

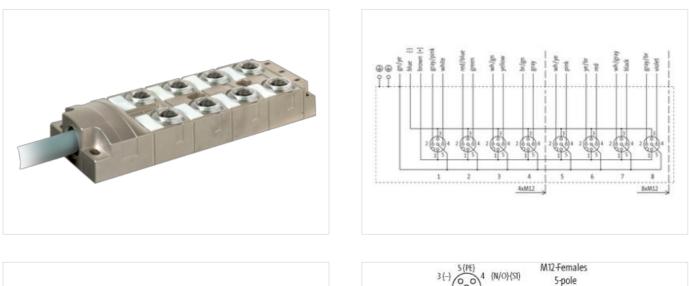
## MVP-METALL, 8XM12, 5POLE, PRE-WIRED CABLE

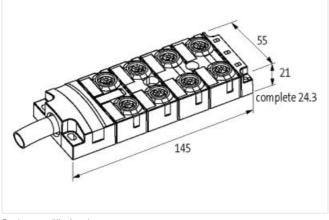
15.0m PUR 16x0,5+3x1,0, UL/CSA

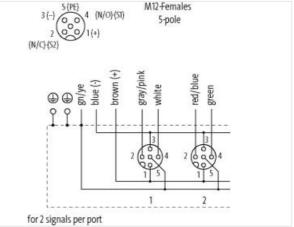
8-way, 5-pole Without LED for analog signals up to 48 V AC/DC 15.0 m Further cable lengths on request. Replaces identical product (Art.No. 27499)

## Link to Product

Illustration







Product may differ from Image



Commercial data		
ECLASS-6.0	27279219	
ECLASS-6.1	27279219	
ECLASS-7.0	27279219	
ECLASS-8.0	27279219	
ECLASS-9.0	27440108	

