

#### M8 male 0° / M8 female 90° A-cod.

PVC 3x0.25 bk UL/CSA 5m

Art.No.: 7000-88021-6100500

Weight: 0.145 Country of origin: US

Model designation: MSGL0-H-R610\_5.0

# Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

If you are missing technical information? Please feel free to use our dictionary to find more technical details.

#### **Product details:**

Male straight - female 90°

M8 - M8, 3-pole

Art-No. 7005 - M8 Lite - (plastic hexagonal screw) on request

Further cable lengths on request.

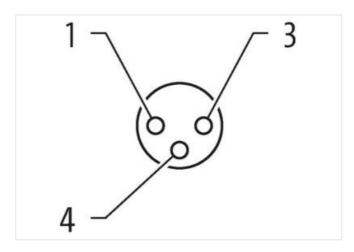
Plastic housings with good resistance against chemicals and oils.

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

## **Link to Product**

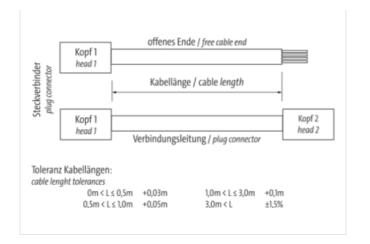
# Illustration

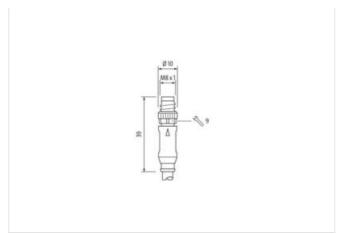


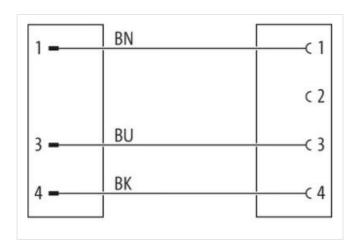


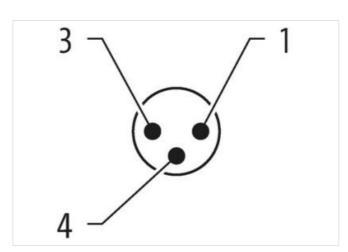


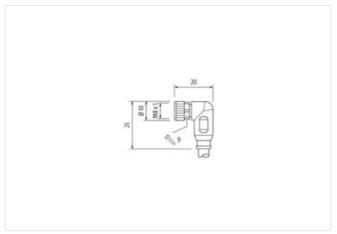
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Product may differ from Image











Cable length

5 m

Side 1

**Tightening torque** 

0,4 Nm



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Mounting method	inserted, screwed
Coating contact Family construction form	gold plated M8
Thread	M8 x 1
suitable for corrugated tube (internal Ø)	6,5 mm
Gender	male
Cable outlet	straight
Coding	A Connected to
Material contact	Copper alloy
Material	PUR
No. of poles	3
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M8
Thread	M8 x 1
Gender	female
suitable for corrugated tube (internal Ø)	6,5 mm
Cable outlet	angled
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	3
Width across flats	SW9
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-9.0 ECLASS-10.1	
ECLASS-10.1	27060311
ECLASS-11.1 ECLASS-12.0	27060311
	27060311
ETIM-5.0 customs tariff number	EC001855 85444290
customs tariff number  EAN	85444290 4048879128766
Packaging unit	4048879128766
Packaging unit Packaging unit	1
Electrical data   Supply	•
	TO V
Operating voltage AC max.	50 V
Operating voltage DC max.	60 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67, IP68, IP66K
, ,	

