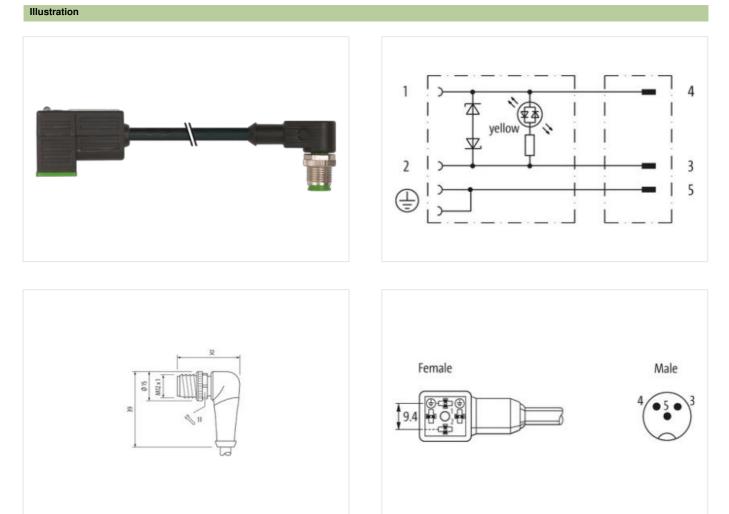


## M12 male 90° A-cod. / MSUD valve plug CI-9.4mm

PUR 3x0.75 bk UL/CSA+robot+drag ch. 2m

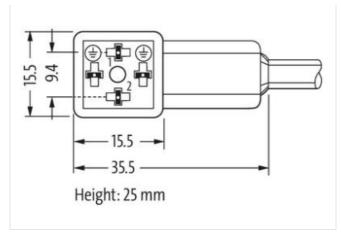
Form CI (9.4 mm) – M12, male 90° 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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: 2024-05-05 Murrelektronik bv | Noorderlaan 147-b9 | B-2030 Antwerpen | Fon +32 (0)380 868 81 | Fax | shop@murrelektronik.be | shop.murrelektronik.be





Product may differ from Image



Cable length	2 m
Side 1	
Tightening torque	0,4 Nm
Thread	M3
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	
ECLASS-6.0	27061801
customs tariff number	85444290
GTIN	4065909097458
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

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## Mechanical data | Material data

Material data     Pleatic       Mouning method     inserted, screwed       Environmental characteristics   Climatic     Environmental characteristics   Climatic       Operating temperature max.     85 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.       Note on bending radius     Attention: Observe the permissible bending radii whon laying cables, as the IP protection dias can be inflangered by excessive bending forces.       Table identification     656       Cable Type     5       Cable Gopting     1       Stranding     1 <th>Mechanical data   Material data</th> <th></th>	Mechanical data   Material data	
Advanchage     Searcled       Wounding nethod     issented, screwed       Environmental characteristics [Climatic     -25 ° C       Operating temperature min.     -25 ° C       Operating temperature max.     85 °C       Additional condition temperature remay     description temperature max.       Machine Londition temperature max.     85 °C       Additional condition temperature max.     Advance of the searce for mechanical loads, e.g. by the usage of cable ties.       Note on train relief     Portexit the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on train relief     Advance of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on train relief     Advance of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on train relief     Advance of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note of conditication     Advance of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       State of Conditication     Searce     Searce       State of Conditication     Searce     Searce       State of Conditication     Searce     Searce	Color housing	black
Mouning method     inserted, soreweld       Environmental obstractions (Clinical Clinical	Material housing	Plastic
Environmental characteristics   Climatic       Operating temperature min.     25 °G       Operating temperature max.     85 °G       Additional condition temperature range     depending on cable quality       Important Installation notes     Materian relief       Note on brain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on brain relief     Attention: Observe the permissible bonding radii when kying cables, as the IP protection class can be ording radii when kying cables, as the IP protection class can be ording radii when kying cables, as the IP protection class can be ording radii when kying cables, as the IP protection class can be ording radii when kying cables, as the IP protection class can be ording radii when kying cables, as the IP protection class can be ording radii when kying cables, as the IP protection class can be ording tradii       Stack Coor     biack       Cable Weigh     S       Maturut standing     1       Stranding     S m @ 25 °C   forteontal       Cable weigh     S4 g m       Material local     PUR       Store handmess gladet     S ± 3 Store D       Freadom Inor ingrodomis (lacku)     Ip 5 %       Store handmess (lacku)     S ± 5 %       Outer dameter (lactare core insulton)     1 7 m	Mechanical data   Mounting data	
