

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

PUR 5x0.34 shielded gy 50m

Male 90° M12, 5-pole shielded A-coded

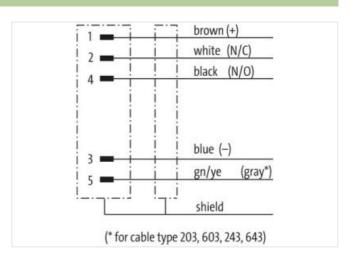
Plastic housings with good resistance against chemicals and oils.

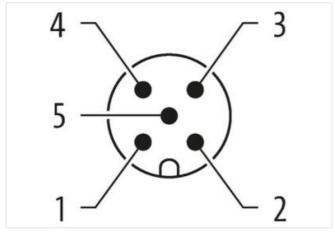
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

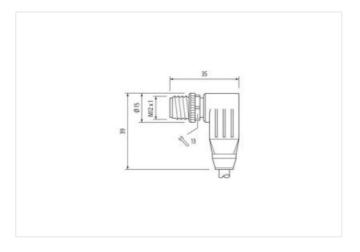
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

50 m

Side 1

Tightening torque

0,6 Nm

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: 2024-05-12



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Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Coating contact	gold plated
Commercial data	god plated
	07070040
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1 ECLASS-12.0	27060311
	27060311
ETIM-5.0 customs tariff number	EC001855 85444290
GTIN Production of the control of th	4048879550260
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)	I
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical 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)
	• •



