

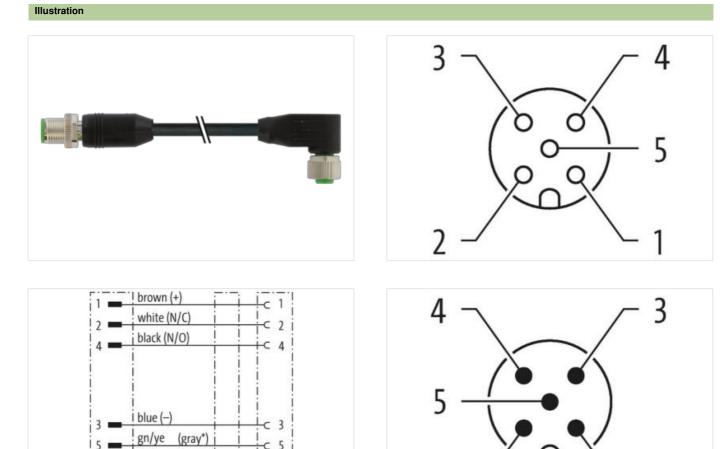
2

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

PUR 5x0.34 shielded bk UL/CSA+drag ch. 7.5m

Male straight - female 90° M12 - M12, 5-pole shielded Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

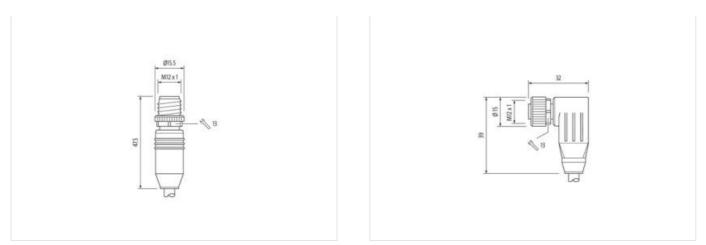


The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

shield

(\* for cable type 203, 603, 243, 643)





Product may differ from Image



Cable length	7,5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
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	4048879559133
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V