Depresing temperature min.     28 °C       Operating temperature may     88 °C       Additional condition temperature range     depending on cable quality       Important installation noise     Context temperature range       Wale on therating relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Installation fCable     Attention: Concerve the permittable bending radiu thera higring cables, as the IP protection class can be endingered by accessive bandring forces.       Table identification     66       Cable Type     5       Station Color     Back A.       Station Color     Back A.       Type of Carling and     CJRus       Annount stranding     1       Type of Carling and     Statis A. State A.       State A. State A.     State A.       Type of Carling and     State A.       Cable Stype     State A.       State A. State A.     State A.       State A. State A.     State A.       State A.     State A.       State A.     State A.       State A.     State A.       State A.     State A.       Carinter S	Mounting method	inserted, screwed
Operating temperature max.     B5 °C       Additional condition temperature range     depending on cable quality       Important Installation notes     Important Installation notes       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 whon laying cables, as the IP protection dass can be endangered by oxesave bending torces.       Installation [Cable     Eacles Tope       Cable identification     656       Cable identification     658       Cable identification     UBus       Annount stranding     1       Stranding     3 wice straid       Wrie arrangement     Black 1, black 2, green-yealtow       Traversing distance (C-track)     5 nr @ 25 °C   horizontal       Cable weight     48.4 g/m       Marinal Jusch     PLP       Traversing distance (C-track)     5 nr @ 25 mm       Teleardon tom ingradients (scket)     5 S/s       Mareal Wire insulation     FP       Arrount wrise     3       Outer diameter (sheath)     15 S/s       Mareal Wire insulation     FP       Arrount wrise <t< td=""><td>Environmental characteristics   Climatic</td><td></td></t<>	Environmental characteristics   Climatic	
Operating temperature max.     B5 °C       Additional condition temperature range     depending on cable quality       Important Installation notes     Important Installation notes       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 whon laying cables, as the IP protection dass can be endangered by oxesave bending torces.       Installation [Cable     Eacles Tope       Cable identification     656       Cable identification     658       Cable identification     UBus       Annount stranding     1       Stranding     3 wice straid       Wrie arrangement     Black 1, black 2, green-yealtow       Traversing distance (C-track)     5 nr @ 25 °C   horizontal       Cable weight     48.4 g/m       Marinal Jusch     PLP       Traversing distance (C-track)     5 nr @ 25 mm       Teleardon tom ingradients (scket)     5 S/s       Mareal Wire insulation     FP       Arrount wrise     3       Outer diameter (sheath)     15 S/s       Mareal Wire insulation     FP       Arrount wrise <t< td=""><td>Operating temperature min.</td><td>-25 °C</td></t<>	Operating temperature min.	-25 °C
Additional condition temperature range     depending on cable quality       Important installation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.       Note on bending radius     Attention: Observe the parmissibile bending radii when laying cables, as the IP protection dias can be endargened by excessive bending forces.       Tablation (Cable     5       Cable trype     5       Standstr Colon     black       Type of Centificate     cURus       Annount stranding     1       Traversing distance (C-rack)     5 m (0.25 rC) horizontal       Cable length     64.4 gm       Material jacket     5 m (0.25 rC) horizontal       Cable weigh     48.4 gm       Material jacket     PUR       Shore hardness jacket     5 m (0.25 rC) horizontal       Cable weigh     48.4 gm       Material jacket     PUR       Shore hardness jacket     PUR       Shore hardness jacket     5 m (0.27 mm)       Cable weigh     5 % S       Fiberober from impredients (jacket)     5 % S       Duar diameter (market)     5 % S       Shore hardness wire insulation     7.1 mm<		
Noise on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cabble fies.       Noise on bonding radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Installation   Cable     Cable inform     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Installation   Cable     Cable inform     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Cable inform     Geo S     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Cable inform     Geo S     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Carle of Carle (Carle)     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Searce and radii permissible bending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii.       Searce and radii permonand radii p	Additional condition temperature range	
