

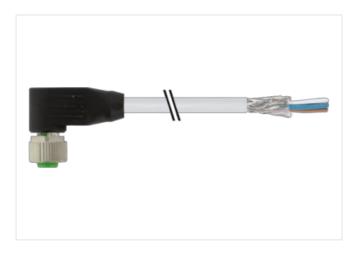
## M12 female 90° A-cod. with cable shielded

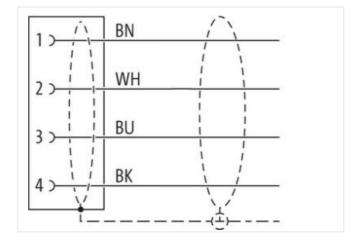
PUR 4x0.34 shielded gy UL/CSA+drag ch. 40m

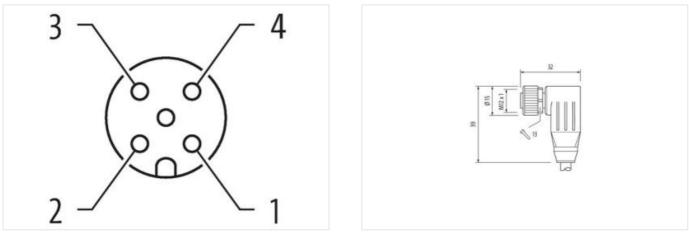
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-18

40 m

0,6 Nm

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



Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879460798
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	1
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	·····,··· ··,· ·· ·· ··
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
•	
Note on strain relief	Protect the connectors by suitable measures from mechanical 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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	