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Cynamia ordina AC (UL-lated)0.0Operating voltage AC (UL-lated)30 VOperating voltage AC (UL-lated)30 VCorrent operating rows ordinations4 AInstallation I ConnectionM12 x 1Device protection RecificalM12 x 1Device protection Recifical15 XVAddrenal condition protection device3 SRelating sour (UE 60664-1)1Nechanical data15 XVMaterial group (UE 60664-1)1Nechanical dataNechanical dataMechanical dataNechanical dataMaterial group (UE 60664-1)1Nechanical dataNechanical dataNechanical dataNechanical dataMechanical dataNechanical data </th <th>Operating voltage DC max.</th> <th>60 V</th>	Operating voltage DC max.	60 V
Operating yorksp. DC. (LL-steed)         30 V           Current operating per contact max.         4 A           Installation (Concection         Hall X 1           Device protection (Extrical         Installation (Concection)           Addition at contact max.         9 Reading at the second of the secon		
Current operating per context max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         M12 x 1           Mechanical Gate         1,5 kV           Mechanical Gate         W10.4           Mechanical Gate         Gating Gate           Canting Coling         Nickel pated           Material prove connection         Zinc die casting           Material prove connection         Zinc die casting           Material connectoristics   Climatic         Concerning Contexterning           Coperating temperature max.         85 °C           Additional Contexterning         depending on cable quality           Important Installetion notes         Note the connectors by suitable measures from mechanical Gate, e.g. by the usage of cable ise.           Nate		
Institution   Connection           Mouring set         M2 x 1           Device protection   Exetrical         Inserted, sorewed           Polition Digros         3           Readi surge solution protection degree         Inserted, sorewed           Material group (EC 60064-1)         I           Hechanical data         Inserted, sorewed           Control for compath has         without           Hechanical data         Without           Control for compath has         without           Control for compath has         Noteled           Control for compath has         Protection           Material strem connection         Zon die casting           Material strem connection         Zon die casting           Mounting method         Noteled           Coperating temperature man.         25 %3           Coperating temperature man.         25 %3           Coperating regime has the P protection class cas be           Coperating regime has the Castong         Note chan need           Acterton need         Palocet the come		
Mouning set         M12 x 1           Device protection   Electrical         Inserted, sorewed           Additional condition protection degree         3           Rate at supe voltage         1,5 kV           Matisal group (Ele 6064-1)         1           Mechanical data         Velocity           Contour for corrupated hose         Without           Mechanical data         Velocity           Contour for corrupated hose         Without           Mechanical data         Velocity           Contour for corrupated hose         Without           Mechanical data         FMA           Coating of Without         Rest at supe of the contour for corrupated hose           Mechanical data         FMA           Coating of Without         Tore die casting           Metheral asset         FMA           Metheral asset         For Coating           Metheral base or contour to the control to		4 A
Device protection   Electrical           Addinant condition protection degree         inserted, screwed           Pation Dugoe         3           Reader aurge voltage         1.5 kV           Material group (EC 606641)         1           Mechanical data         Inserted, screwed           Contour for corrugated hose         without           Mechanical data         Inserted, screwed           Contour for corrugated hose         without           Mechanical data         Inserted, screwed, Strewed, Strewed		
Additional condition protection degree         isented, screwed           Pallution Degree         3           Rated supp volte C 80684-1)         I           Mechanical data         volte Volte C 80684-1)           Mechanical data         without           Mechanical data         Material data           Control for corrigate hores         without           Mechanical data         Material data           Control for corrigate hores         without           Material gask of target hores         FXM           Material gask of target hore         FXM           Material gask ores         FXM           Material gask ores         FXM           Material gask ores         FXM           Dorating temperature max.         55 °C           Additional condition temperature range         depending on cable quality           Material serve condition cobser the parameters than methanical loads, e.g. by the usage of cable tess.           Note on strain nelled         Portect the conneotors by suitable measures from mechanical loads, e.g. by the usage of cable tess.           Note on strain relled         Portect the conneotors by suitable measures from mechanical loads, e.g. by the usage of cable tess.           Rotation condition         Cable condition         Cable condition           Cable condition <t< td=""><td>Mounting set</td><td>M12 x 1</td></t<>	Mounting set	M12 x 1
Polution Dagree         3           Rated surge voltage         1,5 kV           Material group (ECE 6566k-1)         I           Mechanical data         •           Contour for concigated hose         without           Mechanical data         •           Contain for concigated hose         without           Mechanical data         •           Contain for concigated hose         without           Mechanical data         Material data           Contain for concigated hose         without           Material gatak         FKM           Contain for concigated hose         incel plated           Material gatak         FKM           Contain good fating         incel plated           Material screw connection         Zinc die-ceating           Mounting method         inserted, screwed, Shaking protection           Environmental cheracteristics   Climatic         Operating tomeprature max.           Operating tomeprature max.         85 °C           Additional condition temporature range         degeerding on cable quality           Important installation notes         Herteristic Plate the connection by suitable measures from mechanical loads, e.g. by the usage of cable fee.           Note on strain relief         Potect the connection by suitable measures from mech	Device protection   Electrical	
