

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

PVC 5x0.34 shielded gy UL/CSA 7.5m

Female 90° M12, 5-pole shielded

with cable sleeves

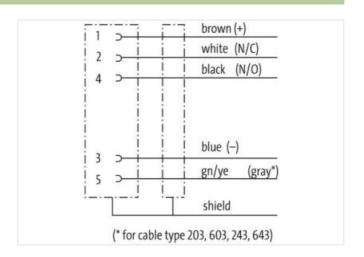
Plastic housings with good resistance against chemicals and oils.

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

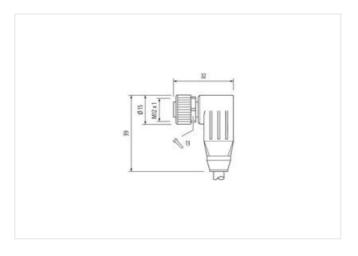
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

7,5 m

Side 1

Tightening torque

0,6 Nm



stay connected

Mounting method Coating contact Family construction form Thread Coding Material contact Material No. of poles Width across flats Degree of protection (EN IEC 60529) Side 2 Stripping length (jacket) Coating contact Commercial data ECLASS-6.0 ECLASS-7.0	gold plated M12 M12 x 1 A Copper alloy PUR 5 SW13 IP65, IP66K, IP67
Family construction form Thread Coding Material contact Material No. of poles Width across flats Degree of protection (EN IEC 60529) Side 2 Stripping length (jacket) Coating contact Commercial data ECLASS-6.0 ECLASS-6.1	M12 M12 x 1  A Copper alloy PUR 5 SW13 IP65, IP66K, IP67
Thread Coding Material contact Material No. of poles Width across flats Degree of protection (EN IEC 60529) Side 2 Stripping length (jacket) Coating contact Commercial data ECLASS-6.0 ECLASS-6.1	A Copper alloy PUR 5 SW13 IP65, IP66K, IP67
Material contact  Material No. of poles  Width across flats  Degree of protection (EN IEC 60529)  Side 2  Stripping length (jacket)  Coating contact  Commercial data  ECLASS-6.0  ECLASS-6.1	Copper alloy PUR 5 SW13 IP65, IP66K, IP67
Material No. of poles Width across flats Degree of protection (EN IEC 60529) Side 2 Stripping length (jacket) Coating contact Commercial data ECLASS-6.0 ECLASS-6.1	PUR 5 SW13 IP65, IP66K, IP67 20 mm
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Width across flats  Degree of protection (EN IEC 60529)  Side 2  Stripping length (jacket)  Coating contact  Commercial data  ECLASS-6.0  ECLASS-6.1	SW13 IP65, IP66K, IP67 20 mm
Width across flats  Degree of protection (EN IEC 60529)  Side 2  Stripping length (jacket)  Coating contact  Commercial data  ECLASS-6.0  ECLASS-6.1	IP65, IP66K, IP67 20 mm
Degree of protection (EN IEC 60529)  Side 2  Stripping length (jacket)  Coating contact  Commercial data  ECLASS-6.0  ECLASS-6.1	20 mm
Side 2 Stripping length (jacket) Coating contact Commercial data ECLASS-6.0 ECLASS-6.1	20 mm
Coating contact  Commercial data  ECLASS-6.0  ECLASS-6.1	
Coating contact  Commercial data  ECLASS-6.0  ECLASS-6.1	
Commercial data  ECLASS-6.0  ECLASS-6.1	9 · ·   · · · · · ·
ECLASS-6.0 ECLASS-6.1	
ECLASS-6.1	
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LC1 ACC 7 D	27279218
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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	4048879710640
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Installation   Connection	
Stripping length (jacket)	20 mm
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	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	