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wire arrangement

brown, black, blue, white

Jacket Color         gray           Type of Certificate         cURus           Anount stranding         1           Stranding         4 wires twisted           Cable shelding (type)         cooper training           Cable shelding (type)         cooper training           Bandring         Floeco. Fol           wire arrangement         brax.bls, bls, white           Cable weight         50.6 g/m           Maloral jacket         PUF           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, canimum-free, CFC-free, halogen-free, silicone-free           Outer damoting (radiot)         2.5 %           Maread vire insulation         PP           Anount wires         4           Outer damoting (radiot)         1.2 5 %           Maread vire insulation         1.2 5 mm           Outer damoter (radiate)         1.2 5 mm <tr< th=""><th>Cable identification</th><th>241</th></tr<>	Cable identification	241
Type of Certificate         cURus           Arrouxt stranding         1           Arrouxt stranding         1           Cable shuffing (type)         coppor trait. (Innod           Cable shuffing (coverage)         80 %           Bandring         Fleecos. Fol           wire arrangement         brown, black, blue, white           Cable shuffing (coverage)         80 %.           Bandring         90 & 5 Store A           Freadem form ingredients (galexh)         90 & 5.5 Inno           Totarnaco oucle demainer (shealth)         5.5 %           Material packet         90 & 5.5 Inno           Totarnaco oucle demainer (shealth)         5.5 %           Material wire insulation         90 & 5.5 Nm           Totarnaco oucle demainer (shealth)         5.5 %           Store hardmess wire insulation         1.25 mm           Outer diameet insulation         1.25 mm           Outer diameet insulation         1.25 mm           Diameder of single wires         0.1 mm           Conductor passection (wire)         0.34 mm <sup>2</sup> Material condicutor vire         Starad class 6           Ornized outpace of single wires         0.1 mm           Conductor passection (wire)         0.34 mm <sup>2</sup> Outer diama	Cable Type	3
Amount stranding         1           Stranding         4 wire twisted           Cable shelding (cyverage)         80 %           Banding         Freeor, Foll           wire arrangement         brown, black, blue, white           Cable shelding (cyverage)         80 %           Metarial jacket         PUR           Shore hardness jacket         90 5 Shore A           Freudom form (requireding (sized)         5.3 mm           Outer diameter (lacked)         5.3 mm           Tolerance outer diameter (lacked)         5.3 mm           Outer diameter (lacked)         5.3 mm           Outer diameter insulation         PP           Annout vires         4           Outer diameter insulation         12 5 mm           Outer diameter insulation         12 5 S more D	Jacket Color	gray
Stranding     4 wiros hvisted       Cable shelding (type)     oopper brait, timed       Cable shelding (type)     00,90 m       Banding     Fleece, Fall       wire strangment     bow, black, blue, white       Cable weigin     50,6 g/m       Material jacket     PUR       Shore hardmass jacket     PUR       Shore hardmass jacket     PUR       Shore hardmass jacket     PUR       Dider diameter (sketh)     5,5 %       Material jacket     PUR       Shore hardmass jacket     PUR       Dider diameter (sketh)     5,5 %       Material wire insulation     PF       Anound wire     4       Outer diameter (sketh)     1,5 %       Shore hardmass wire insulation     1,2 5 mn       Outer diameter insulation     1,2 5 mn       Outer diameter insulation     1,2 5 Shore D       Ingredient freeness wire insulation     1,2 5 Mm       Conductor vire     5 Xranded copper vire, bare       Canductor type (wire)     stranded copper vire, bare       Canductor type (wire)     stranded copper vire, bare       Canductor type (w	Type of Certificate	cURus
Gable shielding (cype)         copper braid, funned           Cable shielding (cypenge)         60 %.           Banding         Floeco, Foll           wire arrangement         brown, black, blue, while           Cable shielding (cypenge)         60 g /m           Matarial jackol         PUR           Shore hardness jacket         90 s 5 Shore A           Freedom from ingredinth (gickol)         18a d free, cadmum-free, CFC free, halogen-free, silicone free           Older diameter (gicken)         5.5 mm           Toterance ouler diameter (sheath)         5.5 mm           Older diameter insulation         PP           Amount wires         4           Ouder diameter insulation         7.0 s 5 Nore D           Imgredent freeness wire insulation         7.0 s 5 Nore D           Imgredent freeness wire insulation         7.0 s 5 Nore D           Imgredent freeness wire insulation         7.0 s 5 Nore D           Imgredent freeness wire insulation         7.0 s 5 Nore D           Imgredent freeness wire insulation         8.0 %           Shore hardness wire insulation         8.0 %           Conductor topse wire insulation         8.0 %           Conductor topse wire insulation         8.0 %           Conductor consesection (wire)         0.0 % mm <sup>2</sup> <td>Amount stranding</td> <td>1</td>	Amount stranding	1
Cable shielding (coverage)         80 %           Banding         Pleece, Foll           Weie arrangement         bown, black, blue, while           Cable weigh         50.6 g/m           Material jacket         90 ± 5 Shore A           Freedom from ingredents (jacket)         63.6 g/m           Cable weigh         53.7 m           Cable and compare the instruction of the instructin on instructin on instruction of the instruction of the instruc	Stranding	4 wires twisted
Cable shielding (coverage)         80 %           Banding         Pleece, Foll           Weie arrangement         bown, black, blue, while           Cable weigh         50.6 g/m           Material jacket         90 ± 5 Shore A           Freedom from ingredents (jacket)         63.6 g/m           Cable weigh         53.7 m           Cable and compare the instruction of the instructin on instructin on instruction of the instruction of the instruc	Cable shielding (type)	copper braid, tinned
Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Cable weigh         50.6 g/m           Material Jacket         90 ± 5 Brore A           Freedom from Ingredients (jacket)         16.3 m/m           Tolerance outer diameter (jacket)         5.3 m/m           Tolerance outer diameter (jacket)         5.3 m/m           Outer diameter insulation         PP           Annount wires         4           Outer diameter insulation         1.25 m/m           Outer diameter lostarace core insulation         1.5 %           Shore hardness wire insulation         1.25 m/m           Outer diameter lostarace core insulation         4.2 m/m           Diameter of single wires         0,1 nm           Conductor orssessection (wire)         0.34 m/m           Material voltage wires         0,1 nm           Conductor type (wire)         0.34 m/m           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         0.1 nm           Conductor type (wire)         0.1 nm <t< td=""><td></td><td></td></t<>		