Rate d surge voltage         1.5 kV           Material group (EC 6064-1)         I           Mechanical data         Voltage           Contour for corrugated hose         without           Mechanical data   Material data         Voltage           Coaling of fifting         nickele Jated           Coaling of fifting         nickele Jated           Material gasket         FXM           Locking method         Zino die-casting           Methodical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature min.         -25 °C         Operating temperature max.         85 °C           Additional condition temperature max.         85 °C         Operating temperature max.         85 °C           Vise on barding radius         Attention: Observe the premissible bending radii when kiying cables, as the IP protection class can be endangered by excessive bending forces.         Installation of C2           Cable of triffication         642         Cable Stallation (Cable         Cable Stallation (Cable           Cable of triffication         642         Cable Stallating (coverage)         80 %	Additional condition protection degree	inserted, screwed
Material group (IEC 80684-1)         I           Mechanical data         Vibut           Contour for corrugated hose         without           Mechanical data         Vibut           Coating looking         Nickeled           Coating looking         Nickeled           Coating of filing         mickel plated           Material gask         FKM           Looking material         Zinc die-casting           Material sack         FKM           Mechanical data         Jinc die casting           Mechanical data         Jinc die casting           Mechanical data         Houring material           Doraling temperature main.         25 °C           Operating temperature main.         25 °C           Operating temperature max.         85 °C           Additional condition temperature may.         depending on cable quality           Important installation notes         Mote on strain relef           Note on strain relef         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation ( Cable         Attention: Obegase the protection class can be ending radiu when laying cables, as the IP protection class can be endangered by excessive bending lorces.           Installation ( Cable         Deack           Type of Co	Pollution Degree	3
Mechanical data         without           Contour for corrugated hoses         without           Coating locking         Nickleid           Coating locking         Nickleid           Coating locking         nicklei plated           Coating locking         Zinc die-casting           Material screw connection         Zinc die-casting           Metrial screw connection         Sinc die-casting           Metrial screw connection set screwed, Shaking protection         Sinc die-casting           Operating temperature main         depending on cable quality           Mortan installation notes         Sinc die-casting formerature main           Note on bending radius         Attention: Cobserve the permissible bending radii when laying cables, as is fie IP protection cla	Rated surge voltage	1,5 kV
Contour for corrugated hose         without           Rechanical data   Material data         Coading of finds         Nickele Date           Coading of finds         Nickele Dated         Material gaskot         PKM           Loading material         Zinc dio casting         Material gaskot         PKM           Material gaskot         Zinc dio casting         Material strew connection         Tic dio casting           Material strew connection         Zinc dio casting         Material strew connection         Tic dio casting           Material strew connection         Sinc dio casting         Material strew connection         Tic dio casting           Material strew connection         Sinc dio casting of titluty         Mounting method         Inserted, strewed, Straking protoction           Environmental characteristics   Climatic         Comparing temperature min.         25 °C         Operating temperature min.         25 °C           Operating temperature man.         45 °C         Since Comparing temperature mans.         85 °C           Additional condition temperature rang.         Attertion: Observe the permissible bending radii when laying cables, as the IP protection class can be anding or able quality         Imparterial transmiterial protection class can be divide foreas.           Isolation   Cable         Cable Type         3         Sicadion Type         3 <td< td=""><td>Material group (IEC 60664-1)</td><td></td></td<>	Material group (IEC 60664-1)	
Mechanical data   Material data           Coating of htting         Nickeled           Coating of htting         nickel plated           Material gaskal         FKM           Locking material         Zinc die-casiing           Material gaskal         KFM           Mounting method         inserted, screwed, Shaking protection           Extransitional characteristics   Climatic	Mechanical data	
Caling locking         Nickeled           Cading of fitting         nickel plated           Metrical gasted         FKM           Locking material         Zinc die casting           Material ascrew connection         Zinc die casting           Material ascrew connection         Zinc die casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics (Climatic         Inserted, screwed, Shaking protection           Environmental characteristics (Climatic         Geparating temperature min.           -25 °C         Operating temperature max.           Additional condition temperature range         depending on cable quality           Important installation notes         Attention: Observe the permissible bending radii when laying cables, as the IP protection diass can be endangered by excessive bending forces.           Installation (Cable         Cable Glorafit fiction           Cable Glorafit fiction         642           Cable Type         3           Jacket Color         black           Type of Certificate         cDFUs           Amount stranding         1           Stranding         5 wise around Core filter twisted           Cable shielding (toverage)         80 %           Banding         Floece, Foil	Contour for corrugated hose	without