Noise on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cabble fies.       Noise on bonding radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Installation   Cable     Cable inform     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Installation   Cable     Cable inform     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Cable inform     Geo S     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Cable inform     Geo S     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Carle of Carle (Carle)     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.     Searce and the permissible bending radii when laying cables, as the IP protection class can be ending radii.       Searce and radii permissible bending radii when laying cables, as the IP protection class can be ending radii when laying cables, as the IP protection class can be ending radii.       Searce and radii permonand radii p	Important installation notes	
Note on bending radius     Attention: Obcarvo the permisable bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation ( Cable     Cable identification     656       Cable identification     656       Cable Type     5       Jacket Colon     black.       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisled       wire arrangement     black 1, black 2, green-yellow       Traversing distance (C-track)     5 m @ 25 °C (Inorizontal       Cable weigh     48.4 q/m       Material jacket     PUR       Shore bndress jacket     58 ± 3 Shore D       Creacedom from ingredients (jacku)     5.2 mm       Tolerance outer diameter (sheath)     ± 5 %       Material vire insulation     PP       Amount wires     3       Outer diameter insulation     PP       Amount wires     3       Outer diameter insulation     1.5 %       Durander diameter (sheath)     ± 3 Shore D       Ingredient freeness wire insulation     1.6 %       Durand diameter insulation	· · · ·	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties
Installation     Installation       Gable identification     666       Cable Type     5       Stacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     1       Traversing distance (C-track)     5 m @ 25 °C   Instrontal       Cable wight     48 4 ym       Material jacket     PUR       Stranding     52 °C   Instrontal       Cable wight     48 4 ym       Material jacket     PUR       Strand traditions     S 8 - 3 Shore D       Freedom from ingredients (jacket)     52 rm       Tolerance outer diameter (stacket)     52 rm       Tolerance outer diameter (stacket)     52 mm       Outer diameter insulation     PP       Amount twise     3       Outer diameter insulation     PP       Amount stranding (wire)     42       Diameter insulation     1.5 rm       Conductor presection (wire)     52 %       Diameter of single wires     0.15 rm       Conductor type (wire)     Stranded copper wire, bare		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Cable identification656Cable Type5Jacket ColorblackUppe of CarliftateCJRusArnout stranding1Stranding3 wires twistedwire arrangementblack 1. black 2, green-yellowTraversing distance (C-track)5 m @ 25 °C   horizontalCable weigth48,4 grinMaterial jackatPURShore hardness jacket58 ± 3 Shore DFreedom from Ingredients (jacket)1ead-tree, cadmium-free, CFC-free, halogen-free, silicone-freeOuter diameter (sheath)± 5 %Material jackwi52 m mTolerance outer diameter (sheath)± 5 %Outer diameter (sheath)± 5 %Shore hardness wire insulation1,7 mmOuter diameter (sheath)± 5 %Shore hardness wire insulation74 ± 3 Shore DDiameter of single wires3Outer diameter wire insulation1,4 Shore DIngredient Ireeness wire insulation74 ± 3 Shore DIngredient Ireeness wire insulation74 ± 3 Shore DIngredient Ireeness wire insulation74 ± 3 Shore DConductor rossection (wire)0,75 mm²Conductor wiresStranded copper wire, bareConductor wireStranded copper wire, bareConductor wireStranded case 6Normal voltage AC max.300 VCurrent Load capacity (standerd)10 NV DE 208-4Current Load capacity (wire)2,5 KV @ 60 sPower fineguency withstand voltage (wire ede)2,5 KV @ 60 sAc wintand voltage (wire <b< td=""><td></td><td>endangered by excessive bending forces.</td></b<>		endangered by excessive bending forces.