Gable weight         50.6 g/m           Material jacket         PUR           Shore hardness jacket         90.4 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.3 mm           Toerance outer diameter (sheat)         5.5 %           Material wire insulation         PP           Amount wires         4           Outer diameter tolerance core insulation         1.25 mm           Outer diameter tolerance core insulation         1.5 %           Shore hardness wire insulation         70.5 Shore D           Ingredient freecess wire insulation         70.5 Shore D           Ingredient freecess wire insulation         10.4 S mm           Conductor resease of wires         0.1 mm           Conductor viewes         Stranded copper wire, bare           Conductor viewes         Stranded co		Fleece, Foil
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         5,3 mm           Tolerance outer diameter (jacket)         5,3 mm           Tolerance outer diameter (jacket)         5,3 mm           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Norn hardness wire insulation         1,25 mm           Material conductors (wire)         42           Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,34 mm <sup>2</sup> Material conductor wire         Stranded coxper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity fusind wire         4,8 A           Electrical resistance line constant wire         57 Qkm @ 20 °C	wire arrangement	brown, black, blue, white
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         ± 5 %           Material wire insulation         PP           Anount wires         4           Outer diameter insulation         1,25 mm           Outer of single wires         0,1 mm           Conductor crossection (wire)         0,34 mm <sup>2</sup> Diameter of single wires         0,1 mm           Conductor vires excelson (wire)         0,34 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor vises excelson (wire)         0,34 mm <sup>2</sup> 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 (mix wire)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s      <	Cable weigth	50,6 g/m
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         ± 5 %           Material wire insulation         PP           Anount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,24 mm           Anount strants (wire)         42           Diameter of single wires         0,1 mm           Conductor rossection (wire)         0,34 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0296-4           Current load capacity (standard)         to DIN VDE 0296-4           Current load capacity (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (toxd)         80 °C / 90 °C @ 10000 h Operation <td>Material jacket</td> <td>PUR</td>	Material jacket	PUR
Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         10 ± 5 %           Shore hardness wire insulation         10 ± 5 %           Diameter of large wires         0.1 mm           Conductor crosssection (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor vires         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal votage AC max.         300 V           Current load capacity (standard)         to IN VDE Co94.4           Current load capacity (min. wire         4.8 A           Electrical resistance line constant wire         57 Ω/xm @ 20 °C           AC withstand votage (wire - wire)         2 kV @ 60 s           Mn. operating temperature (statc)         40 °C           Mn. operating temperature (statc)         80 °C / 90 °C @ 10000 h Operation           Quere flaguency withstand votage (wire - shied)         2 kV @ 60 s </td <td></td> <td>90 ± 5 Shore A</td>		90 ± 5 Shore A
Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         15 %           Material wire insulation         1.25 mm           Outer diameter insulation         10.5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0.1 mm           Conductor crosssection (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor vise         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal votage AC max.         300 V           Current load capacity (standard)         to DIN VDE Co29x-4           Current load capacity (min. wire)         4.8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand votage (wire - wire)         2 kV @ 60 s           Min. operating temperature (stac)         40 °C           Min. operating temperature (stac)         80 °C / 90 °C @ 10000 h Operation           Coperati	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath) $\pm$ 5 %         Material wire insulation       PP         Anount wires       4         Outer diameter insulation       1.25 mm         Outer diameter insulation $\pm$ 5 %         Shore hardness wire insulation $70 \pm$ 5 Shore D         Impredient (resenses wire insulation $70 \pm$ 5 Shore D         Impredient (resenses wire insulation $70 \pm$ 5 Shore D         Impredient (resenses wire insulation $70 \pm$ 5 Shore D         Ingredient (resenses wire insulation $70 \pm$ 5 Shore D         Material conductor crosssection (wire) $0.1 mm$ Conductor trosssection (wire) $0.34 mm^2$ Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity min, wire $4.8 A$ Electrical resistance line constant wire $57 \Omega km$ @ 20 °C         AC withstand voltage (wire - wire) $2 kV @ 60 s$ Power frequency withstand voltage (wire - wire) $2 kV @ 60 s$ AC withstand voltage (wire - siled) $2 kV @ 60 s$ Deparating temperature (tistci) $40  ^{\circ C}$ Max. operating temperature (static) $40$	Outer-diameter (jacket)	
Amount wires4Outer diameter insulation1.25 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation1 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor orsessection (wire)0,34 mm²Material conductor wireStrand dopper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sPower frequency withstand voltage (wire -2 kV @ 60 sAKAc withstand voltage (wire - shield)2 kV @ 60 sSMin. operating temperature (statc)-40 °CMax. operating temperature (statc)-40 °CMax. operating temperature (statc)-25 °COperating temperature (statc)-25 °COperating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)50 °C (notoon h OperationDia esistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDin NE NoB11-	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         1.25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Impredient freeness wire insulation         lead-free. cadinum-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,34 mm <sup>3</sup> Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0284-4           Current load capacity (standard)         to DIN VDE 0284-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 0/km 20 °C           AC withstand voltage (wire - sineld)         2 kV @ 60 s           AC withstand voltage (wire - sineld)         2 kV @ 60 s           AC withstand voltage (wire - sineld)         2 kV @ 60 s           AC withstand voltage (wire - sineld)         2 kV @ 60 s           Coreating temperature (tstalc)         -40 °C           Max. operating temperature (stalc)         -40 °C           Goreating temperature (stalc)         -25	Material wire insulation	
