

## M12 male 0° / M8 female 90° A-cod.

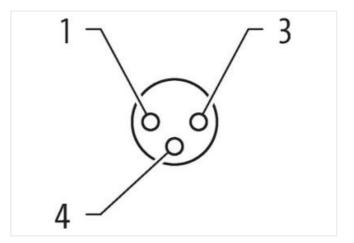
PUR 3x0.25 bk UL/CSA+drag ch. 3m

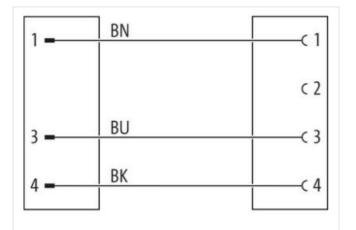
Male straight – female 90° M12 – M8, 3-pole Art-No. 7005 - M12/M8 Lite - (plastic hexagonal screw) on request with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

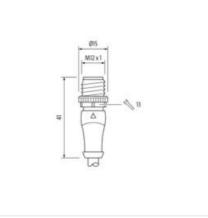
## Link to Product





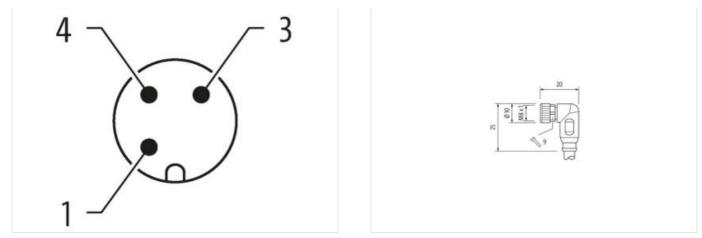






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-17





Product may differ from Image



| Cable length                              | 3 m               |
|---|-------------------|
| Side 1                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Coding                                    | A                 |
| Material                                  | PUR               |
| No. of poles                              | 3                 |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP67              |
| Side 2                                    |                   |
| Tightening torque                         | 0,4 Nm            |
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M8                |
| Thread                                    | M8 x 1            |
| suitable for corrugated tube (internal Ø) | 6,5 mm            |
| Coding                                    | A                 |
| Material                                  | PUR               |
| No. of poles                              | 3                 |
| Width across flats                        | SW9               |
| Degree of protection (EN IEC 60529)       | IP67              |
| 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          |