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: 2024-05-08

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ECASS-11.1         27440106           ECASS-12.0         27440106           ECASS-12.0         27440106           ECASS-12.0         27440106           ECASS-12.0         ECO20266           calons tuff number         44943793197           Paosagrup unit         1           Etectrical data I Supply         Corrent operating or onduct max.           Operating voltage AG max.         48 V           Corrent operating or onduct max.         4A           Installation   Connection         Max 1           Device protection   Electrical         Corrent operating mort max.           Device protection   Electrical         Max 1           Device protection   Electrical         Corrent operating mort max.           Maxtan Daving         Necked           Maxtan Daving         Necked           Maxtan Daving         Schaubgewinde           Environmental characteristics   Climatu         Corrent operating mort max.           Operating temperature max.         60 °C           Additional Contin Temperature max.         60 °C           Operating temperature max.	ECLASS-10.1	27440108
ECA.85 12027.440.09ETM-5.0ECO.258.05Contoms tuff number86.44.250GTIN40.4827351.937Packaging unit1Electrical data [SupplyOperating values AG max.48 VCorrent operator per contact max.48 VUniting setM12 x 1Device protection [ElectricalMunding setM12 x 1Device protection [ElectricalDevice protection [ElectricalMaterial functionDevice protection [ElectricalDevice pr		
ETM 6.0         ECM02985           customs taiff number         8544290           GTN         4048732851967           Packaging und         1           Electrical data [Supply            Operating voltage AC max.         48 V           Operating voltage Comac.         48 V           Control operating voltage or offact max.         4 A           Installion [Connection         Mark 1           Device protection [Electrical            Device protection [Electrical            Device protection [Electrical            Marking and Double            Cataling Nouning         Nickeled           Marting mather            Operating tomparature min.         -26 °C           Operating tomparature min.         -26 °		
customs tariff number         85444280           GTN         404877351987           Packaging unit         1           Electrical data [Supply            Operating voltage AC max.         48 V           Carrent operating per contact max.         4A           Installation [Connection         Mile X 1           Device protection [Electrical            Device protection [Electrical            Restination [Connection         Mile X 1           Device protection [Electrical            Machanic dista [Moterial data            Casting monthal         Nackeled           Material housing         Nackeled           Mouring method         Schraubgewinde           Environmental characteristics [Climatic         Concerting temperature max.           Operating temperature max.         90 °C           Cable isoffication         452           Schraubgewinde         Schraubgewinde           Environmental characteristics [Climatic         Guination confication           Operating temperature max.         90 °C           Cable isoffication         452           Schraubgewinde         Schraubgewinde           Envinontran tranding (type 2)         1 <tr< td=""><td></td><td></td></tr<>		
GTN     404807831997       Packaging unit     1       Electrical and Supply        Operating voltage AC max.     48 Y       Operating voltage AC max.     48 V       Corrent operating recorrect max.     4 A       Installation   Connection        Mounting sett     M12 x 1       Device proceeding lectrical        Device proceeding lectrical        Device proceeding lectrical        Celling housing     Nickaled       Machanical data   Mounting data        Mounting method     Sobraubgewinde       Environmental characteristics   Climatic        Operating temperature max.     90 °C       Additional condition tomperature grage     depending on cable quality       Installation   Condition tomperat		
Packaging unit         1           Electrical statis [Supply         Image: Comparing on packaging units and the statistical on comparing packaging units and the statistical on comparing packaging units and the statistical on comparison packaging units and the statistical on the		
Electrical data   Supply         Operating voltage DC max.         48 V           Current operating oper contact max.         4A           Insulation   Connection         Mil 2x 1           Device oprediction   Electrical         Mil 2x 1           Device oprediction   Electrical         Mil 2x 1           Carrent operating oper contact max.         Mil 2x 1           Device oprediction   Electrical         Mil 2x 1           Carlen flocaling operating (Electrical         Mil 2x 1           Carlen flocaling operating (Electrical         Mil 2x 1           Carlen flocaling operating (Electrical         Mil 2x 1           Mechanical data   Material data         Mil 2x 1           Carlen flocaling operating (Electrical         Mil 2x 1           Mechanical data   Material data         Mil 2x 1           Carlen flocaling operating (Elemptical data)         Mil 2x 1           Machanical data   Material data         Stranubgewinde           Depreting temperature min.         95 °C           Operating temperature max.         90 °C           Additional condition temperature may         99 °C           Additional con		
Operating voltage AC max.         48 V           Operating voltage DC max.         48 V           Current operating per contact max.         4 A           Installation   Connection         Mourting set         M12 x 1           Device protection   Electrical         Device protection   Electrical         Device protection   Electrical           Device protection   Electrical         No.		
Operating vorlage DC max.         44 V           Current overaling per contact max.         4 A           Installation (Connection         Mounting set         M12 x 1           Device protection   Electrical         Person (PPS, PPS, PPS, PPS, PPS, PPS, PPS, PPS		