Quter diameter tolerance core insulation         ± 5 %.           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire- wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Ac withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C @ 10000 h Operation           Operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature mix. (dynamic)         25 °C           Operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature mix. (dynamic)         25 °C <td>Amount wires</td> <td>4</td>	Amount wires	4
Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Dianeter of single wires         0,1 mm           Conductor rossesceion (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor (yee) (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Mn. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Gasoline resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404 [Good, application-related testing           Oil resistance         DIN EN 6081	Outer diameter insulation	1,25 mm
Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Dianeter of single wires         0,1 mm           Conductor rossesceion (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor (yee) (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Mn. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Gasoline resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404 [Good, application-related testing           Oil resistance         DIN EN 6081		·
Amount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 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)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sCowith stand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - lacket)2 kV @ 60 sAC with stand voltage (wire - stand voltage (wire - stacket)2 kV @ 60 sOperating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature min. (dynamic)-26 °CBor C / 90 °C @ 10000 h OperationFilam resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CNo. of bending cycles (C-track)5 mio. 25 °C </td <td>Shore hardness wire insulation</td> <td>70 ± 5 Shore D</td>	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 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)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sCowith stand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - lacket)2 kV @ 60 sAC with stand voltage (wire - stand voltage (wire - stacket)2 kV @ 60 sOperating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature min. (dynamic)-26 °CBor C / 90 °C @ 10000 h OperationFilam resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CNo. of bending cycles (C-track)5 mio. 25 °C </td <td></td> <td></td>		
Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current Load capacity (standard)         to DIN VDE 0298-4           Current Load capacity (standard)         to DIN VDE 0298-4           Current Load capacity (standard)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (fixed)         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 (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           Olire istance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2		
Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current Load capacity (standard)         to DIN VDE 0298-4           Current Load capacity (standard)         to DIN VDE 0298-4           Current Load capacity (standard)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (fixed)         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 (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           Olire istance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2	Diameter of single wires	0.1 mm
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 (standard)to DIN VDE 0298-4Current load capacity (standard)4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sNin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-40 °CMax. operating temperature (static)-40 °CGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingBending radius (stred)5 × Outer diameterNo. of bending cycles (C-track)5 Mio. @25 °CTraversing distance (C-track)5 m @ 25 °C (> horizontalTravel speed (C-track)5 m @ 25 °CNo. of torsion cycles2 Mio.Torsion str	-	•
Conductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (tixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (mixe)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1009   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsin cycles2 Mio.Torsion stress± 30 °/m	. ,	·
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 AElectrical resistance line constant wire $57 \Omega/km @ 20 °C$ AC withstand voltage (wire - wire) $2 kV @ 60 s$ Power frequency withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ AC withstand voltage (wire - shield) $2 kV @ 60 s$ 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) $80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles2 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress\pm 30 °/m$		
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Electrical resistance line constant wire       57 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         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         No. of bending cycles (C-track)       5 m @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m		4.8 A
AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. 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)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         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         No. of bending cycles (C-track)       5 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       5 m @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m		
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Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       3,3 m/s @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m	chemical resistance	
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Travel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Traversing distance (C-track)	5 m @ 25 °C   horizontal
No. of torsion cycles     2 Mio.       Torsion stress     ± 30 °/m	Travel speed (C-track)	
Torsion stress ± 30 °/m	No. of torsion cycles	
	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: 2024-05-18

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