Exerviormental characteristics   Climate   Ciperating temperature max.   S5 °C Additional condition temperature range   Conforming temperature range   Conforming temperature range   Conforming temperature range   Product standard   DIN EN 61076-2-101 (M12)  Installation   Cable Ins	Mounting method	inserted, screwed, Shaking protection	
Operating temperature max. 85 °C Additional condition temperature range on exible quality  Conformity  Product standard DIN EN 61076-2-101 (M12)  Institution (Cable  Cable identification 203 Cable Type 1 Lacklet Color gray  Type of Certificate cluffus Amount stranding 1 Type of Certificate cluffus Amount stranding 1 Swines around Core filler twisted Cable shelding (type) copper braid, fineed Cable shelding (type) clude (type) copper braid, fineed Cable shelding (type) clude (	Environmental characteristics   Climatic		
Additional condition temperature range depending on cable quality  Product standard  DIN En 61076.2.101 (M12)  Installation   Cable  Cable identification   203  Cable identification   204  Cable identification   204  Cable identification   205  Cable ide	Operating temperature min.	-25 °C	
Product standard  DIN EN 61076-2-101 (M12)  Product standard  Cable (Spe  Cable (Spe)  1  Jasket Color  gray  Type of Certification  Cable Type  1  Stranding  5 wires around Core filter twisted  Cable shelding (spe)  Swe arrangement  Drown, black, blue, white, gray  Vere arrangement  Drown, black, blue, white, gray  Cable weight  Sig S S Shore A  Shore Narffress (saket)  Shore Arrangement  Drown demander (gacket)  Drown demander (gacket)  Drown demander (gacket)  Drown demander (saket)  S S Shore A  Material prove resultation  PVC  Arround strander (saket)  Arround strander insulation  Arround strander insulation  Arround strander insulation  J S Shore D  Material proversies wire insulation  J S Shor	Operating temperature max.	85 °C	
Installation   Cable	Additional condition temperature range	depending on cable quality	
Cable Infection Cable Cable Infection 203 Cable Type 1 Janked Color gridy Type of Certificate CURUS Amount stranding 1 Stranding 5 verse around Core filter Invisited Cable Shelding (type) copper braid, timed Cable weight Flore yes wire arrangement brown, black, blue, white, gray Cable weight Shelding (type) copper braid, timed Cable weight Shelding (type) Cable dameter (takete) Cable dameter (takete) Cable dameter (takete) Called d	Conformity		
Cable Infection Cable Cable Infection 203 Cable Type 1 Janked Color gridy Type of Certificate CURUS Amount stranding 1 Stranding 5 verse around Core filter Invisited Cable Shelding (type) copper braid, timed Cable weight Flore yes wire arrangement brown, black, blue, white, gray Cable weight Shelding (type) copper braid, timed Cable weight Shelding (type) Cable dameter (takete) Cable dameter (takete) Cable dameter (takete) Called d		DIN EN 61076-2-101 (M12)	
Cable (dertification         203           Cable Type         1           Jacket Color         gray           Type of Certificate         CUPUs           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable sheldring (type)         copper braid, timed           Cable sheldring (type)         60 %           Barding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68.2 g/m           Material jacket         P/C           Shore hardness jacket         85.2 f/m           Freedon from ingredients (jacket)         85.4 f/m           Colust-diameter (jacket)         5.5 f/m           Tolerance outler diameter (related)         5.5 f/m           Amount wires         5           Outler diameter (related)         2.5 f/m           Amount wires         5           Shore hardness wire insulation         1,25 mm           Ingredient freeness wire insulation         2.5 f/m           Ingredient freeness wire insulation         1,25 mm           Ingredient freeness wire insulation         1,25 mm           Ingredient freeness wire			
Cable Type		202	
Jacket Color			
Type of Certificate			
Amount stranding			
Stranding 5 wires around Core filler twisted Cable shielding (type) copper braid, sinxed Cable shielding (coverage) 80 % Banding Fleece, Foil Filler yes wire arrangement brown, black, blue, white, gray Cable weight 68.2 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) ± 5 % Material wire insulation PVC Amount wires 5 Cuter diameter insulation PVC Amount wires 5 Cuter diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter wire insulation 45 ± 5 % Shore hardness wire insulation 45 ± 5 % Shore hardness wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 0,34 mm² Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Current load capacity riin, wire 4.5 A Current load capacity riin, wire 4.5 A Current load capacity riin, wire 4.5 A Current load capacity with stand voltage power (wire - shield) 57 Dkm @ 20 °C Nominal voltage power (wire - shield) 80 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 5° °C Operating temperature min. (dynamic) 6000, application-related testing Gasoline resistance Good, application-related testing			
Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Barding         Fleece, Foll           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigh         68 2 g/m           Material jacket         PVC           Shore hardness jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         16 mm           Outer-diameter (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         PVC           Amount sitrands wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         [ead-free, cadmitum-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor (rosssection (wire)         0,34 mm²           Material conductor wire         Strand class 5           Current load capacity (standard)         to DIN VDE 0298-4 <tr< td=""><td></td><td></td></tr<>			
Banding   Fleece, Foll			
Flier   yes   y			
Filler yes wire arrangement brown, black, blue, white, gray wire arrangement brown, black, blue, white, gray  Gable weight 68.2 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) 5,6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 5  Outer diameter insulation 1,25 mm  Outer diameter insulation 45 ± 5 Shore D  Material properties wire insulation good machinability Ingredient freeness wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,34 mm²  Material orductor wire Stranded copper wire, barre  Conductor type (wire) Strand class 5  Current load capacity (slandard) to DIN VDE 0298-4  Current load capacity (slandard) to DIN VDE 0298-4  Electrical resistance line constant wire 57 Q/km @ 20 °C  Nominal voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - shield) -30 °C  Max. operating temperature (static) -50 °C  Operating temperature max. (dynamic) -5 °C  Operating temperature discendence -5 °C  Operating temperature discendence -5 °C  Operating temperature discendence -5			
wire arrangement brown, black, blue, white, gray Cable weigth 68.2 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) 5.6 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter insulation 45 ± 5 Shore D 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) 19 Diameter of single wires 0,15 mm Outer diameter of single wires 0,15 mm Onductor or ossescetion (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) 5 Strand class 5 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Q/km @ 20 °C Nominal voltage power (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Max. operating temperature (static) -60 °C Operating temperat	5		
Cable weight         68,2 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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter loreance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           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)		<del>`</del>	
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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free			
