

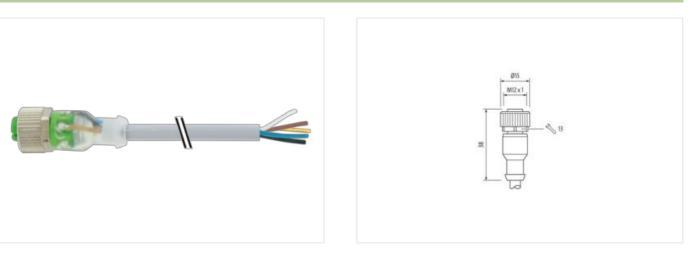
## M12 female 0° A-cod.with cable 3LED

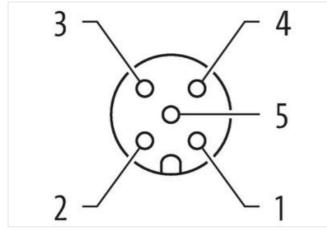
PUR 5x0.34 gy UL/CSA+drag ch. 7.5m

Female straight M12, 5-pole 3× LED (PNP) Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration





BN 1> WH 2) BK WH GN  $\nabla I_{f} \nabla I_{f}$ BU 3 **GN YE** 5 7

Product may differ from Image



7,5 m

0,6 Nm

Cable length

Side 1

Tightening torque

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: 2024-06-26

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Family construction form	M12
Thread	M12 x 1
Coding	Α
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, 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
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879538145
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, white, yellow
	groon, mino, jonon
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical leader a grip with usage of cable fire
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 addressed by successing banding forces
Conformity	endangered by excessive bending forces.
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	