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: 2025-08-05



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Februlan Degree 3 Netherial group (IEC 00004-1) 1 Nochanical data   Material data   Material group (IEC 00004-1) 1 Nochanical data   Material data   Material process   Material data   Material possible   Material data   Mounting method   Inserted, screwed, Shaking protection   Environmental characteristics   Climatic   Operating temperature max.	Additional condition protection downs	inconted covering
Naterial group (IEC 6084-1)  Material proup (IEC 6084-1)  Material pouc (IEC 6084-1)  Material flouring  PUR  Cocking material  Conformally  Cocking material  Cocking materia	Additional condition protection degree	inserted, screwed
Merchanical group (IEC 60064-1)  Merchanical data   Material data  Material possible   Merchanical data   Material data  Material possible   Merchanical data   Mounting data  Mounting method   Merchanical data   Mounting data  Mounting method   Merchanical data   Mounting data  Mounting method   Merchanical data   Mounting data   Mounting data    Mounting method   Merchanical data   Mounting data   Mounting data    Mounting method   Merchanical data   Merchanical data   Merchanical data    Mounting method   Merchanical data   Merchanical data   Merchanical data    Mote on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by accessive bending forces.  Conformity    Product standard   DIN EN 61076-2-114 (MS)    Installation   Cable    Were arrangement   brown, black, blue    Data destriction:   Din 1    Backet Color   black    Vipe of Certificate   CUltus    Material packet   Merchanical    Method packet   Merchanical		
Mechanical data   Material data   Material data   Noticeled   Nickeled   Nickeled   Nickeled   Noticeled   Noticel		1,5 KV
Naterial housing PUR Conting locking Nickeled Nickeled Staterial gasket FKM Locking material Zinc dis-casting Mechanical data   Mounting data Nounting method Inserted, screwed, Shaking protection Environmental characteristics   Climatic Diperating temperature min30 °C Diperating temperature min30 °C Diperating temperature max. 85 °C Additional condition temperature may. 46 °C Diperating temperature max. 85 °C Additional condition temperature range Important installation notes  Whose on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bending radius Altention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard In Installation (Abbet Installation) (Abbe		
Coating locking  Nickeled  FKM  Cocking material  Zinc die-casting  Mechanical data   Mounting data  Mounting method  Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating temperature min.  30 ° 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  Conformity  Product standard  DIN EN 61076-2-114 (M8)  Installation   Cable  wire arrangement  brown, black, blue  Cable Installation  Cable Type  1  1  1  1  1  1  1  1  1  1  1  1  1	Mechanical data   Material data	
Material gasket FKM Cocking material Cocking material Mounting method Inserted, screwed, Shaking protection Environmental characteristics   Climatic Departing temperature min.  -90 °C Departi	Material housing	PUR
Locking material Mechanical data   Mounting data Mechanical data   Mounting data Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climatic Deparating temperature min.  80° C Additional condition temperature range 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 Altention: Observe the permissible bending radii when laying cables, as the IP protection class can be ordangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-114 (MS) Installation   Cable virie arrangement Date   Din EN 61076-2-114 (MS) Date   Type 1 1 2acket Cotor Date   Type 1 1 2acket Cotor Date   Type 1 2acket Cotor Date   Type 23.7 g/m Waterial jacket Drown, black, blue Cable weight Date   Drown, black, blue Cab	Coating locking	Nickeled
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatio   Operating temperature min.	Material gasket	FKM
Inserted   Shaking protection	Locking material	Zinc die-casting
Environmental characteristics   Climatic Operating temperature min.	Mechanical data   Mounting data	
Operating temperature min30 °C Operating temperature max. 85 °C Operating 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 61076-2-114 (M8) Installation   Cable  wire arrangement brown, black, blue Cable Installation   Cable  wire arrangement brown, black, blue Cable Type 1 1 Cable Color black Type of Certificate CURus  Amount stranding 1 1 Stranding 3 wires twisted  wire arrangement brown, black, blue Cable Weight 29,37 g/m  Material glock PVC  Shore hardness jacket 65 ± 5 Shore A Freedom from ingredients (jacket) 4,5 mm  Colerance outer diameter (sacket) ± 5 %  Material write insulation PVC  Amount strands wire insulation PVC  Amount wire insulation 1,25 mm  Duter diameter function (see and insulation profession of the sulation profession of th	Mounting method	inserted, screwed, Shaking protection
Operating temperature max. 45 °C depending on cable quality Important installation notes of 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 61076-2-114 (MB) Installation (Cable wite arrangement brown, black, blue cable identification 610 cable Type 1 lacket Color black Cype of Certificate cURus Amount stranding 1 swires twisted viterarrangement brown, black, blue cable ledentification 3 wires twisted viterarrangement brown, black, blue cable ledentification 4 provided the current backet Color black (Cype of Certificate cURus Amount stranding 1 stranding 3 wires twisted viterarrangement brown, black, blue 29,37 g/m Material jacket PVC Shore hardness jacket 85 ± 5 Shore A [seed-free, cadminum-free, CFC-free, silicone-free Dutter-diameter (jacket) 4,5 mm  Coluter diameter (jacket) 4,5 mm  Duter diameter (jacket) 4,5 mm  Duter diameter (jacket) 45 Shore D (jacket) 1,25 mm  Duter diameter insulation PVC (jacket) 1,25 mm  Duter diameter insulation 1,25 mm  Duter diameter (sheath) 4 ± 5 % (jacket) 1,25 mm  Duter diameter (sheath) 2,25 mm  Material properties wire insulation 1,25 mm  Duter diameter (sheath) 2,25 mm  Material properties wire insulation 1,25 mm  Duter diameter (sheath) 2,25 mm  Material properties wire insulation 1,25 mm  Duter diameter (sheath) 2,25 mm  Duter diameter (sheath) 3,25 mm  Duter diameter (sheath) 3,25 mm  Duter diameter (sheath) 4,5 mm  Duter diameter (sheath) 4,5 mm  Duter diameter (sheath)	Environmental characteristics   Climatic	