Cable Type     5       Jacket Color     black       Npe of Cartificate     cUFus       Manunt stranding     1       Stranding     3 wises twisted       wise arrangement     black 1. black 2. green-yellow       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Cable weight     48.4 gren       Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.2 mm       Orderance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount twices     3       Outer diameter insulation     1.7 mm       Outer diameter insulation     ± 5 %       Shore hardness wire insulation     ± 5 %       Shore hardness wire insulation     ± 5 %       Outer diameter weight wires     0.15 mm       Conductor torsses wire insulation     ± 3 Shore D       Conductor torsses wire insulation     1.7 mm       Outer diameter insulation     1.7 mm       Conductor to	· ·	
Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Cable weigh     48,4 g m       Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     52 °C   horizontal       Outer diameter (jacket)     52 mm       Tolerance outer diameter (sheath)     5 %       Material wire insulation     PP       Amount wires     3       Outer diameter (sheath)     1 5 %       Material wire insulation     1,7 mm       Outer diameter (sheath)     2 5 %       Shore hardness wire insulation     1,7 mm       Outer diameter (wire)     0,15 mm       Canductor rows weight wires     0,15 mm       Canductor row     Stranded copper wire, bare       Canductor vire     Stranded copper wire, bare       Canductor vire     Stranded copper wire, bare       Canductor vire     Stranded copper	Cable identification	
Type of Certificate     cURus       Arnout stranding     1       Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Cable weight     48.4 g/m       Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Duter diameter (jacket)     5.2 mm       Tolerance outer diameter (jacket)     5.2 mm       Outer diameter (jacket)     5.2 mm       Outer diameter (jacket)     5.2 freedom free       Amount wires     3       Outer diameter insulation     1,7 mm       Outer diameter insulation     1,7 mm       Outer diameter sinulation     1,7 mm       Outer diameter sinulation     1,5 %       Shore hardness wire insulation     1,5 mr       Outer diameter insulation     1,7 mm       Outer diameter (single wires     0,15 mm       Canductor rossection (wire)     0,75 mm²       Material conductor wire     Stranded copper wire, bare	Cable Type	
Amount stranding     1       Stranding     3 wires twisted       Stranding     3 wires twisted       Stranding     3 wires twisted       Stranding     3 wires twisted       Treversing dislance (C-track)     5 m @ 25 °C   hrizontal       Cable weigh     48.4 g/m       Material jacket     PUR       Shore hardness jackat     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5,2 mm       Toerance outer diameter (sleath)     5 %       Material wire insulation     PP       Arnout wires     3       Outer diameter tolerance core insulation     1,7 mm       Outer diameter tolerance core insulation     1,7 mm       Outer diameter tolerance core insulation     142       Diameter of single wires     0,15 mm       Conductor rossection (wire)     42       Diameter of single wires     0,15 mm²       Conductor rowine     Strand class 6       Nominal voltage (wire)     12 A       Current load capacity mint. wire     12 A       Ele	Jacket Color	
Stranding   3 wires twisted     wire arrangement   black 1, black 2, green-yellow     Traversing distance (C-track)   5 m @ 25 °C   horizontal     Cable weigh   48,4 g/m     Material jacket   PUR     Shore hardness jacket   58 ± 3 Shore D     Freedom from ingredients (jacket)   52,2 mm     Tolerace outer diameter (jacket)   5,2 mm     Outer diameter (jacket)   5,2 mm     Tolerace outer diameter (jacket)   5,2 mm     Outer diameter (jacket)   5,5 mm     Data diameter losulation   1,7 mm     Outer diameter lostrance core insulation   1,7 mm     Outer diameter lostrance core insulation   1,4 ± 3 Shore D     Ingredient freeness wire insulation   1,7 mm     Outer diameter lostrance   0,15 mm     Conductor crossection (wire)   0,75 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wine)   strand class 6     Nominal voltage AC max.   300 V     Current	Type of Certificate	cURus
wire arrangementblack 1, black 2, green-yellowTraversing distance (C-track)5 m @ 25 °C   horizontalCable weigth48.4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)5.2 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter (leaket)± 5 %Outer diameter insulation1,7 mmOuter diameter trolerance core insulation± 5 %Shore hardness wire insulation1,4 ± 3 Shore DIngredient treeness wire insulation14 ± 3 Shore DIngredient treeness wire insulation1,4 ± 3 Shore DDiameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Conductor vireeStranded copper wire, DareConductor vireeStrande close 6Current load capacity (slandard)to DIN VDE 0298.4Current load capacity (slandard)10 NV DE 0298.4Current load capacity (slandard)2,5 KV @ 60 sPower frequency withstand voltage (wire)2,5 KV @ 60 sPower frequency withstand voltage (wire)2,5 KV @ 60 sMin. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (mir, (synamic))-25 °COperating temperature (mir, (synamic))-25 °COperating temperature (mir, (synamic))-25 °COperating temperature (mir, (synamic)) </td <td>Amount stranding</td> <td>1</td>	Amount stranding	1
