

## M12 male 90° A-cod. / MSUD valve plug B-10mm

PUR 3x0.75 gy UL/CSA+drag ch. 0.6m

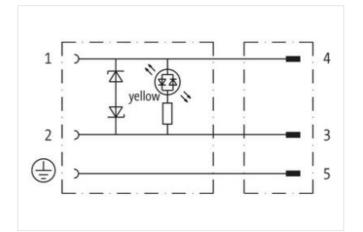
Form B (10 mm) – M12, male 90° 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

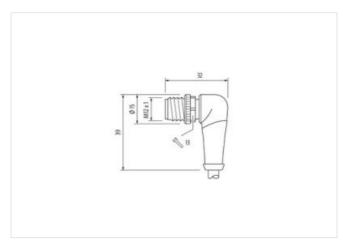
## Link to Product

Illustration









Product may differ from Image



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: 2024-05-15

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl



Thread	МЗ
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Thread	M12 x 1
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
	27270240
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0 ECLASS-8.0	27279218 27279218
ECLASS-0.0 ECLASS-9.0	27060312
ECLASS-3.0 ECLASS-10.1	27060312
ECLASS-10.1 ECLASS-11.1	27060312 27060312
ECLASS-11.1 ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879147286
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	12 mA
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Rated surge voltage	0,8 kV
Mechanical data   Material data	
Color housing	black
Material housing	Plastic
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min. Operating temperature max.	-25 °C 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 loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	