Caling locking         Nickeled           Cading of fitting         nickel plated           Metrical gasted         FKM           Locking material         Zinc die casting           Material ascrew connection         Zinc die casting           Material ascrew connection         Zinc die casting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics (Climatic         Inserted, screwed, Shaking protection           Environmental characteristics (Climatic         Geparating temperature min.           -25 °C         Operating temperature max.           Additional condition temperature range         depending on cable quality           Important installation notes         Attention: Observe the permissible bending radii when laying cables, as the IP protection diass can be endangered by excessive bending forces.           Installation (Cable         Cable Glorafit fiction           Cable Glorafit fiction         642           Cable Type         3           Jacket Color         black           Type of Certificate         cDFUs           Amount stranding         1           Stranding         5 wise around Core filter twisted           Cable shielding (toverage)         80 %           Banding         Floece, Foil	Mechanical data   Material data	
Coating of filting         nickel plated           Material gasket         FKM           Locking material         Zinc die-casting           Material serve connection         Zin die-casting           Mechanical data [ Mounting data         Inserted, serveved, Shaking protection           Environmental characteristics [ Climatic         Coperating temperature max.           Operating temperature max.         85 °C           Additional condition temperature mape         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 radiu when laying cables, as the IP protection class can be endagered by excessive bending forces.           Installation   Cable         Cable identification           Cable identification         642           Cable identification         642           Cable identification         642           Cable identification         5 wires around Core filter twisted           Cable shielding (type)         copper braid, tinned           Cable	·	Nickolod
Material gasket         FKM           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data		
Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature main.         -25 °C           Operating temperature max.         85 °C         Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes         Important installation notes           Note on strain relief         Protect the connectors by suitable measures from machanical loads, e.g. by the usage of cable tiles.           Note on strain relief         Protect the connectors by suitable measures from machanical loads, e.g. by the usage of cable tiles.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be on adargeerd by excessive bonding forces.           Istallation   Cable         Cable forpe           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Armount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (coverage)         80 %           Barding         Fleece, Foll           Filler <td< td=""><td></td><td>•</td></td<>		•
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 range         depending on cable quality           Important installation notes         Moute 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.         Installation   Gable           Cable identification         642         Gable identification         642           Cable identification         642         Gable identification         Gable         Gable           Stranding         1         Stranding         1         Stranding         1           Stranding         5 wires around Core filler twisted         Gable sheldling (type)         opper braid, tinned           Cable sheldling (type)         opper braid, tinned         Gable sheldling (coverage)         80 %         Stranding           Banding         Fleece, Foil         Filler         yes         weis arangement	-	
Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Construction           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature may         depending on cable quality           Important Installation notes         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending tradition (Cable Cable Upper Det V) excessive bending forces.           Installation   Cable         Cable identification           Cable identification         642           Cable shielding (type)         copper braid, tinned           Cable shielding (type)         copper braid, tinned           Cable shielding (type)         copper braid, tinned </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           Important installation notes         Attention condition temperature range           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Cable identification           Cable identification         642           Cable identification         642           Cable identification         642           Cable Color         black           Type of Cortificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (type)		
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Motion temperature max.           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.           Installation   Cable         Cable identification           Cable identification         642           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Armount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (overage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, green yellow           Cable weigh         57.2 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A <td></td> <td></td>		
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature mage         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable forp           Cable forp         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, green-yellow           Cable weigh         57.2 g/m           Material jacket         PUR           Shore hardmess jacket         90 ± 5 Shore A           Freedom from ingred	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         Cable identification         642           Cable identification         642         Cable identification         642           Cable Color         black         Type of Catflicate         CURus           Amount stranding         1         Stranding         Stranding         Stranding           Stranding         5 wires around Core filler twisted         Cable shelding (overage)         80 %           Banding         Filece, Foil         Filer         yes           wire arrangement         brown, black, blue, white, green-yellow         Cable weigth         57.2 g/m           Material jacket         PUR         Shore A         Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Cuter-diameter (jacket)         5.6 mm	Environmental characteristics   Climatic	