depending on cable quality Important installation notes  Note on strain relief 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 61076-2-114 (M8) Installation   Gable  wire arrangement brown, black, blue 2able identification 510 2able identification 510 2able identification 510 2able identification 511 3 wires twisted  wire arrangement brown, black, blue 2blacket Color black Cupration of the c	Operating temperature min.	-30 °C
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 61076-2-114 (M8)  Installation   Cable  wire arrangement brown, black, blue Cable (dentification 610  Cable (Type 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Operating temperature max.	85 °C
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-114 (MB)  Installation   Cable    wire arrangement brown, black, blue   Cable identification   610   Cable Type   1   Lacket Color black   L	Additional condition temperature range	depending on cable quality
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-114 (MB)  Installation   Cable    wire arrangement brown, black, blue   Cable identification   610   Cable Type   1   Lacket Color black   L		· · · · ·
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 61076-2-114 (M8)  Installation   Cable  wire arrangement brown, black, blue  Cable Identification 610  Cable Type 1  Jacket Color black  Type of Certificate CURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weight 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) 14,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Duter diameter unsulation 45 ± 5 Shore D  Material properties wire insulation 1,25 mm  Duter diameter tolerance core insulation 1,25 mm  Duter diameter tolerance core insulation 1,25 mm  Duter diameter insulation 1,25 mm  Duter diameter freeness wire insulation 1,25 mm  Duter diameter freeness wire insulation 1,25 mm  Duter diameter freeness wire insulation 1,25 mm  Duter diameter tolerance core insulation 1,25 mm  Duter diameter of single wires 0,15 mm  Conductor treeness wire insulation 1,25 mm  Material properties wire insulation 1,25 mm  Duter diameter of single wires 0,15 mm  Conductor crosssection (wire) 1,4  Diameter of single wires 0,15 mm  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) Strand class 5  Courrent load capacity (standard) 1, DIN VDE 0298-4  Current load capacity min. wire 4,5 A	•	District the control by withhis meaning from the best of the control of the contr
endangered by excessive bending forces.  Conformity  Product standard  DIN EN 61076-2-114 (M8)  Installation   Cable  Wire arrangement  Dable identification  Eable identification  Eable identification  Eable (Color  Dlack  Type of Certificate  URus  Amount stranding  1  Stranding  3 wires twisted  wire arrangement  Drown, black, blue  Eable weight  29.37 g/m  Material jacket  PVC  Shore hardness jacket  Ereedom from ingredients (jacket)  Doller-diameter (jacket)  Amount wires  3  Duter diameter insulation  PVC  Amount wires  3  Duter diameter tolerance core insulation  Lead-free, candilum-free, CFC-free, silicone-free  Duter diameter tolerance core insulation  As ± 5 Shore D  Material properties wire insulation  Material properties wire insu	Note on strain relief	
Product standard DIN EN 61076-2-114 (M8)  Installation   Cable wire arrangement brown, black, blue  Cable dentification 610  Cable Type 1  Jacket Color black Type of Certificate cURus Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC Shore hardness jacket 85 £ 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Duter-diameter (jacket) 4,5 mm  Duter diameter sheath) £ 5 %  Material wire insulation PVC  Amount wires 3  Duter diameter tolerance core insulation 45 £ 5 Shore D  Material price wire insulation 45 £ 5 Shore D  Material price wire insulation 45 £ 5 Shore D  Material price wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Duter diameter tolerance core insulation 45 £ 5 Shore D  Material projects wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  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	Note on bending radius	
Installation Cable         brown, black, blue           Cable dentification         610           Cable Type         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Duter-diameter (jacket)         4,5 mm           Folerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Duter diameter insulation         1,25 mm           Duter diameter tolerance core insulation         4 ± 5 %           Material properties wire insulation         4 ± 5 5 Shore D           Material properties wire insulation         4 ± 5 5 Shore D           Outer diameter tolerance core insulation         4 ± 5 5 Shore D           Amount strands (wire)         14           Diameter of single wires wire insulation         god machinability           <	Conformity	
brown, black, blue	Product standard	DIN EN 61076-2-114 (M8)
Cable Identification         610           Cable Type         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weight         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Duter-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Duter diameter insulation         1,25 mm           Duter diameter tolerance core insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare      <	Installation   Cable	