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| ETMA 5.0     ECON1655       conterms Lanff Frumbur     65544500       GTM     44827316033       Packaging und     1       Electrical data Suppy        Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (LL-Inted)     30 V       Operating voltage AC (LL-Inted)     30 V       Operating voltage Contex.     4 A       Device protection Flexifiel     Additional condition protection degree       Additional condition protection degree     inserted.screwed       Polution Degree     3       Rates targe voltage Const-11     1       Mechanical data [Material data     Cooper altry       Coating boking     Cooper altry       Coating boking     Nickelad       Coating boking methol     reset  | ECLASS-12.0                              | 27060311   |
|---|--|--|
| GTM 4048379160933   Paokaging unit 1   Depresing voltage AC max. 60 V   Operating voltage AC inst. 60 V   Operating voltage AC (U. telad) 30 V   Christing voltage EC (U. telad) 30 V   Device protection   Electrical Additional condition protection degree   Additional condition protection degree 3   Ratid surge voltage 3   Ratid surge voltage EC (U. telad) 1   Mechanical data   Material data 5K V   Costing Insuring Coperating voltage EC (MAL)   Costing Insuring Coperating voltage EC (MAL)   Costing Insuring Coperating voltage EC (MAL)   Material approximation Zinc dia casting  | ETIM-5.0                                 | EC001855   |
| Packaging unit     1       Electrical data [Supply     Image: Comparity wilding AC max.     90 V       Operating wilding AC max.     90 V     Image: Comparity wilding AC max.     90 V       Operating wilding CC UL-islated)     30 V     Image: Comparity wilding CC UL-islated)     Image: Comparity wilding CC UL-islated)       Device protection I Electrical     Image: Comparity wilding CC UL-islated)     Image: Comparity wilding CC UL-islated)       Additional confident protection drops     Image: Comparity wilding CC Comparity     Image: Comparity Wilding CC Comparity       Material group (IEC 60664-1)     1     Image: Comparity     Image: Comparity       Coaling Doubling     Comparity wilding CC Comparity     Image: Comparity     Image: Comparity       Coaling Doubling     Nicklated     Image: Comparity     Image: Comparity       Coaling Doubling     Image: Comparity     Image: Comparity     Image: Comparity       Material group comparity     Image: Comparity     Image: Comparity     Image: Comparity       Material group comparity     Tmage: Comparity     Image: Comparity   | customs tariff number                    | 85444290   |
| Electrical data   Supply       Operating voltage AC max.     50 V       Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage DC (UL-listed)     4 A       Device protection   Electrical     A       Additional control protection served     5       Patted argo voltage CG doSt-1     1       Mechanical data   Material data     Control poralization       Control poralization and argo voltage CG doSt-1     1       Mechanical data   Material data     Cooperator       Control poralization and argo voltage CG doSt-1     1       Mechanical data   Material data     Cooperator       Control poralization and argo voltage CG doSt-1     1       Mechanical data   Material data     Nockeld       Control poralization and argo voltage CG doSt-1     1       Mechanical data   Material data     Nockeld       Control poralization and argo voltage CG doSt-1     1       Mechanical data   Material data     FA   | GTIN                                     | 4048879160933  |
| Operating voltage AC max.50 VOperating voltage AC (UL-listed)30 VOperating voltage AC (UL-listed)30 VOperating voltage AC (UL-listed)30 VCorrent operating per contact max.4 ADevice protection [ElectricalInserted, screwedPolitation Dagree3Rated surge voltage1.5 kVMaterial group (EC 66064-1)1Mechanic dataInserted, screwedCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludMetrial gaskelFKMLocking metrialZine die castingMetrial gaskelFKMLocking metrialZine die castingMetrial gaskelFKMCoating forting dataInserted, screwed, Sheing protectionMetrial screw connectionZine die castingMetrial screw connectionZine die castingMetr  | Packaging unit                           | 1  |
| Operating voltage AC max.50 VOperating voltage AC (UL-listed)30 VOperating voltage AC (UL-listed)30 VOperating voltage AC (UL-listed)30 VCorrent operating per contact max.4 ADevice protection [ElectricalInserted, screwedPolitation Dagree3Rated surge voltage1.5 kVMaterial group (EC 66064-1)1Mechanic dataInserted, screwedCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludCoating foctingNickeludMetrial gaskelFKMLocking metrialZine die castingMetrial gaskelFKMLocking metrialZine die castingMetrial gaskelFKMCoating forting dataInserted, screwed, Sheing protectionMetrial screw connectionZine die castingMetrial screw connectionZine die castingMetr  |  |  |
| Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Current operating bot Coll-Listed)     30 V       Current operating bot collscit     4 A       Device protection   Electrical     A       Addinard condition protection degree     isserted, screwed       Polinion protection   Electrical     A       Material group (EC 60664-1)     1       Material group (EC 60664-1)     1       Material group (EC 60664-1)     1       Material group (EC 606664-1)     1       Cating to thing material     Zin cle casting       Material scew connection     Zin cle casting       Material scew connection     Resef 0       Contomity  |  | 50 V   |
| Operating vorlage AC (UL-listed)     30 V       Operating vorlage AC (UL-listed)     30 V       Current operating per contact max.     4 A       Device protection   Electrical        Additional condition protection degree     inserted, screwed       Polizion Degree     3       Rated surpe voltage     1.5 KV       Material group (IEC 06064-1)     1       Mechanical data Material data     Contern bousing       Contern bousing     Copper alloy       Coating tocking     Copper alloy       Coating tocking     Copper alloy       Coating tocking     Nickeled       Coating tocking allow     FKM       Locking and filing     nickel plated       Material gasket     FKM       Locking and filing     Zine die-casting       Material gasket     Interfect, screwed, Shaking potection       Environmental characteristics   Climatic     Commity       Operating imperature max.     25 °C       Operating imperature max.     25 °C       Caster forth     Device tandmax       Device tandmax     Diff No 50°C > 2-101 (M12), DIN EN 610°F > 2-114 (M8)  |  |  |
| Operating voltage DC (UL listed)     30 V       Current operating per contact max.     4 A       Additional condition protection degree     inserted, screwed       Policion Degree     3       Rated surge voltage     1.5 kV       Material group (EC 60664-1)     1       Mechanical data   Material data     Coating housing       Coating housing     Coper alloy       Coating housing     Zinc die-casting       Material asket     FKM       Locking material     Zinc die-casting       Material asket     FKM       Locking material     Zinc die-casting       Material asket     S °C       Operating temperature max.     65 °C       Operating temperature max.     65 °C       Additional condition temperature max.     65 °C       Contornity     Product stander       Product stander     DIN EN 61076-2-114 (M8)       Inseletolification     630   |  |  |