Current operating per centext max.         4 A           Installation   Connection         Mi2 x 1           Device protection   Electrical         Degree of protection (EN IEC 60529)         IP65, IP67, IP68           Mechanical data   Moetrial data         Coating housing         Nickeled           Cataling housing         Zinc die-casting         Mechanical data   Mounting data           Mounting method         Schraubgewinde         Environmetal characteristics   Climatic           Environmetal characteristics   Climatic         Generating temperature min.         -25 °C           Operating temperature min.         -25 °C         Operating temperature max.         90 °C           Additional condition temperature ranze.         90 °C         Generating temperature max.         90 °C           Cable Identification interpretature ranze         depending on cable quality         Installation   Cable         Cable Identification         452           Stranding         1         Stranding         1         Stranding         Stranding         Stranding         Stranding         Stranding         Stranding         Stranding (type 2)         12 wires counter rotating twisted         Empriprice to the stranding (type 2)         12 wires counter rotating twisted         Empriprice to the stranding (type 2)         12 wires counter rotating twisted         Empriprice to the stranding (type 2)		
Installation   Connection         Mul2 x 1           Device protection   Electrical         Perside protection (EW EC 60829)         IP65, IP67, IP68           Mechanical data   Material data         Mickeled         IP68, IP67, IP68           Mechanical data   Material data         Mickeled         IP61, IP61, IP61, IP61, IP61, IP61, IP61, IP67, IP68           Mechanical data   Material data         Mickeled         IP61, I		
Munting set         M12 x 1           Degree of protection   Electrical         Febs, P67, P68           Dechanical data   Material data         Febs, P67, P68           Mechanical data   Material data         Couling housing         Nickeled           Material housing         Zinc die casting         Material housing           Mechanical data   Mounting data         Schraubgewinde         Term (Since Casting)           Mounting method         Schraubgewinde         Schraubgewinde           Doparating temporature min.         -25 °C         Oporating temporature min.         -25 °C           Oporating temporature min.         -25 °C         Oporating temporature min.         -25 °C           Oporating temporature min.         -25 °C         -0         -0           Oporating temporature min.         -25 °C         -0	Current operating per contact max.	4 A
Device protection [Electrical         IP65, IP67, IP68           Cacting housing         Nickeled           Cacting housing         Nickeled           Material housing         Zino dia casting           Mechanical data [Mauring data         Schraubgewinde           Environmental characteristics [Climatic         Schraubgewinde           Environmental characteristics [Climatic         -25 °C           Operating temperature max.         90 °C           Additional condition temper	Installation   Connection	
Degree of protection (EN IEC 60529)         IP85, IP67, IP68           Mechanical data   Material data           Coading housing         Nickeled           Mechanical data   Mouring data         Zinc die-casting           Mechanical data   Mouring data         Schraubgewinde           Environmental characteristics   Climatic         Constitution           Operating temperature min.         -25 °C           Operating temperature max.         90 °C           Additional condition temperature may.         depending on cable quality           Installion I Cable         Control of the schematical data   Mauring data           Schemating of the schematical data   Mauring data         Schematical data   Mauring data           Additional condition temperature max.         90 °C           Cable identification         452           Cable Identification         452           Cable Identification         1           Stranding         7 wises around Core filler twisted           Amount stranding (type 2)         1         2           Stranding (type 2)         1         2           Barding         Fileece         2           Filer         yes         3         3           Operating temperature max.         94 ± 5 Shore A         2         3 <td>Mounting set</td> <td>M12 x 1</td>	Mounting set	M12 x 1
Mechanical data   Material data           Casting housing         Nickeled           Material housing         Zin cile-casting           Mechanical data   Mounting method         Schraubgewinde           Mounting method         Schraubgewinde           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature max.         90 °C         Operating condition temperature max.         90 °C           Additional condition temperature max.         90 °C         Operating condition temperature max.         90 °C           Additional condition temperature max.         90 °C         Operating condition temperature max.         90 °C           Additional condition temperature max.         90 °C         Operating temperature max.         90 °C           Additional condition temperature max.         90 °C         Operating temperature max.         90 °C           Additional condition temperature max.         90 °C         Operating temperature max.         90 °C           Additional condition temperature max.         90 °C         Additional condition temperature max.         Parket Condition temperature max.           Append Certificate         CUBN         Anount stranding or temperature max.         Parket Condition temperature max.           Armount stranding (type 2)         1         Eviros c	Device protection   Electrical	
Coating housing         Nickeled           Material housing         Zinc die-casting           Mounting method         Schraubgewinde           Environmental characteristics [ Climatic         Coperating temperature max.         90 °C           Additional condition temperature max.         90 °C         Additional condition temperature max.           Additional condition temperature max.         90 °C         Additional condition temperature max.           Dable identification         452         Additional Color           Cable identification         452         Additional Color           Type of Certificate         cURus         Amount stranding           Amount stranding         1         Stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Gene ength         231 g/m         Additoral decee         Amount stranding (type 2)         12 wires counter-rotating twisted	Degree of protection (EN IEC 60529)	IP65, IP67, IP68