Cable Type         1           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,37 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Duter-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         14           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Strand class 5      <	wire arrangement	brown, black, blue
Dacket Color black Type of Certificate cURus Amount stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigth 29,37 g/m Material jacket PVC Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Duter-diameter (jacket) 4,5 mm Duter diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Material properties wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard)	Cable identification	610
Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,37 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nowman 1,5 A Million Strands (Strand 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 4,5 A	Cable Type	1
Amount stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigth 29,37 g/m Material jacket PVC Shore hardness jacket PVC Shore hardness jacket lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Outer diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Jacket Color	black
Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigth 29,37 g/m Material jacket PVC Shore hardness jacket PVC Shore hardness jacket 1624-free, cadmium-free, CFC-free, silicone-free Duter-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Duter diameter insulation 1,25 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded capper wire, bare Conductor type (wire) Stranded capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Type of Certificate	cURus
brown, black, blue Cable weigth 29,37 g/m Material jacket PVC Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Amount stranding	1
Cable weigth 29,37 g/m Material jacket PVC Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Stranding	3 wires twisted
Material jacket PVC Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	wire arrangement	brown, black, blue
Shore hardness jacket  85 ± 5 Shore A Freedom from ingredients (jacket)  Lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket)  4,5 mm  Folerance outer diameter (sheath)  Description of the silicone outer diameter (sheath)  45 %  Material wire insulation  PVC  Amount wires  3  Outer diameter insulation  Duter diameter tolerance core insulation  Duter diameter tolerance core insulation  A5 ± 5 Shore D  Material properties wire insulation  Material properties wire insulation  Ingredient freeness wire insulation  Ingredient freeness wire insulation  Lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire)  I4  Diameter of single wires  O,15 mm  Conductor crosssection (wire)  O,25 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A	Cable weigth	29,37 g/m
Freedom from Ingredients (jacket)  Outer-diameter (jacket)  4,5 mm  Folerance outer diameter (sheath)  5 %  Material wire insulation  PVC  Amount wires  3  Outer diameter insulation  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  5 %  Shore hardness wire insulation  45 ± 5 Shore D  Material properties wire insulation  good machinability  ingredient freeness wire insulation  14  Diameter of single wires  0,15 mm  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A	Material jacket	PVC
Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 3 Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Shore hardness jacket	85 ± 5 Shore A
Folerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 3 Duter diameter insulation 1,25 mm  Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material wire insulation PVC  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Outer-diameter (jacket)	4,5 mm
Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  ± 5 %  Shore hardness wire insulation  45 ± 5 Shore D  Material properties wire insulation  good machinability  Ingredient freeness wire insulation  lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire)  14  Diameter of single wires  O,15 mm  Conductor crosssection (wire)  0,25 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  4,5 A	Material wire insulation	PVC
Outer diameter insulation  Duter diameter tolerance core insulation  45 ± 5 Shore D  Material properties wire insulation  Material properties wire insulation  Ingredient freeness wire insulation	Amount wires	3
Shore hardness wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Outer diameter insulation	1,25 mm
Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 14  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Shore hardness wire insulation	45 ± 5 Shore D
Amount strands (wire)  Diameter of single wires  O,15 mm  Conductor crosssection (wire)  O,25 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A	Material properties wire insulation	good machinability
Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Amount strands (wire)	14
Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Diameter of single wires	0,15 mm
Conductor type (wire)  Strand class 5  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A	Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Conductor type (wire)	Strand class 5
Current load capacity min. wire 4,5 A	Nominal voltage AC max.	300 V
	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 79 Ω/km @ 20 °C	Current load capacity min. wire	4,5 A
	Electrical resistance line constant wire	79 Ω/km @ 20 °C



AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 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)	80 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter