

## M12 female 0° A-cod. with cable shielded

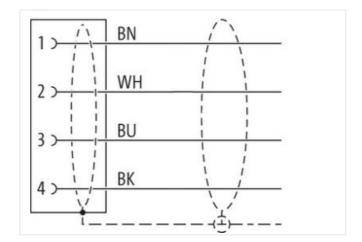
PVC 4x0.34 shielded gy 25m

Female straight 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

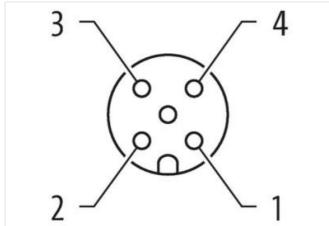
Illustration





N B

3



Product may differ from Image



Cable length

25 m

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: 2024-05-03

0,6 Nm

Murrelektronik Ltd. | 5 Albion Street, Pendlebury Industrial Estate, Swinton | Manchester M27 4FG | Fon +44 161 728 3133 | Fax +44 161 728 3130 | shop@murrelektronik.co.uk | shop.murrelektronik.co.uk



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-6.1	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	4048879200189
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 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)	
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	
	Destast the second stars by suitable measures from machinelised as a by the years of able time
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	
Cable identification	330

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Anount Stranding   1     Stranding Idador min.   74 mm     Stranding Idador max.   74 mm     Cable shielding (type)   copper braid, finned     Cable shielding (type)   copper braid, finned     Cable shielding (type)   65 %     Banding   Fleece, Foll     Wrie arrangement   brown, black, blue, while     Cable weight   53.9 g/m     Matrial jacket   87 CC     Shore hardness jacket   85 Shore A     Freedom from ingredients (gacket)   16.9 mm     Tolerance outer diameter (sheath)   1.5 %     Material jacket   9.0 mm     Tolerance outer diameter insulation   1.4 rm     Outer diameter insulation   1.4 rm     Outer diameter insulation   1.4 rm     Cardied terret reserve insulation   1.8 %     Shore hardness wire insulation   1.8 %     Shore hardness wire insulation   1.8 %     Shore hardness wire insulation   1.8 mm <sup>3</sup> Material conductor or consection (wire)   0.34 mm <sup>3</sup> Material conductor or consection (wire)   0.34 mm <sup>3</sup> Material conductor in sulation   1.5 KV @ 80 s	Jacket Color	gray
Stranding factor min. 74 mm   Stranding factor mix. 74 mm   Cable shieling (tope) copper braid, timed   Cable shieling (coverage) 85 %.   Banding Fieeco, Foll   wire arrangement brown, black, blue, white   Cable weight 53.9 g/m   Material jacket 85 Shore A   Freedom from ingredents (galxett) lead-free, cantum-free, CPC-free   Outer diameter (jacket) lead-free, cantum-free, CPC-free   Outer diameter (galxett) is 5 %   Material jacket 4   Outer diameter (jacket) is 5 %   Material index for insulation 1.4 mm   Outer diameter insulation 1.4 mm   Outer diameter insulation 1.5 %   Material index five) 42   Dameter tolerance core insulation 85 Shore A   Ingredient feeness wire insulation 1.4 mm   Outer diameter insulation 1.4 mm   Outer diameter tolerance core insulation 85 Shore A   Ingredient feeness wire insulation 1.8 dFree, cantum-free, CPC-free   Amount strands five) 42   Diameter of single wires 0.1 mm   Conductor consection (wire) 0.34 mm <sup>2</sup> Material conductor venductory Stort A   Max rated voltag	Amount stranding	1
Stranding factor max.74 mmCabb shielding (type)copper braid, tinnedCabb shielding (coverage)85 %BandingFleece. Folwirre arrangementbrown, black, blue, whiteCabb weight53.9 g/mMaterial jacketPVCShore hardness jacket85 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-freeOuter-diameter (jacket)5.9 mmTolerance outer diameter (sheath)± 5 %Material wei insulationPVCAmount Wries4Outer diameter (sheath)± 5 %Shore hardness wei insulation5.9 mmOuter diameter (sheath)± 5 %Shore hardness wire insulation5.8 Shore ATolerance outer diameter (sheath)± 5 %Shore hardness wire insulation5.8 Shore ACutter diameter (solation)1.4 mmOuter diameter of longe wires0.1 mmConductor consection (wire)0.34 mm²Material vering (conductor - conductor)500 VMax. rated voltage (conductor - sonductor)500 VMax. rated voltage (conductor - conductor)500 VMax. rated voltage (conductor - sonductor)50 V <td>Stranding</td> <td>4 wires twisted</td>	Stranding	4 wires twisted
Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fleece, Foil       wire arrangement     brown, black, blue, while       Cable shielding (coverage)     53,9 g/m       Material jackt     PVC       Shore hardness jackal     85 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free       Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material jackt     PVC       Outer diameter (sheath)     ± 5 %       Material jackt     PVC       Shore hardness wire insulation     1,4 mm       Outer diameter (sheath)     ± 5 %       Shore hardness wire insulation     1,4 mm       Outer diameter tolerance core insulation     1,5 %       Shore hardness wire insulation     lead free, cadmium-free, CFC-free       Amount strands (wire)     0,34 mm <sup>2</sup> Canductor troessection (wire)     0,34 mm <sup>2</sup> Conductor vise insulation     lead free, cadmium-free, CFC-free       Amount strands (wire)     0,44 mm <sup>2</sup> Conductor type (wire) <t< td=""><td>Stranding factor min.</td><td>74 mm</td></t<>	Stranding factor min.	74 mm