Coating housing         Nickeled           Material housing         Zinc die-casting           Mounting method         Schraubgewinde           Environmental characteristics [ Climatic         Coperating temperature max.         90 °C           Additional condition temperature max.         90 °C         Additional condition temperature max.           Additional condition temperature max.         90 °C         Additional condition temperature max.           Dable identification         452         Additional Color           Cable identification         452         Additional Color           Type of Certificate         cURus         Amount stranding           Amount stranding         1         Stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Stranding (type 2)         12 wires counter-rotating twisted         Amount stranding (type 2)         1           Gene ength         231 g/m         Additoral decee         Amount stranding (type 2)         12 wires counter-rotating twisted		
Material housing         Zinc die-casting           Mechnical data   Mounting data           Mounting method         Schraubgewinde           Environmental characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature max.         90 °C         Additional condition temperature range         depending on cable quality           Installation   Cable         Cable identification         452           Cable identification         452           Jacket Color         gray           Type of Certificate         CURus           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1 2 wires counter-rotating twisted           Banding         Fleace           Filler         yes           wire arrangement         gray-pink. brown-green, weller, gray, blue, brown-gray, black, gray-while, red, brown-gray, black, gray-while, red, brown-green, yellow, pink, yellow-white, green, red-blue, while, forown-gray, black, gray-while, red, brown-green, yellow, pink, yellow-white, green, red-blue, while, forown-gray, black, gray-while, red, brown-green yellow, pink, yellow-white, green, red-blue, while, forown-gray, black, gray-while, red, brown-green yellow, pink, yellow-white, green, red-blue, while, forown-gray, black, gray-while, red, brown-green yellow, pink, yellow-white, green, red-blue, while, forown-gray, black, gray-while, red, brown-green yellow, tolet)     <		Niekolod
Mechanical data   Mounting data           Mounting method         Schraubgewinde           Environmental characteristics   Climatic         Operating temperature min.         -25 °C           Operating temperature man.         90 °C         Additional condition temperature range         depending on cable quality           Installation   Cable         Cable identification         452         Cable identification         452           Jacket Color         gray         Type of Cartificate         CURus         Cable identification         452           Amount stranding         1         Stranding (type 2)         1         Stranding (type 2)         1           Stranding (type 2)         1         1         Stranding (type 2)         1         Stranding (type 2)         1           Wrie arrangement         yes         gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, violat)         Cable weigth         231 g/m           Material jacket         PUR         Shore Aaf-free, camium-free, CFC-free, halogen-free         South diameter (jacket)         11,5 mm           Tolerande (gacket)         14.5 Shore A         South diameter (jacket)         14.5 Shore A         South diameter (jacket)         14.5 Shore A         South diameter (jacket)         15 %         South diameter (jacket)		
Mounting method         Schraubgewinde           Environmental characteristics   Climatic         25 °C           Operating temperature min.         -25 °C           Additional condition temperature ranze         depending on cable quality           Installation         452           Zable identification         452           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         1 vires around core filler twisted           Banding         Fleece           Filler         yes           wire arrangement         gray-pink, brow-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-green, yellow, pink, yellow,		
Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         90 °C           Additional condition temperature range         depending on cable quality           Installation   Cable         Cable identification           Cable identification         452           Jacket Color         gray           Type of Certificate         oURus           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding         Fileece           Filler         yes           wire arrangement         gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-greay, black, gray-white, free           Filer         yes           wire arrangement         gray-file, gray, blue, brown, green-, red-blue, white, (brown-gray, black, gray-white, red, brown-greay, black, gray-	Mechanical data   Mounting data	
Operating temperature min.       -25 °C         Operating temperature max.       90 °C         Additional condition temperature range       depending on cable quality         Installation   Cable	Mounting method	Schraubgewinde
Operating temperature max.         90 °C           Additional condition temperature range         depending on cable quality           Installation   Cable         Cable identification           Cable identification         452           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding (type 2)         1           Stranding (type 2)         1 2 wires counter-rotating twisted           Banding         Fleece           Filler         yes           wire arrangement         gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)           Cable weigth         231 g/m           Material jacket         PUR           Shore hardness jacket         94 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         11,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material avire insulation         1,6 mm           Outer diameter loaneator         ± 5 %           Shore hardness wire insulation         1,6 mm           Outer diameter loaneator         5 ± 5	Environmental characteristics   Climatic	