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Cable identification         349           Jacket Color         gray           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (pype)         copper brank, finned           Cable shielding (coverage)         85 %           Banding         Fleece, Foll           Filler         yes           wire arrangement         brown, Black, blue, white, groon-yellow           Traversing distance (C-track)         5 m @ 52 °C           Cable weight         54 fg/m           Maerial jacket         PUB           Shore hardness jacket         PUB           Treaded mornin regretients (gacket)         65 ± 5 Shore A           Closed diameter (scheath)         5 5 %           Tolerance cuter diameter (scheath)         5 5 %           Tolerance cuter diameter (scheath)         5 5 %           Maerial inner jacket         PVC           Color (inner jacket)         gray           Maerial inner jacket         pvC           Color (inner jacket)         gray           Maerial inner jacket         pvC           Color (inner jacket)         gray           Maerial inner jacket         pvC           Color (inner jacket)	Installation   Cobin	
Amount stranding   1	Installation   Cable	
Amount stranding 5 wires around Core filler twisted 6 Cable shieding (type) copper braid, trined 7 Cable shieding (type) copper braid, trined 7 Cable shieding (type) copper braid, trined 8 S % Bandring Fleece, Foil 7 Fleer yes 7 Fleece, Foil 7 Fleer yes 8 Fleece, Foil 7 Fleer yes 8 Fleece, Foil 8 Fleer yes 8 Fleece, Foil 8 Fleer yes 8 Fleece, Foil 8 Fleer yes 9 Fleece, Foil 9 Fleer yes 9 Fleece, Foil 9 Fleece, F		349
Stranding 5 wires around Core filler twisted Cable shielding (type) cooper braid, trimed Cable shielding (type) 75 septial, trimed Cable shielding (coverage) 85 % Banding Floece, Foll Filter yes wire arrangement brown, black, blue, white, green-yellow Traveraing distance (C-track) 5 m @ 25 °C Cable weight 95 4 ym Material packet PUR Shore hardress jucket 85 5 Shore A Freedom from ingredients (packet) 15 % Freedom from ingredients (packet) 15 % Material protection of the street of the street insulation 15 % Material inner jacket PVC Color (inner jacket) 97 ym Material vire insulation PVC Amount wires 5 Shore hardress insulation PVC Amount wires 5 Shore hardress were insulation 1,145 mm Outer diameter (behand) 5 5 % Shore hardress were insulation 1,145 mm Outer diameter insulation 1,145 mm Outer diameter followance core insulation 1,000 machinability Ingredient fenenses were insulation 1,000 machinability Ingredien		
Cable shielding (type)         copper braid, finned           Cable shielding (coverage)         85 %           Banding         Fleece, Foll           Filer         yes           wire arrangement         brown, black, blue, while, green-yellow           Traversing distance (C-track)         5 m @ 25 °C           Cable weight         59.4 g/m           Material jacket         PLR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         18 ± 5 Shore A           Telerance outer dismeter (sheath)         ± 5 %           Material inner jacket         PVC           Cloir (inner jacket)         gray           Material wire insulation         p. VC           Cloir (inner jacket)         gray           Material wire insulation         1, 45 mm           Outer diameter insulation         1, 45 mm           Outer diameter insulation         1, 45 mm           Guit diameter insulation         1, 45 mm           Material properties wire insulation         85 ± 5 Shore A           Material properties wire insulation         18 ± 7 mm           Ingredient research wire insulation         18 ± 7 mm           Ingredient research wire insulation         19 ± 7 mm		
Cable sheding (coverage)         85 %           Banding         Pleace, Foil           Filler         yes           wire arrangement         brown, black, blue, write, green-yellow           Traversing distance (C-track)         5 m @ 25 °C           Cable weigh         58.4 g/m           Material jacket         PUR           Shore hardness jacket         85 °S Shore A           Freedom from ingredients (jacket)         18.9 °S Shore A           Couler-diameter (jacket)         5.9 mm           Tolerance outer diameter (shealth)         2.5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material inner jacket         PVC           Amount wires         5           Amount wires         5           Shore hardness wire insulation         1,45 mm           Outer diameter insulation         1,45 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         85 °S Shore A           Material properties wire insulation         85 °S Shore A           Material given wire solve wire insulation         85 °S Shore A           Material gwires         0 1 mm           Conductor treesessed wire insulation         85 °	Stranding	5 wires around Core filler twisted
Banding		copper braid, tinned
Filter wire arrangement brown, black, blue, white, green-yellow Traversing distance (C-track) 5 m @ 25 ° ° C Cable weight 59.4 ym Material jacket PUR Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) 10 tead-free, cadmium-free, CFC-free, halogen-free  Vour-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) 1,5 % Material inner jacket PVC Corlo (inner jacket) 10 (or (inner jacket) 10 (or (inner jacket) 10 ter diameter insulation PVC Amount wire's 5 Couter diameter insulation 1,45 mm Outer diameter insulation 1,45 mm Outer diameter insulation 25 ± 5 Shore A Shore hardness wire insulation 85 ± 5 Shore A Shore hardness wire insulation 1,45 mm Outer diameter insulation 25 ± 5 Shore A Shore hardness wire insulation 26 ± 5 Shore A Shore hardness wire insulation 26 ± 5 Shore A Shore hardness wire insulation 26 ± 5 Shore A Shore hardness wire insulation 27 ± 5 Mm Duter diameter tolerance core insulation 28 ± 5 Shore A Shore hardness wire insulation 28 ± 5 Shore A Shore hardness wire insulation 28 ± 5 Shore A Shore hardness wire insulation 29 ± 5 Mm Duter diameter wire insulation 20 ± 5 Mm Duter diameter wire wire wire bare 20 ± 5 Mm Duter diameter wire wire wire wire wire wire wire wi	Cable shielding (coverage)	85 %
wire arrangement brown, black, blue, white, green-yellow  Traversing distance (C-track) 5 m @ 25 °C Zable welghl 59.4 p/m Material judetet PUR  Shore hardness jacket PUR  Shore hardness jacket Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free  Outer-diameter (jacket) 5,9 mm  Tolerance outer diameter (sheath) 2 5 % Material inner jacket PVC  Color (inner jacket) gray  Amount wires 5  Outer diameter insulation PVC  Amount wires 5  Outer diameter insulation 1,45 mm  Outer diameter insulation 2 5 %  Material wire insulation 9 €5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 9 €6 %  Diameter of single wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Material properties wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Material properties wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Material properties wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Shore hardness wire insulation 1 ± 5 %  Diameter of single wire insulation 1 ± 5 %  Diameter of single wire 1 ± 40 free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 4 ± 2  Material conductor wire 1 ± 40 free, cadmium-free, CFC-free, silicone-free  Conductor byte (wire) 1 ± 40 free, cadmium-free, CFC-free, silicone-free  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (wire - wire) 2 × 10 % 60 s  Power frequency willhaland voltage (wire - sheld) 1 to IN VDE 0298 4  Current load capacity min. wire 4 ± 5 A  Current load capacity will will and voltage (wire - sheld) 1 to IN VDE 0298 4  Curren	Banding	Fleece, Foil
Traversing distance (C-track)         5 m @ 25 °C           Cable weight         59.4 g/m           Material Jacket         PUR           Shore hardness Jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         59 mm           Cuter-diameter (jacket)         59 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Outer diameter insulation         1,45 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         85 ± 5 Shore A           Material properties wire insulation         85 ± 5 Shore A           Material properties wire insulation         164 free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Ingester of single wires         0,1 mm           Conductor type (wire)         42           Max: rated voltage (wire)         5 7 Mm @ 20 °C           Max. rated voltage (conductor - conductor)         300 V	Filler	yes
Cable weigth         59.4 g/m           Material jacket         PUR           Amount precidents (jacket)         85.5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         5.9 mm           Tolerance outer diameter (halbet)         ± 5%           Material linner jacket         PVC           Color (mer jacket)         gray           Amount wires         5           Outer diameter insulation         1.45 mm           Outer diameter tolerance ore insulation         1.45 mm           Outer diameter tolerance ore insulation         85 ± 5 Shore A           Material properties wire insulation         85 ± 5 Shore A           Material properties wire insulation         85 ± 5 Shore A           Material properties wire insulation         1 and free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor rossessedion (wire)         34 mm²           Max rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (init, wire) <t< td=""><td>wire arrangement</td><td>brown, black, blue, white, green-yellow</td></t<>	wire arrangement	brown, black, blue, white, green-yellow