Cable shielding (coverage)     85 %       Banding     Fleece, Fol       wire arrangement     brown, black, blue, white       Cable weigth     53.9 g/m       Material jackat     PVC       Shore hardness jackat     85 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free       Outer-diameter (jacket)     5.9 mm       Tolerance outer diameter (sheath)     5.5 %       Material wre insulation     PVC       Amount wires     4       Outer diameter losalation     1.4 mm       Outer diameter losalation     5.5 %       Shore hardness wire insulation     1.4 mm       Outer diameter losalation     85 Shore A       Ingredient Treoness wire insulation     1.4 mm       Outer diameter losalation     85 Shore A       Ingredient Treoness wire insulation     1.4 mm       Conductor wires swire insulation     1.4 mm       Conductor type (wire)     9.4 (Autor)       Conductor visces wire insulation     1.4 mm <sup>2</sup> Conductor type (wire)     5.7 km de copper wire, bare       Conductor type (wire)     5.7 atmode copper wire, bare	Stranding factor max.	74 mm
Banding     Fleece, Foll       wire arrangement     brown, black, blue, white       Cable weigh     53.9 g/m       Material jacket     PVC       Shore hardness jacket     85 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free       Outer diameter (jacket)     5,9 mm       Tolerance outer diameter (gaket)     5,9 mm       Tolerance outer diameter (gaket)     1,5 %       Material wire insulation     PVC       Amount wires     4       Outer diameter (gaket)     1,4 mm       Outer diameter insulation     1,4 mm       Conductor consessection (wire)     0,34 mm²       Binnet or Single wires     0,1 mm       Conductor try (wire)     1,4 mm²       Material conductor wire     Strand class 6       Max. rated voltage (conductor- conductor)     500 V       Max. rated voltage (conductor- conductor)     500 V       Max. rated voltage (wire)     1,5 kV @ 60 s       Current	Cable shielding (type)	copper braid, tinned
wire arangement     brown, black, blue, white       Cable weight     53.9 g/m       Material jacket     PVC       Shore hardness jacket     85 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free       Outer-diameter (jacket)     5.9 mm       Tolerance outer diameter (sheath)     5.9 %       Material wire insulation     PVC       Amount wires     4       Outer diameter insulation     1.4 mm       Outer diameter insulation     85 Shore A       Ingredient freeness wire insulation     85 Shore A       Ingredient freeness wire insulation     85 Shore A       Ingredient freeness wire insulation     14 4rm       Conductor crossection (wire)     0.34 mm²       Material conductor vire     Stranded copper wire, bare       Conductor vire (sigle wires     0.1 mm       Conductor vire (sigle conductor - ground)     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4 <	Cable shielding (coverage)	85 %
Cable weigh     53,9 g/m       Material jacket     PVC       Shore hardness jacket     85 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free       Outer-diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     1,6 %       Material wire insulation     PVC       Amount wires     4       Outer diameter (sheath)     1,5 %       Shore hardness wire insulation     1,4 mm       Outer diameter tolerance core insulation     2,5 %       Shore hardness wire insulation     85 Shore A       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor crossection (wire)     0,34 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor vipe (wire)     strand class 6       Max. rated voltage (conductor - orgound)     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4	Banding	Fleece, Foil
Material jacket     PVC       Shore hardness jackat     85 Shore A       Freedom from ingredents (jacket)     lead-free, cadmium-free, CFC-free       Outer diameter (jacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PVC       Amount wires     4       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     1.4 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     16ad-free, cadmium-free, CFC-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0.34 mm <sup>3</sup> Conductor vire     Strand elass 6       Max. rated voltage (conductor - conductor)     500 V       Max. rated voltage (wire - wire)     1.5 kV @ 60 s       Power frequency withstand voltage (wire - wire)     1.5 kV @ 60 s       Power frequency withstand voltage (wire - win	wire arrangement	brown, black, blue, white
Shore hardness jacket 86 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free   Outer-diameter (jacket) 5.9 mm   Tolerance outer diameter (jacket) 1.5 %   Material wire insulation PVC   Amount wires 4   Outer diameter (solvant) 1.5 %   Shore hardness wire insulation 1.4 mm   Outer diameter tolerance core insulation 4.5 %   Shore hardness wire insulation 85 Shore A   Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free   Amount strands (wire) 4.2   Diameter of single wires 0.1 mm   Conductor vossection (wire) 0.34 mm <sup>2</sup> Material conductor wire Stranded copper wire, bare   Conductor vire (wire) strand class 6   Max. rated voltage (conductor - orgound) 300 V   Current load capacity min. wire 4.8 A   Electrical resistance line constant wire 57 2/km @ 20 °C   AC withstand voltage (wire - wire) 1.5 kV @ 60 s   Min. operating temperature (sitcl) -30 °C   Min. operating temperature (kitcl) 80 °C   Operating temperature (min. (wirgmnic) 5 °C   Operating temperature (min. (wirgmnic) 5 °C   Operating temperature (min. (wirgmnic) 5	Cable weigth	53,9 g/m
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free     Outer-diameter (jacket)   5.9 mm     Tolerance outer diameter (jacket)   ± 5 %     Material wise insulation   PVC     Amount wires   4     Outer diameter insulation   1.4 mm     Outer diameter insulation   ± 5 %     Shore hardness wire insulation   ± 5 %     Shore hardness wire insulation   85 Shore A     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-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     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (wire - wire)   1.5 kV @ 60 s     Power frequency withstand voltage (wire - wire)   1.5 kV @ 60 s     Ac withstand voltage (wire - wire)   1.5 kV @ 60 s     Mix. operating temperature (fixed)   60 °C     Operati	Material jacket	PVC