Additional condition temperature range       depending on cable quality         Installation   Cable       Cable identification         Gable identification       452         Jacket Color       gray         Type of Certificate       cURus         Amount stranding       1         Stranding       7 wires around Core filler twisted         Amount stranding (type 2)       1         Stranding (type 2)       12 wires counter-rotating twisted         Banding       Fleece         Filier       yes         wire arrangement       gray, blue, brown-green, yellow, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)         Cable weigth       231 g/m         Material jacket       PUR         Shore hardness jacket       94 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cAdmium-free, CFC-free, halogen-free         Outer diameter (sheath)       ± 5 %         Material wire insulation       TPE-E         Amount wires       16         Outer diameter (sheath)       ± 5 %         Material wire insulation       1.6 mm         Outer diameter insulation       1.6 mm         Outer diameter insulation       1.6 mm <tr< td=""><td>Operating temperature min.</td><td>-25 °C</td></tr<>	Operating temperature min.	-25 °C
Installation   Cable           Cable identification         452           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         1 2 wires counter-rotating twisted           Banding         Fleece           Filler         yes           wire arrangement         gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)           Cable weigth         231 g/m           Material jacket         PUR           Shore hardness jacket         94 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         11,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         TPE-E           Amount wires         16           Outer diameter insulation         1,6 mm           Outer diameter insulation         5 ± 5 Shore D           Ingredient treeness wire insulation         5 ± 5 Shore D           Ingredient	Operating temperature max.	0° 00
Cable identification452Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding7 wires around Core filler twistedAmount stranding (type 2)1Stranding (type 2)12 wires counter-rotating twistedBandingFleeceFilleryeswire arrangementgray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)Cable weigth231 g/mMaterial jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)11,5 mmTolerance outer diameter (scelt)11,5 mmTolerance outer diameter (scelt)1,6 mmOuter diameter insulationTPE-EAmount wires16Outer diameter insulation55 ± 5 Shore DIngredient fereness wire insulation55 ± 5 Shore DIngredient treness wire insulation16 %Shore hardness wire insulation16 %Outer diameter insulation1,6 mmOuter diameter insulation55 ± 5 Shore DIngredient treness wire insulation16 %Shore hardness wire insulation16 %Shore hardness wire insulation16 %Conductor crosssection (wire)0,5 mm²	Additional condition temperature range	depending on cable quality
Jacket Color       gray         Type of Certificate       cURus         Amount stranding       1         Stranding       7 wires around Core filler twisted         Amount stranding (type 2)       1         Stranding (type 2)       1 secce         Filler       yes         wire arrangement       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, wink, yellow-white, gray, blue, brown, green-yellow, violet)         Cable weigth       231 g/m         Material jacket       PUR         Shore hardness jacket       94 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer diameter (jacket)       11,5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wires       16         Outer diameter insulation       1,6 mm         Outer diameter tolerance core insulation       5 ± 5 Shore D         Ingredient freeness wire insulation       15 ± 5 Shore D         Ingredient freeness wire insulation       16 ± 5 ± 5 Shore D         Ingredient freeness wire insulation       16 ± 5 ± 5 Shore D         Ingredient freeness wire insulation       16 ± 5 ± 5 Shore D         Ingredient freeness wire insulation       16 ± 5 ±	Installation   Cable	
Type of Certificate       cURus         Amount stranding       1         Stranding       7 wires around Core filler twisted         Amount stranding (type 2)       1         Stranding (type 2)       12 wires counter-rotating twisted         Banding       Fleece         Filler       yes         wire arrangement       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown; green-yellow, violet)         Cable weigth       231 g/m         Material jacket       PUR         Shore hardness jacket       94 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer diameter (jacket)       11,5 mm         Tolerance outer dameter (sheath)       ± 5 %         Material wire insulation       TPE-E         Amount wires       16         Outer diameter tolerance core insulation       1,6 mm         Outer diameter tolerance core insulation       5 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cFC-free, halogen-free, LABS-free         Amount wires       64         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,5 mm²   <	Cable identification	452
Amount stranding1Stranding7 wires around Core filler twistedAmount stranding (type 2)1Stranding (type 2)12 wires counter-rotating twistedBandingFleeceFilleryeswire arrangementgray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)Cable weigth231 g/mMaterial jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11.5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $55 \pm 5$ Shore DIngredient freeness wire insulation $55 \pm 5$ Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeOuter diameter tolerance core insulation $55 \pm 5$ Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Jacket Color	gray
Stranding       7 wires around Core filler twisted         Amount stranding (type 2)       1         Stranding (type 2)       12 wires counter-rotating twisted         Banding       Fleece         Filler       yes         wire arrangement       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)         Cable weigth       231 g/m         Material jacket       PUR         Shore hardness jacket       94 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer-diameter (jacket)       11,5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       TPE-E         Amount wires       16         Outer diameter insulation       1,6 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       164         Diameter of single wires       <	Type of Certificate	cURus