Traversing distance (C-track)     5 m @ 25 °C   horizontal       Cable weigth     48,4 g/m       Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5.2 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter risulation     1.7 mm       Duter diameter risulation     74 ± 3 Shore D       Shore hardness wire insulation     F4 ± 3 Shore D       Ingredient freeness wire insulation     164 × 4 ± 3 Shore D       Ingredient reness wire insulation     I/2 ± 3 Shore D       Ingredient freeness wire insulation     164 × 4 ± 3 Shore D       Diameter tolerance core insulation     174 ± 3 Shore D       Conductor crossection (wire)     0.75 mm <sup>2</sup> Conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Nominal voltage (wire - wire)     2.5 kV @ 60 s       Current load capacity (standard)     to DIN VDE 0298-4       Current load capa	Stranding	3 wires twisted
Cable weigth 48,4 g/m   Material jacket PUR   Shore hardness jacket 58 ± 3 Shore D   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer-diameter (acket) 5.2 mm   Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP   Amount wires 3   Outer diameter insulation 1.7 mm   Duter diameter insulation 1.7 mm   Outer diameter insulation 1.7 mm   Duter diameter insulation 1.4 ± %   Namount simus (wire) 42   Diameter of single wires 0,15 mm   Conductor vire Strande coper wire, bare   Conductor vire Strande coper wire, bare   Conductor vire Strande coper wire, bare   Conductor vire 20 Km @ 20 °C   Current load capacity (standard) to DIN VDE 0298-4   Current load capaci	wire arrangement	black 1, black 2, green-yellow
Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Dute-diameter (jacket)     5,2 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Annount wires     3       Outer diameter rolerance core insulation     1,7 mm       Duter diameter tolerance core insulation     2 5 %       Shore hardness wire insulation     14 ± 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Annount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor crossection (wire)     0,75 mm²       Material conductor wire     Stranded copper wire, bare       Conductor vire     Stranded copper wire, bare       Conductor vire     Stranded copper wire, bare       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 - wire)     2,5 kV @ 60 s </td <td>Traversing distance (C-track)</td> <td>5 m @ 25 °C   horizontal</td>	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Start Procession     Start Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5.2 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter tolerance core insulation     1.7 mm       Outer diameter tolerance core insulation     1.4 ± 3 Kore D       Ingredient freeness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     1.4 ± 0.7 km       Outer of single wires     0.15 mm       Conductor crosssection (wire)     0.75 mm²       Material conclustor wire     Stranded copper wire, bare       Conductor vires     Stranded copper wire, bare       Conductor vire     Stranded copper wire, bare       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (wire - wire)     2.5 kV @ 60 s       Power frequency withstand voltage (wire - wire)     2.5 kV @ 60 s       Power frequency withstand voltage (wire - stard)     80 °C / 90 °C @ 10000 h Operation       Operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation	Cable weigth	48,4 g/m
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   5.2 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Annount wires   3     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   74 ± 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Annount strands (wire)   42     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     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 - acket)   40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Operating temperature min. (dy	Material jacket	PUR
Outer-diameter (jacket)     5,2 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Annount wires     3       Outer diameter insulation     1.7 mm       Outer diameter insulation     ± 5 %       Shore hardness wire insulation     ± 5 %       Shore hardness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor crosssection (wire)     0,75 mm <sup>2</sup> Conductor type (wire)     strande copper wire, bare       Conductor type (wire)     strande copper wire, bare       Conductor type (wire)     strande copper wire, bare       Coursent load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity withstand voltage (wire - actic)     2,5 kV @ 60 s       Power frequency withstand voltage (wire - actic)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation<	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1,7 mm     Duter diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   74 ± 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     Diameter of single wires   0,15 mm     Conductor rosssection (wire)   0,75 mm <sup>2</sup> Conductor vire   Stranded copper wire, bare     Conductor vire   Strande 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   12 A     Electrical resistance line constant wire   26 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   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)   -50 °C     Operating temp	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulationPPAmount wires3Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor crossection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2,5 kV @ 60 sPower frequency withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - 40 °C40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1009   IEC 60332-2-2	Outer-diameter (jacket)	5,2 mm