Outer-diameter (jacket)5.9 mmTolerance outer diameter (shealth) $\pm$ 5 %Material wire insulationPVCAmount wires4Outer diameter insulation $1.4$ mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Shore hardness wire insulation $\pm$ 5 %Impredient freeness wire insulation $\pm$ 5 %Conductor crossection (wire)42Diameter of single wires0.1 mmConductor rossection (wire)0.34 mm²Material conductor wireStranded copper wire, bareConductor vireStranded copper wire, bareCurrent load capacity (standy)to DIN VDE 0298-4Current load capacity (standy)to DIN VDE 0298-4Current load capacity (standy)to DIN VDE 0298-4Current load capacity (standy voltage (wire)1.5 kV @ 60 sAc withstand voltage (wire)1.5 kV @ 60 sPower frequency withstand voltage (wire)30 °COperating temperature (static)-30 °CMax. operature (static)-30 °C<	Shore hardness jacket	85 Shore A
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PVC     Amount wires   4     Outer diameter insulation   1.4 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   85 Shore A     Ingredient freeness wire insulation   16 %     Shore hardness wire insulation   85 Shore A     Ingredient freeness wire insulation   16 %     Shore hardness wire insulation   16 %     Ingredient freeness wire insulation   16 %     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     Max. rated voltage (conductor - oroductor)   500 V     Max. rated voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - tipe (T_0 kM @ 20 °C   2     AC withstand v	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free
Material wire insulation     PVC       Amount wires     4       Outer diameter insulation     1,4 mm       Outer diameter insulation     15 %       Shore hardness wire insulation     85 Shore A       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor resossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Max. rated voltage (conductor - conductor)     500 V       Max. rated voltage (conductor - ground)     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Ca withstand voltage (wire - wire)     1,5 kV @ 60 s       Power frequency withstand voltage (wire - bield)     1,5 kV @ 60 s       Ac withstand voltage (wire - shield)     1,5 kV @ 60 s       Max. operating temperature (statc)     -30 °C       Ac withstand voltage (wire - shield)     1,5 kV @ 60 s       M	Outer-diameter (jacket)	5,9 mm
Amount wires   4     Outer diameter insulation   1,4 mm     Outer diameter lolerance core insulation   ± 5 %     Shore hardness wire insulation   85 Shore A     Ingredient Freeness wire insulation   lead-free, cadmium-free, CFC-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor rosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity min. wire   4.8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - shield)   1,5 kV @ 60 s     Mix. operating temperature min. (fynamic)   -5 °C     Operating temperature min. (fynamic)   -5 °C     Operating temperature min. (fynamic)   70 °C     Flame resistance   Good, application-related testing     Gasoline resistance   Good, application-relat	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation     1.4 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     85 Shore A       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free       Amount strands (wire)     42       Diameter of single wires     0.1 mm       Conductor rosssection (wire)     0.34 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strande class 6       Max. rated voltage (conductor - conductor)     500 V       Max. rated voltage (conductor - conductor)     500 V       Max. rated voltage (conductor - conductor)     500 V       Max. rated voltage (conductor - ground)     300 V       Current load capacity (standard)     to IN VDE 0298-4       Current load capacity (standard)     to IN VDE 0298-4       Current load capacity (win: • wire)     1,5 kV @ 60 s       Power frequency withstand voltage (wire - inform @ 0.5 V     4.8 A       Power frequency withstand voltage (wire - sheld)     1,5 kV @ 60 s       Min. operating temperature (fixed)     30 °C       Operating temperature (fixed)     80 °C       Operating temperature (fixed)	Material wire insulation	PVC
Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   85 Shore A     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor vire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Max. rated voltage (conductor - ground)   300 V     Current load capacity (strandard)   to DIN VDE 0298-4     Current load capacity (win, wire   4,8 A	Amount wires	4
Shore hardness wire insulation   85 Shore A     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor cossection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - orgound)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - shield)   1,5 kV @ 60 s     Ac withstand voltage (wire - shield)   1,5 kV @ 60 s     Min. operating temperature (fixed)   80 °C     Operating temperature (fixed)   80 °C     Operating temperature (fixed)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oli resistance   Good, application-related testing	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-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     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - orgound)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   4,8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   1,5 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Max. operating temperature (static)   -5 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature min. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     <	Outer diameter tolerance core insulation	±5%
Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Max. rated voltage (conductor - conductor)   500 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (wine - wire)   1,5 kV @ 60 s     Ac withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - shield)   1,5 kV @ 60 s     Max. operating temperature (static)   -30 °C     Max. operating temperature (ifxed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance <td>Shore hardness wire insulation</td> <td>85 Shore A</td>	Shore hardness wire insulation	85 Shore A
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     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity win. wire   4,8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - insket)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - insket)   1,5 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Qoperating temperature max. (dynamic)   -5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090 <	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free
Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   4,8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - iacket)   1,5 kV @ 60 s     AC withstand voltage (wire - shield)   1,5 kV @ 60 s     Max. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Operating temperature (wine)   -5 °C     Operating temperature min. (dynamic)   -5 °C     Operating tensistance   UL 1581 § 1100 FT2   IEC 6032-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related test	Amount strands (wire)	42
Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   4.8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - iacket)   1,5 kV @ 60 s     AC withstand voltage (wire - shield)   1,5 kV @ 60 s     Max. operating temperature (static)   -30 °C     Max. operating temperature (mixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, applicati	Diameter of single wires	0,1 mm
Conductor type (wire)   strand class 6     Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   4.8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   1,5 kV @ 60 s     AC withstand voltage (wire - shield)   1,5 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (static)   -30 °C     Max. operating temperature min. (dynamic)   5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, app	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Max. rated voltage (conductor - conductor)   500 V     Max. rated voltage (conductor - ground)   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   1,5 kV @ 60 s     AC withstand voltage (wire - shield)   1,5 kV @ 60 s     Max. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Go	Material conductor wire	Stranded copper wire, bare
Max. rated voltage (conductor - ground)300 VCurrent 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)1.5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1.5 kV @ 60 sAC withstand voltage (wire - shield)1.5 kV @ 60 sAC withstand voltage (wire - shield)1.5 kV @ 60 sMax. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameter	Conductor type (wire)	strand class 6
Current 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)1,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameter	Max. rated voltage (conductor - conductor)	500 V
Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter	Max. rated voltage (conductor - ground)	300 V
Electrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)1,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingOil	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)   1,5 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   1,5 kV @ 60 s     AC withstand voltage (wire - shield)   1,5 kV @ 60 s     Min. operating temperature (static)   -30 °C     Max. operating temperature (fixed)   80 °C     Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   S × Outer diameter	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,5 kV @ 60 sMin. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceSo od, application-related testingOil resistanceSo od od, application-related testingOil resistanceSo od	AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Min. operating temperature (static)-30 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceS × Outer diameter		1,5 kV @ 60 s
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingStanceSoud, application-related testingOil resistanceSoud, application-related testingStanceSoud, application-related testingOil resistanceSoud, application-related testingStanceSouter diameter	AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Operating temperature min. (dynamic)   -5 °C     Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic)   70 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter	Operating temperature min. (dynamic)	-5 °C
chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter	Operating temperature max. (dynamic)	70 °C
Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistance Good, application-related testing   DIN EN 60811-404   Bending radius (fixed) 5 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter	Gasoline resistance	Good, application-related testing
	Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (dynamic) 15 x Outer diameter	Bending radius (fixed)	5 x Outer diameter
	Bending radius (dynamic)	15 x Outer diameter

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: 2024-05-03

Murrelektronik Ltd. | 5 Albion Street, Pendlebury Industrial Estate, Swinton | Manchester M27 4FG | Fon +44 161 728 3133 | Fax +44 161 728 3130 | shop@murrelektronik.co.uk | shop.murrelektronik.co.uk