Additional condition temperature range         depending on cable quality           Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.           Installation   Cable         Cable identification           Cable identification         642           Cable Identificate         clRus           Type of Certificate         clRus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable weigth         57.2 g/m           Material jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         5.6 mm           Tolerance outer (jacket)         5.7 S           Outer diameter (sheath)         ± 5 %           Atterial jacket         PP           Anount wires         5	Operating temperature min.	-25 °C
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.           Installation   Cable         Cable forces.           Cable identification         642           Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, green-yellow           Cable weigth         57.2 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         5.6 mm           Tolerance outer diameter (jacket)         5.6 mm           Tolerance outer diameter (jacket)         5.6 mm           Tolerance outer diameter (jacket)         5.8 mm <td>Operating temperature max.</td> <td>85 °C</td>	Operating temperature max.	85 °C
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.           Installation   Cable         Cable identification         642           Cable Type         3         Jacket Color         black           Type of Certificate         cuRus         Attention: Operating the second context of the second cont	Additional condition temperature range	depending on cable quality
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.           Installation   Cable         Cable identification         642           Cable Type         3         3           Jacket Color         black         1           Type of Certificate         cURus         4           Amount stranding         1         1           Stranding         5 wires around Core filler twisted         6           Cable shielding (type)         copper braid, tinned         6           Cable shielding (coverage)         80 %         8           Banding         Fleece, Foil         Filler           wire arrangement         brown, black, blue, white, green-yellow         6           Cable weigth         57.2 g/m         1           Material jacket         PUR         1           Shore hardness jacket         90 ± 5 Shore A         1           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         0           Outer diameter (jacket)         5.6 mm         1         1         25 %           Material wire insulation         PP         2         3         3	Important installation notes	
Installation   Cable         Cable identification       642         Cable identification       642         Cable Type       3         Jacket Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       5 wires around Core filler twisted         Cable shielding (type)       copper braid, tinned         Cable shielding (coverage)       80 %         Banding       Fleece, Foil         Filler       yes         wire arrangement       brown, black, blue, white, green-yellow         Cable weigth       57.2 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)       5,6 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       5         Outer diameter insulation       1,25 mm	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Cable identification642Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding5 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57.2 g/mMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)1ead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter (sheath)1,25 mm	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.
Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding5 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Installation   Cable	
Jacket ColorblackType of CertificatecURusAmount stranding1Stranding5 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)± 5 %Material wire insulationPPAmount wires5Outer diameter (insulation1,25 mm	Cable identification	642
Type of CertificatecURusAmount stranding1Stranding5 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)1ead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Amount wires5Outer diameter insulationPPAmount wires5Outer diameter insulation1,25 mm	Cable Type	3
Amount stranding1Stranding5 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Jacket Color	black
Stranding5 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Type of Certificate	cURus
Cable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57.2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm		1
Cable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Stranding	5 wires around Core filler twisted
BandingFleece, FoilFilleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Cable shielding (type)	copper braid, tinned
Filleryeswire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Cable shielding (coverage)	80 %
wire arrangementbrown, black, blue, white, green-yellowCable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Banding	Fleece, Foil
Cable weigth57,2 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Filler	yes
Material jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	wire arrangement	brown, black, blue, white, green-yellow
Shore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Cable weigth	57,2 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Material jacket	PUR
Outer-diameter (jacket)5,6 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires5Outer diameter insulation1,25 mm	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       5         Outer diameter insulation       1,25 mm	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount wires     5       Outer diameter insulation     1,25 mm	Outer-diameter (jacket)	5,6 mm
Amount wires     5       Outer diameter insulation     1,25 mm	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,25 mm	Material wire insulation	PP
	Amount wires	5
Outer diameter tolerance core insulation     ± 5 %	Outer diameter insulation	1,25 mm
	Outer diameter tolerance core insulation	± 5 %

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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>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	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	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	5 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min

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