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Cable Indentification         235           Cable Color         9439           Sched Color         9439           Type of Certificate         cJRus           Amount stranding         1           Stranding         5 wires around Core lifer twisted           Filer         yee           Wire arrangement         brown, black, blue, white, grown yellow           Cable weigh         41.6 pm           Material jacket         PUIA           Stron hardness jackel         91.5 Shore A           Stron hardness jackel         91.5 Shore A           Stron hardness jackel         92.5 Shore A           Outer-diameter (acket)         4.8 mm           Collar ance under direction (acket)         4.8 mm           Outer diameter (acket)         4.5 %           Material wire insulation         PP           Arnount twines         5           Store hardness wire insulation         1.5 %           Noter diameter insulation         1.5 %           Control diameter insulation         1.5 %           Control diameter insulation         1.5 %           Control diameter insulation         1.4 % mm           Control diameter insulation         1.5 %           Control diameter insulation	wire arrangement	brown, black, blue, white, green-yellow
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Filler         yes           wires arrangement         brown, black, blue, white, green-yellow           Cable weight         41.8 gm           Material Jack         PUR           Shore hardness jacket         50.2 5 Shore A           Freedom from ingredents (jacket)         45 %           Material Jack         PUR           Shore hardness jacket         50.2 5 Shore A           Tolerance outer diameter (insultion         4.8 mm           Tolerance outer diameter (insultion         1.25 mm           Outer diameter insultation         1.25 mm           Outer diameter insultation         1.25 mm           Outer diameter insultation         70.2 5 Shore D           Ingredent freeness wire insultation         70.2 5 Shore D           Ingredent freeness wire insultation         70.2 5 Shore D           Ingredent freeness wire insultation         70.1 5 Shore D           Ingredent freeness wire insultation         70.2 5 Shore D           Ingredent freeness wire insultation         70.2 5 Shore D           Ingredent freeness wire insultation         70.2	Cable identification	235
Type of Certificatio         U/Rus           Amount stranding         1           Stranding         5 wises around Core filler twisted           Filler         yes           wise arrangement         brown, black, blue, white, green-yellow           Cable weigh         41,8 g/m           Material jacket         PUR           Shore hardness jacket         00,5 Shore A           Freedom from ingredients (gacket)         48 mm           Calar weigh (gacket)         4.8 mm           Calar area outer (anweiter (gheath)         4.8 mm           Calarance outer diameter (gheath)         5 %           Material tww insulation         PP           Amount wises         5           Outer diameter (gheath)         1.5 %           Material www insulation         70 ± 5 Shore D           Shore hardness wire insulation         1.25 rm           Outer diameter tolerance orie insulation         1.25 rm           Amount strands (yeire)         42           Diameter of single wires         0,1 nm           Conductor crossection (wire)         0.44 mm²           Material conductor wire         Branded coper wire, bare           Constructor type (wire)         stranded coper wire, bare           Constructor wire	Cable Type	3
Arnout stranding       1         Stranding       5 wires around Core filler twisted         Filler       yes         wire arrangement       brown, black, blue, white, green-yellow         Cable weight       41 å g/m         Material jacket       PUR         Stroe hardnoss jackat       90 ± 5 Shore A         Freedom from ingredients (jacket)       4.8 mm         Tolerance outer diameter (jacket)       4.8 mm         Tolerance outer diameter (jacket)       1.25 mm         Outer diameter insulation       1.25 mm         Outer diameter insulation       1.25 mm         Outer diameter insulation       70 ± 5 Shore D         Ingredient freenes wire insulation       70 ± 5 Shore D         Outer diameter insulation       1.25 mm         Outer diameter insulation       1.26 mm         Outer diameter insulation       1.25 mm         Outer diameter insulation       1.26 mm         Outer diameter insulation       1.26 mm         Conductor vises wire insulation       0.1 mm     <	Jacket Color	gray
Stranding         5 wires around Core filler twisted           Filer         yes           wire arangement         brown, black, blue, while, green-yellow           Cable weight         41.8 g/m           Material jacket         PUR           Shore hardness jacket         90.5 Shore A           Freedom from ingredients jacket)         lead-free, cadmium-free, CPC-free, halogen-free, silicone-free           Outer diameter (jacket)         4.8 mm           Order diameter (jacket)         5 %           Material wire insulation         PP           Amount wires         5           Outer diameter tioerance core insulation         1.25 mm           Outer diameter tioerance core insulation         1.25 from           Shore hardness wire insulation         70.5 Shore D           Ingredient freeness wire insulation         1.25 from           Dameter diameter vision wire insulation         1.25 mm           Conductor rowssection (wire)         0.34 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor rows         Stranded copper wire, bare           Conductor rows         57.0 km @ 20.0 °C           Current load capacity min. wire         4.5 A           Electrical resistance         Inconstant wire         57.0 km @	Type of Certificate	cURus
Filter         yes           wire arrangement         brown, black, blue, white, green-yellow           Cable weigh         41,8 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredents (jacket)         lead-two, cartinum-free, CPC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4.8 mm           Clearence outer dameter (releants)         1.5 %.           Material wire insulation         1.25 mm           Outer diameter insulation         1.25 mm           Conductor arossection (wire)         0.34 mm <sup>3</sup> Diameter of single wires         0.1 mm           Conductor arossection (wire)         0.34 mm <sup>3</sup> Material conductor wire         Stranded copper wire, bare           Conductor arossection (wire)         0.34 mm <sup>3</sup> Conductor aros aros (wire)         3.54 Mm <sup>3</sup> Conductor aros wire insulation         to DIN VDE 0298-4           Current load capacity (max mire)         2.5 kV @ 60 s           P	Amount stranding	1
