

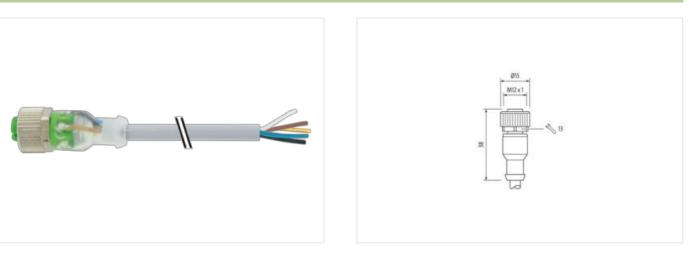
M12 female 0° A-cod.with cable 3LED

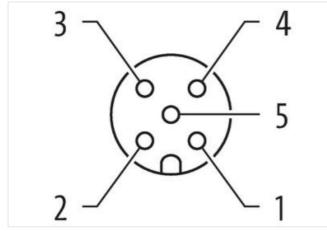
PUR 5x0.34 gy UL/CSA+drag ch. 7.5m

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

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



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 ² 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 ³ Diameter of single wires 0.1 mm Conductor arossection (wire) 0.34 mm ³ Material conductor wire Stranded copper wire, bare Conductor arossection (wire) 0.34 mm ³ Conductor aros aros (wire) 3.54 Mm ³ 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 ² 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 ² Material conductor wire Stranded dopper wire, bare Conductor crosssection (wire) 0,34 mm ² 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 Δ 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 ² 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 ²
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
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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