Material jacket         FUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         5.9 mm           Outer-diameter (jacket)         5.9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material iner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         5           Outer diameter tolerance core insulation         1,45 mm           Outer diameter tolerance core insulation         85 ± 5 Shore A           Material properties wire insulation         85 ± 5 Shore A           Material properties wire insulation         80 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         80 ± 5 Shore A           Material properties wire insulation         180 ± 5 Shore A           Material properties wire insulation         180 ± 5 Shore A           Material properties wire insulation         180 ± 5 Shore A           Material properties wire insulation         180 ± 5 Shore A           Material properties wire insulation         180 ± 5 Shore A           Material properties wire insulation         180 ± 15 Shore A           Material properties	Traversing distance (C-track)	5 m @ 25 °C
Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,45 mm           Outer diameter tolerance core insulation         25 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor (ype (wire)         stranded copper wire, bare           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         10 IN VDE 0288-4           Current load capacity (standard)         10 IN VDE 0288-4           Current load capacity (wire - wire)         2 KV @ 60 s           Power fre	Cable weigth	59,4 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %.           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,45 mm           Outer diameter insulation         \$ %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient feeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount stranks (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 - 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         4.5 A           Electrical resistance line constant wire	Material jacket	PUR
Outer-dameter (jacket)         5,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,45 mm           Outer diameter lolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         god machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor presses wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor by (wire)         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         350 V           Max. rated voltage (conductor - ground)         350 V           Acting the presentity (static)	Shore hardness jacket	85 ± 5 Shore A
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free
Tolerance outer diameter (sheath)	Outer-diameter (jacket)	5,9 mm
Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         5           Outer diameter tolerance core insulation         1,45 mm           Outer diameter tolerance core insulation         \$ 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-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)         350 V           Max. rated voltage (conductor - conductor)         350 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 (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s		±5%
Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         5           Outer diameter tolerance core insulation         1,45 mm           Outer diameter tolerance core insulation         \$ 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-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)         350 V           Max. rated voltage (conductor - conductor)         350 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 (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s	Material inner jacket	PVC
Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,45 mm           Outer diameter tolerance core insulation         ±5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor orssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Okm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         -5 °C <td></td> <td>gray</td>		gray
Outer diameter insulation         1,45 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         4,5 A           Electrical resistance line constant wire         4,5 A           Electrical resistance line constant wire         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (d		
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor orssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 0/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min	Amount wires	5
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor orssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 0/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min		1.45 mm
Shore hardness wire insulation         85 ± 5 Shore A           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         -5 °C           Operating temperature (max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         -70 °C           Flame resistance		
Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         -6 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2           <		
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-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  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (conductor - ground) 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency 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  Filame resistance EC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (dynamic) 15 × Outer diameter  Bending radius (dynamic) 15 × Outer diameter		
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) 350 V  Max. rated voltage (conductor - ground) 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 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 (static) 40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance Ec 60332-2-2   UL 1581 § 1990   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 15 x Outer diameter  Bending radius (fixed) 15 x Outer diameter		,
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) 350 V  Max. rated voltage (conductor - ground) 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 4.5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance Elec Good, application-related testing  Oil resistance DIN EN 60811-404 [Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter		
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Max. rated voltage (conductor - conductor)  Gurrent load capacity (standard)  Current load capacity (standard)  Current load capacity min. wire  4.5 A  Electrical resistance line constant wire  Flow (Frequency withstand voltage (wire - wire)  2 kV @ 60 s  Power frequency withstand voltage (wire - shield)  1.5 kV @ 60 s  Min. operating temperature (static)  AC withstand voltage (wire - shield)  1.5 kV @ 60 s  Min. operating temperature (static)  AD °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  Elec 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  15 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter		
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 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 (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1000   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         10 x Outer diameter		
Conductor type (wire)       strand class 6         Max. rated voltage (conductor - conductor)       350 V         Max. rated voltage (conductor - ground)       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 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 (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       10 x Outer diameter		· · · · · · · · · · · · · · · · · · ·
Max. rated voltage (conductor - conductor) 350 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 4,5 A  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) 1,5 kV @ 60 s  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 10 x Outer diameter		
Max. rated voltage (conductor - ground)       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       1,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter		
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 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) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter		
Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 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 (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter		
Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - acket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 1.5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 15 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter		W 200 122 1200 1
AC withstand voltage (wire - wire)  2 kV @ 60 s  Power frequency withstand voltage (wire - 2 kV @ 60 s  AC withstand voltage (wire - shield)  1,5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter		
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  15 x Outer diameter		
AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  DIN EN 60811-404   Good, application-related testing  Bending radius (dynamic)  15 x Outer diameter		2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter		2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  DIN EN 60811-404   Good, application-related testing  Bending radius (dynamic)  15 x Outer diameter	AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)  70 °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter	Operating temperature min. (dynamic)	-5 °C
Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 10 x Outer diameter Bending radius (dynamic) 15 x Outer diameter	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter		IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter	chemical resistance	Good, application-related testing
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter	Gasoline resistance	
Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter		•
Bending radius (dynamic) 15 x Outer diameter		
	Travel speed (C-track)	0,1 Mio. @ 25 °C