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: 2024-05-15

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl



Cable Type         9           Printing cabor of wire issulation         white (isolation black)           Jacket Cobr         gray           Type of Certificate         cDRus           Amount Standing         1           Stranding         3 wiros twisted           wire arrangement         black 1 black 2, green-yellow           Cable weigh         56,1 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         PUR           Outer diameter (isolabit)         2.5 %           Value diameter (isolabit)         2.5 %           Material jacket         PUR           Shore hardness jacket         90 = 5 Shore A           Freedom from ingradients (acket)         1.8a-7res, candmun-free, CEC-free, halogen-free, silicone-free           Outer diameter insulation         1.85 mm           Toterance outer diameter insulation         1.85 mm           Cuter diameter insulation         1.85 mm           Under diameter insulation         1.85 mm           Fining oot of wire insulation         1.92 ± Shore D           Ingredent free-meas were insulation         1.85 mm           Conductor type         0.75 mm?           Conductor type <t< th=""><th>Cable identification</th><th>236</th></t<>	Cable identification	236
Jacket Color         gray           Type of Carificatio         cURus           Amount stranding         1           Stranding         3 wires wisted           Wrier arrangement         black 1. black 2. graen yullow           Cable weigh         56,1 g/m           Material jacked         PUR           Strane harchese jackel         90,5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1.95 rm           Fining Outer of wire insulation         1.95 rm           Diameter translation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing Outer of wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing Outer of wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing Outer of wire insulation         vire insulation           Cure of taingle wires<	Cable Type	3
Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           Wire arrangement         black 1, black 2, green yellow           Cable weight         56,1 gm           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingedents (jacket)         5,9 mm           Tolerance outer diameter (lacket)         5,8 mm           Tolerance outer diameter (lacket)         5,8 mm           Outer diameter (lacket)         1,8 mm           Outer diameter insulation         PP           Amount wires         3           Outer diameter insulation         1,8 mm           Outer diameter insulation         1,6 mm           Outer diameter insulation         1,6 mm           Outer diameter insulation         1,6 mm           Outer diameter insulation         1,0 mm           Manut strands (wire)         42           Diameter diameter insulation         witte (lacuation black)           Amount strands (wire)         10 m @ 25 °C Introincatal           Conductor type (wire)         Stranded copper wire, DEC           Conductor type (wire)         Stranded copper wire, DEC           Conductor type (wire) <td>Printing color of wire insulation</td> <td>white (isolation black)</td>	Printing color of wire insulation	white (isolation black)
Amount stranding         1           Stranding         3 wires twisted           Wrie arrangement         black 1, black 2, green-yellow           Cable weigh         56,1 g/m           Material jacket         PUR           Shore hardness jackel         90,1 5 Shore A           Freedom from ingredients glackel)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jackel)         5,9 mm           Outer diameter (jackel)         1,5 %           Material wei insulation         1,85 mm           Outer diameter insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolaton black)           Amount strand (wire)         0,15 mm           Conductor crossection (wire)         0,15 mm           Conductor vire         Stranded copper wire, bare           Conductor vir	Jacket Color	gray
Stranding         3 wires hvisted           wire arrangement         black 1, black 2 green-yellow           Cable weigh         6.1 g /m           Material jacket         PUR           Shore hardness jacket         90.1 5 Shore A           Freedom from ingredients (jacket)         6.9 m           Tolerance outer diameter (jacket)         5.9 mm           Tolerance outer diameter (jacket)         5.9 mm           Tolerance outer diameter (jacket)         5.9 mm           Outer diameter insulation         PP           Amount wires         3           Outer diameter insulation         1.85 mm           Outer diameter insulation         white (solation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor processection (wire)         0.75 mm <sup>2</sup> Conductor processection (wire)         0.75 mm <sup>2</sup> Conductor processection (wire)         10 m Ø 25 °C   horizontal           Nominal voltage AC max.         300 V <t< td=""><td>Type of Certificate</td><td>cURus</td></t<>	Type of Certificate	cURus
wire anangement         black 1, black 2, green-yellow           Cable weight         56,1 g m           Material jacket         FUR           Shore hardness jacket         90.5 S Shore A           Freedom from ingredients (jacket)         162 Shore A           Outer diameter (jacket)         5.9 m           Tolerance outer diameter (sheath)         1.5 %           Material jacket         9P           Amount wires         3           Outer diameter insulation         1.85 mm           Outer diameter insulation         70.1 5 Shore D           Ingredient freeness wire insulation         70.2 5 Shore D           Ingredient freeness wire insulation         1.85 mm           Outer diameter insulation         70.2 5 Shore D           Ingredient freeness wire insulation         Wei insulation           Wei insulation         Wei insulation           Viet diameter insulation         Wei insulation           Amount strands (wire)         42           Diameter of single wire         0.15 mm           Conductor type (wire)         Stranded copper wire, bare           Conductor type (wire)         Stranded sop           Tavarsing distance (C+rack)         10 m @ 25 C   Inoretail           Nommal voltage AC max.         300 V     <	Amount stranding	1
Cable weight         S6.1 g/m           Material jacket         PUR           Shore hardness jacket         90.4 S Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.9 mm           Defarace outer diameter (sheath)         5.9 %           Material wire insulation         PP           Amount wires         3           Outer diameter (insulation         1.85 mm           Outer diameter insulation         1.85 mm           Free addiameter insulation         white (isolation black)           Armount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor type (wire)         Strand doase 6           Traversing diatance (C-track)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity min. wire         12 A           Electrical resistance         10 m @ 25 °C	Stranding	3 wires twisted
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter (sheath)         ± 5 %           Material wire insulation         1.85 mm           Outer diameter insulation         1.85 mm           Outer diameter view insulation         1.84 free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of view insulation         1.84 free, cadmium-free, CFC-free, halogen-free, silicone-free           Construct rossescient view insulation         1.85 mm           Conductor view insulation         42           Diameter of single wires         0.15 mm           Conductor view Genetaria         Sinor A           OV V         Strande copper wire, bare           Conductor view         Strande copper wire, bare           Conductor view         Strande copper vier, bare           Conductor view	wire arrangement	black 1, black 2, green-yellow
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter (sheath)         ± 5 %           Material wire insulation         1.85 mm           Outer diameter insulation         1.85 mm           Outer diameter view insulation         1.84 free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of view insulation         1.84 free, cadmium-free, CFC-free, halogen-free, silicone-free           Construct rossescient view insulation         1.85 mm           Conductor view insulation         42           Diameter of single wires         0.15 mm           Conductor view Genetaria         Sinor A           OV V         Strande copper wire, bare           Conductor view         Strande copper wire, bare           Conductor view         Strande copper vier, bare           Conductor view	Cable weigth	56,1 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Attorial wire insulation         PP           Amount Wires         3           Outer diameter insulation         1,85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         tead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         tead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         tead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Conductor free cossescient (wire)         42           Diameter of single wires         0,15 mm           Conductor trossescient (wire)         0,75 mm²           Material conductor wire         Strand dosp 6           Conductor trossescient (wire)         0,75 mm²           Material conductor wire         Strand dosp 6           Conductor trossescient (wire)         0,80 °C / 100°C horzontal           Nominal votage AC max.         300 V	Material jacket	
Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1.85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crossescilon (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C+rack)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standor)         to DIN VDE 0298-4	Shore hardness jacket	90 ± 5 Shore A
Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1.85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crossescilon (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C+rack)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standor)         to DIN VDE 0298-4	-	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)       ± 5 %         Matorial vice insulation       PP         Anount vires       3         Outer diameter insulation       1.85 mm         Outer diameter tolerance acce insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient Thereness wire insulation       Wate Artee, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (solation black)         Amount strands (wire)       42         Diameter of single wires       0.15 mm         Conductor cossesection (wire)       0.75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor tyre (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Dkm @ 20 °C         AC withstand voltage (wire - vire)       2.5 kV @ 60 s         Min. operating temperature (static)       40 °C         Max. operating temperature (static)       40 °C         Max. operating temperature (static)       40 °C         Max. operating temperature (static)       40 °C <tr< td=""><td></td><td></td></tr<>		
Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter folerance core insulation         15 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         164 / Fee, cadmium-free, CFC-free, halogen-free, Silicone-free           Printing color of wire insulation         while (solation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor crossection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire)         2,5 KV @ 60 s           Power frequency withstand voltage (wire - gacket)         2,5 KV @ 60 s           Power frequency withstand voltage (wire - gacket)		±5%
Outer diameter insulation         1.85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient Thereass wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor or sessection (wire)         0.75 mm <sup>2</sup> Outer diameter (strande copper wire, bare         Conductor type (wire)           Stranded copper wire, bare         Conductor type (wire)           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4 <tr< td=""><td>. ,</td><td>PP</td></tr<>	. ,	PP
Outer diameter insulation         1.85 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient Thereass wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor or sessection (wire)         0.75 mm <sup>2</sup> Outer diameter (strande copper wire, bare         Conductor type (wire)           Stranded copper wire, bare         Conductor type (wire)           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4 <tr< td=""><td>Amount wires</td><td>3</td></tr<>	Amount wires	3
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           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0.15 mm           Conductor rossection (wire)         0.75 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           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 (wine - wire)         2.5 kV @ 60 s           Power frequency withstand voltage (wire - iackel)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fix		
Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor vosssection (wire)       9,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity mix-       12 A         Electrical resistance line constant wire       12 A         Electrical resistance line constant wire       25 KV @ 60 s         Power frequency withstand voltage (wire - vire)       2,5 kV @ 60 s         Mir. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Operating temperature (static)       -40 °C         Gasoline resistance       UL 1581 § 1909   IEC 60332-22   U 1581 § 1100 FT2         Chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Gasoline resistance       Good, application-related testi		·
Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       white (isolation black)         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor rossesection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 G.Nm @ 20 °C         AC withstand voltage (wire - vire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - isola set (static))       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Max. operating temperature (static)       -25 °C         Operating temperature max. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1090 IEC 60332-2-2 I UL 1581 § 1100 FT2         Chemical resi		
Printing color of wire insulation       white (isolation black)         Amount strands (wire)       42         Diameter of single wires       0.15 mm         Conductor crossection (wire)       0.75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         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       12 A         Electrical resistance line constant wire       26 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 (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Glane esistance       UL 1581 § 1090   IEC 60332-2-2 / UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Gasoline resistance       DN 2 / 90 °C @         Oil resistance       DN 1404   Good, applicat		
Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - iacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-4041 [Good, application-related testingOil resistanceDIN X Outer diameterEnding radius (fixed)5 × Outer diameterEnding radius (fixed)5 × Outer diameterIrravel speed (C-track)10 Nic. @ 25 °CNo.forsion cycles2 Mio.Torsion stress± 180 °/m		
Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         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       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - a,5 kV @ 60 s       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)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Div LW 60811-404   Good, application-related testing         Oil resistance       Div		
Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - iacket)       25, 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)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1000   IEC 60332-2:2 / UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       DIN EN Ko811-404   Good, application-related testing         Oil resista		
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 Ω/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 (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Goil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius		
Conductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 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 (inc. (dynamic))-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1000   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	. ,	•
Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire22 Ω/Km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMax. 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 resistanceUL 1581 § 1000   EC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingDing radius (fixed)5 × Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 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 (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       UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       DIN EN 60811-404   Good, application-related testing         Oir resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.		
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 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       UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m		·
Current load capacity min. wire12 AElectrical resistance line constant wire26 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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Electrical resistance line constant wire       26 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 (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       UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.		
AC 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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceOIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingDiresistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance       UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 × Outer diameter         Bending radius (dynamic)       10 × Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       10 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 × Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Oil resistance	DIN EN 60811-404   Good, application-related testing
Travel speed (C-track)     10 Mio. @ 25 °C       No. of torsion cycles     2 Mio.       Torsion stress     ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles     2 Mio.       Torsion stress     ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 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: 2024-05-15

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl