12)       Material droug (Labek        Cable identification     633       Cable identification     633       Cable (C-track)     Dalack       Type of Certificate     cUFsus       Amount stranding     1       Stranding     3 wies twisted       wire strangement     Drown, black, blue       No. of banding cycles (C-track)     10 Mio,	Device protection   Electrical	
Rated surgo voltage     0.8 kV       Material group (IEC 6064-1)     I       Mechanical data   Material data     Coaling locking       Coaling locking     Nickeled       Coaling locking     Nickeled       Coaling locking material     Zinc die-casting       Material screw connection     Zind die-casting       Material screw connection     Zind die-casting       Material screw connection     Zind die-casting       Mourting method     inserted, screwed, Shaking protection       Environmental characteristics / Gimatic     Sing locking       Operating temperature min.     25 °C       Operating temperature max.     65 °C       Additional condition temperature max.     65 °C       Additional condition temperature max.     65 °C       Conformity     Product standard       DiN EN 61076-2:101 (M12)     Installation   Gable       Cable Type     3       Jacket Color     black       Type of Certificate     OUFus       Anount standing     1       Stranding     Swites twisted       wire strangement     brown, black, blue       No. of	Additional condition protection degree	inserted, screwed
Material group (IEC 6064-1)     I       Mechanical data   Material data        Coaling otking     Nickalad       Coaling otking     nickal plated       Locking material     Zinc die-casting       Material sorew connection     Zinc die-casting       Material sorew connection     Zinc die-casting       Mechanical data   Mounting data        Mechanical data   Mounting data        Mounting method     inserted, sorewed, Shaking protection       Environmental characteristics   Climatic        Operating temporature min.     -25 °C       Operating temporature max.     B5 °C       Additional condition temperature range     depending on cable quality       Conternity        Product standerd     DIN EN 61076-2101 (M12)       Installation   Cable        Cable Type     3       Jacket Color     Dack       Type of Certificate     CURus       Amount stranding     1       Stranding     3 wires twisted       wire strangement     brown, black, blue       No of hending cycles (C-track)     10 Mick @ 25	Pollution Degree	3
Mechanical data   Material data       Coating oloking     Nickeled       Coating of fitting     nickel plated       Locking material     Zine dic-casting       Material screw connection     Zine dic-casting       Mounting method     inserted, screwed, Shaking protection       Environmential characteristics   Climatic     Environmential characteristics   Climatic       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C       Contomity     Environmental characteristics   Climatic       Cable identification     633       Cable forph     3       Jacket Color     black       Type of Certificate     cURus       Anount stranding     1       Stranding     3 wites twated       wire arrangement     brown, black, blue       Nor of bending cycles (C+rack)     10 Mo. @ 25 °C       Cable weigh     29.7 g/m       Material jacket     PUR       Stron farcinos jackot     91.1 Shore A       Freedom from i	Rated surge voltage	0,8 kV
Coating looking     Nickeled       Coating of fitting     nickel plated       Looking methind     Zinc die-casting       Matrial screw connection     Zinc die-casting       Mexterial     Since die-casting       Mexterial screw connection     Zinc die-casting       Previous scheduling demonstrature range     depending on cable quality       Conformity     Preduct standard     DIN EN 61076-2-101 (M12)       Instaliation (Cable     Cable Type     3       Cable of Color     DIN EN 61076-2-101 (M12)     Size (Cable Type       Instaliation (Cable     Cable Type     3       Jacket Color     Disk     Cable Type     3       Jacket Color     black     Type of certificate     OURUS       Anount standing     1     1     Size Marching yee (Carlax)     Nick & Sixe Mathed       No. of bending cycl	Material group (IEC 60664-1)	I
Coating of fitting     nickel plated       Locking material     Zinc die-casting       Methenical data [Mounting data     Incertedie-casting       Mechanical data [Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C	Mechanical data   Material data	
Coating of fitting     nickel plated       Locking material     Zinc die-casting       Methenical data [Mounting data     Incertedie-casting       Mechanical data [Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C	Coating locking	Nickeled
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.     25 °C       Operating temperature max.     85 °C     Additional condition temperature range     depending on cable quality       Conformity     Product standard     DIN EN 61076-2-101 (M12)     Inselfable       Cable frype     3     Jacket Color     black       Type of Certificate     c.URus     Amount stranding     1       Stranding     3 wires twisted     wire arrangement     brown, black, blue       No. of bernding cycles (C-track)     10 Min. @ 25 °C     Cable wigh     29.7 g/m       Material jacket     PUR     Shore A Free, cardmium-free, CFC-free, halogen-free, silicone-free     Culer-diameter (gacket)     4.1 mm       Toleramee outer diameter (gacket)     10 Min. @ 25 °C     5%     Material jacket     PUR       Shore hardness jacket     90 ± 5 % Shore A     Freedom from ingredients (gacket)     10 ± 5 %       Material wire insulation		
Material screw connection     Zinc die casting       Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 ° C       Operating temperature max.     85 °C     Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C     Additional condition temperature max.     85 °C       Conformity     Product standard     DIN EN 61076-2-101 (M12)     Installation   Cable       Cable identification     633     Cable identification     633       Cable identification     633     Cable identification     533       Type of Certificate     culRus     Amount stranding     1       Stranding     3 wires twisted     wire arrangement     brown, black, blue       No, of bending cycles (C+track)     10 Mio. @ 25 °C     Cable weigh     29. °J m       Material jacket     PUR     Shore A     Freedom from ingredients (jacket)     90 ± 5 Shore A       Freedom from ingredients (jacket)     iad free, cadmium free, CFC free, halogen-free, silicone-free     Outer diameter (sheat1)     ± 5 %		
Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Comportance       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     633       Cable fripe     3       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       Wrie arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mio. @ 25 °C       Cable weigh     29.7 g/m       Material jacket     PUR       Shore hardness jacket     PUR       Shore hardness jacket     PUR       Amount stranding     1.5 °m       Outer diameter (jacket)     4.1 mm <td< td=""><td></td><td></td></td<>		
Mounting method     inserted, screwed, Shaking protection       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)       Installation   Cable        Cable identification     633       Cable identification     633       Cable identification     633       Cable identification     633       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       Wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mlo. @ 25 °C       Cable weight     29.7 g/m       Material jacket     PUR       Shore hardness jacket     PUR       Shore A     Freedom from ingredients (jacket)       I celarate or utimeter (sheath)     ± 5 %       Material jacket     PUR       Colerance outimeter (sheath)     ± 5 %       Materia		
Environmental characteristics   Climatic       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     633       Cable identification     633       Gaber Color     black       Type of Confidence     CJRus       Armount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mio. @ 25 °C       Cable weigh     29.7 grim       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- claimeter (isoutation     1.25 mm		incorted corowed Shelving protection
Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Conformity     Image: Conformity       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Cable identification       Cable identification     633       Cable identification     633       Cable identification     640       Operating temperature max.     85 °C       Additional condition temperature may     depending on cable quality       Installation   Cable     Cable identification       Cable identification     633       Cable identification     643       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mio. @ 25 °C       Cable weigh     29.7 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingreedients (jacket)     lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     4	-	inserted, screwed, Shaking protection
Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Conformity     INEN 61076-2-101 (M12)       Installation   Cable     Cable identification       Cable identification     633       Cable identification     633       Cable identification     633       Cable identification     633       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mio. @ 25 °C       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 out (diameter (leheatth)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter (leheatth)     ± 5 %       Material wire insulation		
Additional condition temperature range   depending on cable quality     Conformity     Product standard   DIN EN 61076-2-101 (M12)     Installation   Cable     Cable didentification   633     Cable Type   3     Jacket Color   black     Type of Certificate   cURus     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   brown, black, blue     No. of bending cycles (C-track)   10 Mio. @ 25 °C     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 insulation   1,25 mm     Outer diameter insulation   1,25 Shore D     Ingredient treeness wire insulation   12.5 Shore D     Ingredient freeness wire insulation   1,25 Shore D     Ingredient freeness wire insulation   1,25 Shore D     Ingredient		
Conformity       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable       Cable identification     633       Cable Identification     633       Cable Type     3       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mio. @ 25 °C       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 tolerance core insulation     ± 5 %       Shore hardness wire insulation     1,25 mm       Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardnesss w		
Product standard DIN EN 61076-2-101 (M12)   Installation   Cable   Cable identification 633   Cable Type 3   Jacket Color black   Type of Certificate cURus   Amount stranding 1   Stranding 3 wires twisted   wire arrangement brown, black, blue   No. of bending cycles (C-track) 10 Mio. @ 25 °C   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 tolerance core insulation 1,25 mm   Outer diameter tolerance core insulation 70 ± 5 Shore D   Ingredient freeness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation 42   Diameter of single wires 0,1 mm   Conductor crosssection (wire) 0,34 mm²	Additional condition temperature range	depending on cable quality
Installation   CableCable identification633Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAnount wires3Outer diameter (sheath)± 5 %Shore hardness wire insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient free, cadmium-free, CFC-free, halogen-free, silicone-freeAnount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Conformity	
Cable identification633Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation24Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Product standard	DIN EN 61076-2-101 (M12)
Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation10 ± 5 Shore DIngredient freeness wire insulation10 ± 5 NmOuter diameter freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation10 ± 5 NmOuter diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Installation   Cable	
Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. $@ 25 °C$ Cable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %Duter diameter tolerance core insulation $1,25$ mmOuter diameter tolerance core insulation± 5 %Ingredient freeness wire insulation $70 \pm 5$ Shore DIngredient freeness wire insulation $70 \pm 5$ Shore DIngredient freeness wire insulation $42$ Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Cable identification	633
Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Cable Type	3
Amount stranding   1     Stranding   3 wires twisted     wire arrangement   brown, black, blue     No. of bending cycles (C-track)   10 Mio. @ 25 °C     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 tolerance core 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     Amount wires   3     Outer diameter tolerance core insulation   1,25 mm     Outer diameter tolerance core insulation   1,5 %     Shore hardness wire insulation   45 %     Shore hardness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crosss	Jacket Color	black
Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationI ± 5 %Shore hardness wire insulation42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Type of Certificate	cURus
wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 Mio. @ 25 °C       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 tolerance core insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     10 ± 5 Shore D       Ingredient freeness wire insulation     Iead-free, cadmium-free, CFC-free, halogen-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,34 mm²	Amount stranding	1
No. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Stranding	3 wires twisted
Cable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	wire arrangement	brown, black, blue
Material jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	No. of bending cycles (C-track)	10 Mio. @ 25 °C
Shore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Cable weigth	29,7 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Material jacket	PUR
Outer-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Outer-diameter (jacket)	4,1 mm
Amount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Material wire insulation	PP
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 strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm²	Amount wires	3
Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm <sup>2</sup>	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,1 mm   Conductor crosssection (wire) 0,34 mm <sup>2</sup>	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 0,34 mm <sup>2</sup>	Amount strands (wire)	42
	Diameter of single wires	0,1 mm
Material conductor wire Stranded copper wire, bare	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
	Material conductor wire	Stranded copper wire, bare

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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	6 A
Electrical resistance line constant wire	57 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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
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

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