| Current operating per contact max.     4 A       Device protection   Electrical   |  |  |
| Device protection   Electrical       Addition condition protection degree     inserted, screwed       Pollation Degree     3       Rated surge voltage     1,5 kV       Material group (EC 60664-1)     I       Material group (EC 60664-1)     Inc die casting       Material group (EC 60664-1)     Inc die casting       Material group (EC 606764-1)     Inc die casting       Material group (EC 606764-1)     25 °C       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature max.     95 °C       Conformit     UN No 1076-2-101 (M12), DIN EN 61076-2-114 (M6)       Insela and a   |  |  |
| Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (IEC 60664-1) 1   Material group (IEC 60664-1) Nickoled   Coating locking Nickoled   Coating locking Nickoled   Coating locking Nickoled   Material group (IEC 60664-1) Zino die-casting   Material screw connection Sino die-casting   Mounting method Inserted', screwed, Shaking protection   Ervironmental characteristics (Climatic Gomethod   Departing temperature max. 25 °C   Casting temperature max. 630   Cable   |  |  |
| Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (E0 6084-1) 1   Mechanical data   Material data Coating on the filte Source S |  |  |
| Rates surge voltage     1,5 kV       Material group (IEC 6064-1)     I       Mechanical data [Material data     Coating nosing     Copper alloy       Coating nosing     Nickoled     Coating nosing     Coating nosing       Coating nosing     Nickoled     Coating nosing     Reserve constraints       Material gasket     FKM     FKM     Coating nosing     Reserve constraints       Material gasket     Inter die-casting     Material gasket     FKM       Material screw connection     Zinc die-casting     Material screw constraints     Reserve constraints       Mechanical data [Mouning data     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     Conternity       Product standard     DIN EN 61076-2-114 (M12), DIN EN 61076-2-114 (M8)     Inserted.       Material gasket     CUBus     Cable identification     630       Cable identification     630     Cable identification     Cable identification       Type of Cartificate     CUBus  |  | · · · · · · · · · · · · · · · · · · ·                          |
| Material group (IEC 60664 1)   I     Mechanical data   Material data     Coating locking   Copper alloy     Coating locking   Nickeled     Coating locking   Cate of e-casting     Material screw connection   Zinc die-casting     Mounting method   inserted, screwed, Shaking protection     Environmenial characteristics   Climatic   Operating temperature max.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Contomity   Inseltation   Cable     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Inseltation   Cable   Color     Cable Type   3     Jacket Color   black     Type of Cartificate   CURus     Amount stranding   1     Stranding   S wires twisted     Wire arangement   brown, black, blue     No. or bending cycles (C-track), blue  |  | -  |
| Mechanical data     Copper alloy       Coating floxing     Nickeled       Coating fling     nickeled       Coating fling     nickeled       Material gasket     FKM       Locking material     Zine die-casting       Material gasket     FKM       Mechanical data   Mounting data     Mechanical data   Mounting data       Mechanical data   Mounting data     Inserted, screwed. Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C     Operating temperature max.     B5 °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 dentification     630     Cable dentification     Cable dentification       Cable dentification     630     Cable dentification     Site dentification       Ype of Certificate     cURus     Amount stranding     1       Vire arrangement     brown, black,  |  | 1,5 kV   |
| Coating housing     Copper alloy       Coating tocking     Nickeled       Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zirc die-casting       Material screw connection     Zin die-casting       Mechanical data Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Contormity     Environmental characteristics   Climatic       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installion   Cable     Cable Type       Cable Type     3       Jacket Color     Black       Type of Certificate     cURus       Anount stranding     1       Stranding     3 wires twisted       Wire arrangement     brown, black, blue       No. of bending cycles (C-track)     10 MIN. @ 25 °C       Cable weigh     25 & 4 g/m       Material jacket     9 LS   |  | 1  |
| Coating locking   Nickeled     Coating of fitting   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data  | Mechanical data   Material data          |  |
| Coating of fitting   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   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   Contomity     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   Installation   Cable     Cable fype   3   Cable fype   3     Jacket Color   black   Type of Certificate   cURus     Amount stranding   1   Stranding   swires twisted     wire arrangement   brown, black, blue   Stranding   Swires twisted     No. ot bending cycles (C+track)   10 Mis. @25 °C   Cable type   Cable type     Share hardness jacket   90 ± 5 Shore A   Freedom from ingredents (jacket)   End-4 grim     Material jacket   PUR   Shore hardness jacket   90 ± 5 Shore A   Freedom from ingredentes (jacket)   End-4 grim   | Coating housing                          | Copper alloy   |
| Material gasket     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Inscrew connection     Zinc die-casting       Material screw connection     Zinc die-casting       Material screw connection     Conternation       Environmental characteristics   Climatic     Comparing temperature max.       Operating temperature max.     65 °C       Additional condition temperature range     depending on cable quality       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable Type       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 weight     26,4 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A  | Coating locking                          | Nickeled   |
| Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Commental 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), DIN EN 61076-2-114 (M8)     Installation   Cable   Cable identification     Cable identification   630     Cable identification   630     Cable identification   630     Cable 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 weigh   26.4 g/m     Material jacket   PUR     Shore A   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer diameter (sheath)   ± 5 % <tr< td=""><td>Coating of fitting</td><td>nickel plated</td></tr<>  | Coating of fitting                       | nickel plated  |
| Material screw connection     Zinc die-casting       Mechanical data   Mounting data     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature man.     85 °C  | Material gasket                          | FKM  |
| Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic  | Locking material                         | Zinc die-casting   |
| 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), DIN EN 61076-2-114 (M8)       Installation   Cable        Cable identification     630       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     26.4 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       Armou   | Material screw connection                | Zinc die-casting   |
| Environmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.65 °CAdditional condition temperature rangedepending on cable qualityConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable inflication630Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 g/mMaterial jacketPULRShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4,1 mmTolerance outer diameter (skeath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter insulation± 5 %   | Mechanical data   Mounting data          |  |
| Operating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable qualityConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification630Cable identification630Cable Identification630Cable ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4,1 nmTolerance outer diameter (sheath)± 5 %Material javies3Outer diameter (sheath)± 5 %Material wire insulationPPAmount stress3Outer diameter tolerance core insulation± 5 %   | Mounting method                          | inserted, screwed, Shaking protection                          |
| Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Conformity   Installation   Cable     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable   630     Cable identification   640     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   26,4 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 S   | Environmental characteristics   Climatic |  |
| 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   630     Cable identification   630   Cable identification     Cable Identification   630   Cable Identification     Jacket Color   black   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Type of Certificate   cURus   Cable Identification     Amount stranding   1   Stranding   1     Stranding   3 wires twisted   Wire arrangement   brown, black, blue     No. of bending cycles (C-track)   10 Mio. @ 25 °C   Cable weigth   26, 4g/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 (jacket)   ± 5 %   Shore Marchal wire insulation   PP     Amount wires   3   Outer diameter (jacket)   E 5 %   | Operating temperature min.               | -25 °C   |
| ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification630Cable identification630Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 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 (jseath)± 5 %Amount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %   | Operating temperature max.               | 85 °C  |
| Product standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification630Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26.4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4.1 mmColter-diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter (sheath)± 5 %   | Additional condition temperature range   | depending on cable quality                                     |
| Installation   CableCable identification630Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulation1,25 mmOuter diameter tolerance core insulation± 5 %  | Conformity                               |  |
| Cable identification630Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26.4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-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 %   | Product standard                         | DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)              |
| Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Amount wires3Outer diameter insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %   | Installation   Cable                     |  |
| Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Amount wires3Outer diameter insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %   | Cable identification                     | 630  |
| Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %  |  |  |
| Amount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %  | Jacket Color                             | black  |
| Amount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %  | Type of Certificate                      | cURus  |
| wire arrangementbrown, black, blueNo. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 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 %   | Amount stranding                         | 1  |
| No. of bending cycles (C-track)10 Mio. @ 25 °CCable weigth26,4 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %   | Stranding                                | 3 wires twisted  |
| Cable weigth26,4 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %   |  | 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %   | 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 insulation1,25 mmOuter diameter tolerance core insulation± 5 %   | Cable weigth                             | 26,4 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 %  | 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 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 %   | 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 %   | Outer-diameter (jacket)                  | 4,1 mm   |
| Amount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %  | Tolerance outer diameter (sheath)        | ±5%  |
| Outer diameter insulation 1,25 mm   Outer diameter tolerance core insulation ± 5 %  | Material wire insulation                 | PP   |
| Outer diameter tolerance core insulation ±5%  | Amount wires                             | 3  |
|   | Outer diameter insulation                | 1,25 mm  |
| Shore hardness wire insulation 70 ± 5 Shore D   | Outer diameter tolerance core insulation | ±5%  |
|   |  |  |

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| Ingredient freeness wire insulation                     | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
|---|--|
| Amount strands (wire)                                   | 32   |
| Diameter of single wires                                | 0,1 mm   |
| Conductor crosssection (wire)                           | 0,25 mm <sup>2</sup>   |
| Material conductor wire                                 | Stranded copper wire, bare                                     |
| Conductor type (wire)                                   | strand class 6   |
| Traversing distance (C-track)                           | 10 m @ 25 °C   horizontal                                      |
| Current load capacity (standard)                        | to DIN VDE 0298-4  |
| Current load capacity min. wire                         | 4,5 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                              |
| 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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