Amount stranding (type 2)1Stranding (type 2)12 wires counter-rotating twistedBandingFleeceFilleryeswire arrangementgray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)Cable weigth231 g/mMaterial jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulation55 ± 5 Shore DIngredient freeness wire insulationkead-free, CFC-free, halogen-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Amount stranding	1
Stranding (type 2)       12 wires counter-rotating twisted         Banding       Fleece         Filler       yes         wire arrangement       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)         Cable weigth       231 g/m         Material jacket       PUR         Shore hardness jacket       94 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer-diameter (jacket)       11,5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       TPE-E         Amount wires       16         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       16.         Outer diameter frees wire insulation       56 ± 5 Shore D         Ingredient freeness wire insulation       64         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,5 mm²	Stranding	7 wires around Core filler twisted
Banding       Fleece         Filler       yes         wire arrangement       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)         Cable weigth       231 g/m         Material jacket       PUR         Shore hardness jacket       94 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer-diameter (jacket)       11,5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       TPE-E         Amount wires       16         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, CFC-free, halogen-free, LABS-free         Amount strands (wire)       64         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,5 mm²	Amount stranding (type 2)	1
Filleryeswire arrangementgray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)Cable weigth231 g/mMaterial jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeMuterial wire insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Stranding (type 2)	12 wires counter-rotating twisted
wire arrangementgray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)Cable weigth231 g/mMaterial jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Banding	Fleece
wile analyticyellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)Cable weigth231 g/mMaterial jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Filler	yes
Material jacketPURShore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Guter diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	wire arrangement	
Shore hardness jacket94 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation± 5 %Quter diameter tolerance core insulation± 5 %Shore hardness wire insulation± 5 %Ingredient freeness wire insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Cable weigth	231 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter tolerance core insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Material jacket	PUR
Outer-diameter (jacket)11,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Shore hardness jacket	94 ± 5 Shore A
Tolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires16Outer diameter insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free
Material wire insulationTPE-EAmount wires16Outer diameter insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Outer-diameter (jacket)	11,5 mm
Amount wires16Outer diameter insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mmConductor crosssection (wire)0,5 mm²	Material wire insulation	TPE-E
Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, CFC-free, halogen-free, silicone-free, LABS-free         Amount strands (wire)       64         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,5 mm²	Amount wires	16
Shore hardness wire insulation       55 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, CFC-free, halogen-free, silicone-free, LABS-free         Amount strands (wire)       64         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,5 mm²	Outer diameter insulation	1,6 mm
Ingredient freeness wire insulation       lead-free, CFC-free, halogen-free, silicone-free, LABS-free         Amount strands (wire)       64         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,5 mm²	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire)     64       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,5 mm²	Shore hardness wire insulation	55 ± 5 Shore D
Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,5 mm²	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free, LABS-free
Conductor crosssection (wire) 0,5 mm <sup>2</sup>	Amount strands (wire)	64
	Diameter of single wires	0,1 mm
Traversing distance (C-track)5 m @ 25 °C	Conductor crosssection (wire)	
	Traversing distance (C-track)	5 m @ 25 °C

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: 2024-05-08

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Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Data)	TPE-E
Outer diameter wire insulation (Data)	2,1 mm
Tolerance outer diameter wire insulation (data)	±5%
Shore hardness wire insulation (Data)	55 ± 5 Shore D
Ingredient freeness wire insulation (Data)	lead-free, halogen-free, silicone-free, LABS-free
Amount wires (Data)	3
Amount strands wire (Data)	128
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	1 mm <sup>2</sup>
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Max. rated voltage (conductor - conductor)	300 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	5,9 A
Current load capacity min. Wire (Data)	15 A
Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electrical resistance coating wire (Data)	20 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	90 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	90 °C
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	8 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	5 Mio. @ 25 °C
Connection type 2	
Family construction form	free cable end
No. of poles	16
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	A
No. of poles	5
PIN 1	+
PIN 2	NC S 2
PIN 3	-
PIN 4	NO S 1
PIN 5	PE

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