wire arrangement         brown, black, blue, white, green-yellow           Cable weight         41,8 grm           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         4.8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         PP           Amount wires         5           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.24 S mm           Torgetaint freeness wire insulation         1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Marout Stands (wire)         42           Diameter of single wires         0.1 mm           Conductor (vise)         0.34 mm²           Conductor (vise)         sirand class 6           Nominal voltage AC max.         300 V           Current load capacity (stand or)         to DN VDE (288-4           Current load capacit	Stranding	5 wires around Core filler twisted
Cable weigh         41,8 g/m           Material jacket         PUR           Shore hardmoss jackit         90 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         4.8 mm           Tolerance outer diameter (sheath)         4.5 %.           Material wire insulation         PP           Amount wires         5           Outer diameter tolerance core insulation         1.25 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Tordentor torses wire insulation         1.24 mm           Conductor transes wire insulation         1.24 mm           Conductor transes wire insulation         1.94 mm           Material conductor wire         Stranded copper wire, bare           Conductor transes wire insulation         0.41 mm           Conductor transe line constant wire         57 Q.km @ 20 °C           Current load capacity min, wire         45 A           Electrical resistance         57 Q.km @ 20 °C           AC withstand voltage (wire - wire)         2.5 kV @ 60 s           Power frequency withs	Filler	yes
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead Aree, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         4.8 mm           Tolerance outer diameter (jacket)         4.8 mm           Tolerance outer diameter (jacket)         4.8 mm           Matoria Wire Insulation         PP           Amount vires         5           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 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 crossection (wire)         0.34 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor vire (wire)         strand class 6           Nominal voltage AG max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (stan	wire arrangement	brown, black, blue, white, green-yellow
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Udter-diameter (jacket)         4,8 mm           Tolerance outer diameter (sheath)         4,5 %.           Matorial wire insulation         PP           Anount wires         5           Outer diameter (location)         1,25 mm           Outer diameter lolarance core insulation         1,25 mm           Outer diameter lolarance core insulation         1,25 mm           Outer diameter (locations)         4 S %.           Shore hardness wire insulation         1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Arnount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm <sup>2</sup> Material conductor wire         Stranded dopper wire, bare           Conductor crosssection (wire)         0,34 mm <sup>2</sup> Carrent load capacity (sindardr)         to DIN VDE 0289.4           Current load capacity (sindardr)         to DIN V	Cable weigth	41,8 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,8 mmTolarance ure (jacket)4,8 mmTolarance ure (jacket)5 %Material wire insulationPPAmount wires5Outer diameter iolerance core insulation1,25 mmOuter diameter tolerance core insulation70 ± 5 % %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulation1ead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crossection (wire)0,34 mm²Material conductor wireStrand class 6Nominal voltage AC max.300 VCurrent load capacity min. wire4,5 AElectrical resistance line constant wire57 $\Delta$ Km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 80 sPower frequency withstand voltage (wire - 2,5 kV @ 80 sPower frequency withstand voltage (wire - 2,5 kV @ 80 sPower frequency withstand voltage (wire)2,5 kV @ 80 sMin. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)28 °COndow of yoles (Standon -related testingGascine resistanceGood, application-related testingGascine resistanceGood, application-related testingGascine resistanceGood, application-related testingGascine resistanceGood, application-related testingGascine resistanceGood, appli	Material jacket	PUR
Outer-diameter (jacket)         4,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Materia Wrie Issulation         PP           Amount wires         5           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter (bearance oce insulation         ± 5 %           Shore hardness wire insulation         16 % %           Shore hardness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor vice (wire)         0,34 mm²           Material conductor wire (wire)         0,34 mm²           Conductor vice (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0280-4           Current load capacity (stand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (state)         -40 °C           Max. operating temperature (state)	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) $\pm$ 5 %Material Wre insulationPPAmount Wres5Outer diameter insulation1,25 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Shore hardness wire insulation $125$ mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulationlead/rec, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor rossection (wire)0.34 mm²Material conductor wireStranded copper wire, bareConductor torsessection (wire)0.34 mm²Material conductor wireStranded copper wire, bareConductor vire (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - 2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature (static)-40 °CMax. operating temperature (static)-25 °C <t< td=""><td>Freedom from ingredients (jacket)</td><td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td></t<>	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 insulation         70 ± 5 Shore D           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         125 %m           Amount strand (wire)         42           Diameter of single wires         0,1 mm           Conductor rossescion (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Gurent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Gurent load capacity (standard)         to DIN VDE 0298-4           Gurent load capacity (standard)         to DIN VDE 0298-4           Gurrent load capacity (standard) <td>Outer-diameter (jacket)</td> <td>4,8 mm</td>	Outer-diameter (jacket)	4,8 mm