Amount wires3Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore DIngredient freeness wire insulationIead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor crossection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor torsessection (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 (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - kackt)2,5 kV @ 60 sPower frequency withstand voltage (wire - kackt)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)25 °COperating temperature min. (dynamic)-25 °COperating temperature	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation74 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor rosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor 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 (standard)2,5 kV @ 60 sPower frequency withstand voltage (wire - acket)2,5 kV @ 60 sPower frequency withstand voltage (wire - acket)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature (max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Material wire insulation	PP
Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor rosssection (wire)     0,75 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	Amount wires	3
Shore hardness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor crosssection (wire)     0,75 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     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 - acket)     -40 °C       Max. operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation       Operating temperature min. (dynamic)     -25 °C       Operating temperature max. (dynamic)     80 °C / 90 °C @ 10000 h Operation       UV resistance     DIN EN ISO 4892-2 A       Flame resistance     UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Outer diameter insulation	1,7 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (in . wire)2.6 Ω/km @ 20 °CAC withstand voltage (wire - wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - action)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 OperationUV resistanceUN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Outer diameter tolerance core insulation	±5%
Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor 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 (wire - wire)12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - iacket)-40 °CMax. operating temperature (istatic)-40 °CMax. operating temperature (istac)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Shore hardness wire insulation	74 ± 3 Shore D
Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor 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. 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 max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor 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. 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 max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Amount strands (wire)	42
Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal 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 min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Diameter of single wires	
Conductor type (wire)strand class 6Nominal 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 min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Q/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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Material conductor wire	Stranded copper wire, bare
Current 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 min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Conductor type (wire)	strand class 6
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Nominal voltage AC max.	300 V
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Current load capacity (standard)	to DIN VDE 0298-4
Electrical 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Current load capacity min. wire	12 A
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Electrical resistance line constant wire	
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	AC withstand voltage (wire - wire)	
Min. 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Power frequency withstand voltage (wire -	2,5 kV @ 60 s
Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		-40 °C
Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		
Operating temperature max. (dynamic)     80 °C / 90 °C @ 10000 h Operation       UV resistance     DIN EN ISO 4892-2 A       Flame resistance     UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		
UV resistance     DIN EN ISO 4892-2 A       Flame resistance     UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		
Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		· · · · · · · · · · · · · · · · · · ·
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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: 2024-05-05

Murrelektronik bv | Noorderlaan 147-b9 | B-2030 Antwerpen | Fon +32 (0)380 868 81 | Fax | shop@murrelektronik.be | shop.murrelektronik.be



Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
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	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min

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