Amount wires       5         Outer diameter insulation       1.25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       10 ± 5 Shore D         Ingredient freeness wire insulation       lead-tree, cadmium-free, CFC-tree, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0.1 mm         Conductor crosssection (wire)       0.34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       0.34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Imgredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Current toad capacity (standard)         to DIN VDE 0298-4           Current toad capacity (standard)         to DIN VDE 0298-4           Current toad capacity (wire - wire)         2,5 kV Ø 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV Ø 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation	Material wire insulation	PP
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0.34 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wine)         2.5 kV @ 60 s           Power frequency withstand voltage (wire - intermine)         2.5 kV @ 60 s           Power frequency withstand voltage (wire - intermine)         2.5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -25 °C           Operating temperature min. (dynamic)         02 °C	Amount wires	5
Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0.1 mm           Conductor orisesection (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         2.5 kV Ø 60 s           Power frequency withstand voltage (wire - 2.5 kV Ø 60 s         Power frequency withstand voltage (wire - 2.5 kV Ø 60 s           Min: operating temperature (statc)         -40 °C         Max. operating temperature (statc)           Max. operating temperature (statc)         -40 °C         Max. operating temperature (statc)           Operating temperature (statc)         -40 °C         Max. operating temperature (statc)           Ingredient free esistance         Go.2 (0000 h Operation           Flame resistance         IEC 603322-2 [ UL 1581 § 1090   UL 1581 § 1100 FT2           Ohernical resistance         Go.2 (application-related testing 1 DIN FN2 001-404	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free         Amount strands (wire)       42         Diameter of single wires       0,1 mm         Conductor crossection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         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       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature (static)       -5 °C         Operating temperature min. (dynamic)       -85 °C         Operating temperature min. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resis	Outer diameter tolerance core insulation	±5%
Amount strands (wire)       42         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       57 Ωkm @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - inc.et al.et a	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm³         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (wine - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - ispectation)       2,5 kV @ 60 s         Min. operating temperature (iscd)       40 °C         Max. operating temperature (iscd)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (iscd)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (iscd)       80 °C / 90 °C @ 10000 h Operation         Operating temperature max. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oli resistance       Good, application-related testing <t< td=""><td>Ingredient freeness wire insulation</td><td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td></t<>	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         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)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - isoket)       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       IEC 60332-2-2 IUL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Oil resistance       Good, applica	Amount strands (wire)	42
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Q/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         IEC 60332-2-2 I UL 1581 § 1090   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Oil resistance         Good, application-related testing	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Nio. @ 25 °CTraver sing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2 I UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (dynamic)10 x Outer diameterBending radius (dynamic)10 Mio. @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Traver speed (C-track)3 m's @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (dynamic)10 x Outer diameterNo. of bending radius (dynamic)10 Min. @ 25 °CTraver sig distance (C-track)10 Min. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire4,5 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 Mio. @ 25 °CNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTraversing distance (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire       57 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       5 x Outer diameter         No. of bending cycles (C-track)       10 Mio. @ 25 °C         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Travel speed (C-track)       3 m/s @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         No. of bending cycles (C-track)       10 Nio. @ 25 °C         Traversing distance (C-track)       10 m.@ 25 °C         Travel speed (C-track)       3 m/s @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Current load capacity min. wire	4,5 A
Power frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Nio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)2,5 kV (Ø 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceGood, application-related testingDi v Outer diameterTo No ter diameterBending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		2,5 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceGood, application-related testingDi v Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature min. (dynamic)	-25 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
Oil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)10 m @ 25 °C   horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles2 Mio.Torsion stress± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C   horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min

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: 2024-06-26 Murrelektronik ApS | Alexander Foss Gade 13, 1. | 9000 Aalborg | Fon +45 96 35 06 06 | Fax | shop@murrelektronik.dk | shop.murrelektronik.dk