Shore hardness jacket 85 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 5.6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 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) 19  Diameter of single wires 0,15 mm  Conductor orisssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor wire (Stranded copper wire, bare  Conductor wire (Stranded copper wire, bare  Conductor wire (Stranded copper wire, bare  Conductor strands (wire) 15 NVDE 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  Current load capacity (standard) 2 kV @ 60 s  Fleetrical resistance line constant wire 57 O/km @ 20 °C  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - shield) 30 °C  Max. operating temperature (static) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature min. (dynamic) 80 °C  Flame resistance Good, application-related testing  Gaodine resistance Good, application-related testing			
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5,6 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PVC Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter 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) 19 Diameter of single wires 0,15 mm Conductor orssection (wire) 0,34 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 min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power (wire - shield) Power frequency withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - shield) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - shield) AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -0.90 °C Max. operating temperature (static) -0.90 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (dynamic)			
Outer-diameter (jacket)         5,6 mm           Tolorance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter lolerance core insulation         ± 5 %           Shore hardness wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           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           Nominal voltage power (wire - shield)         2 kV @ 60 s           Power frequency withstand voltage power (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           AC withstand voltage power (wire - wire)         2 kV @ 60 s           Min. operating temperature (fixed)         30 °C			
Tolerance outer diameter (sheath)			
Material wire insulation         PVC           Amount wires         5           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         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           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           Nominal voltage power AC max.         300 V           AC withstand voltage power (wire - shield)         2 kV @ 60 s           Power frequency withstand voltage power (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)         -30 °C           Max. operating temperature min. (dynamic)			
Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter 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) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 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 Max. operating temperature (static) 30 V @ 60 s Min. operating temperature (static) 30 °C Max. operating temperature (static) 40 °C Chemical repestance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing			
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)       19         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       57 Q/km @ 20 °C         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - wire)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C         Flame resistance       UL 1581 § 1990   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing			
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)       19         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       57 Q/km @ 20 °C         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - wire)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       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)       -5 °C         Operating temperature max. (dynamic)       -5 °C <td< td=""><td></td><td></td></td<>			
Material properties wire insulation     good machinability       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     19       Diameter of single wires     0,15 mm       Conductor crosssection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     Strand class 5       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       Nominal voltage power AC max.     300 V       AC withstand voltage power (wire - shield)     2 kV @ 60 s       Power frequency withstand voltage power (wire - shield)     2 kV @ 60 s       AC withstand voltage power (wire - wire)     2 kV @ 60 s       AC withstand voltage power (wire - wire)     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       Flame resistance     UL 1581 § 190   IEC 60332-2-2   UL 1581 § 1100 FT2       chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing	Outer diameter tolerance core insulation		
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) Strand class 5  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  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - wire) 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  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	Shore hardness wire insulation	45 ± 5 Shore D	
Amount strands (wire)       19         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         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         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - wire)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (static)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       80 °C         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	Material properties wire insulation	good machinability	
Diameter of single wires  O,15 mm  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  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  Nominal voltage power (wire - shield)  2 kV @ 60 s  Power frequency withstand voltage power (wire - shield)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  AS °C  Operating temperature (fixed)  80 °C  Operating temperature max. (dynamic)  80 °C  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	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free	
Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         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         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - wire)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       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         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	Amount strands (wire)	19	
Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         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         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - wire)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       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         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	Diameter of single wires	0,15 mm	
Conductor type (wire)  Strand class 5  Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  57 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  AC withstand voltage power (wire - shield)  2 kV @ 60 s  Power frequency withstand voltage power (wire - wire)  2 kV @ 60 s  AC withstand voltage power (wire - wire)  2 kV @ 60 s  Min. operating temperature (fixed)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  5 °C  Operating temperature max. (dynamic)  80 °C  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	Conductor crosssection (wire)	0,34 mm <sup>2</sup>	
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  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 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  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	Material conductor wire	Stranded copper wire, bare	
Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         AC withstand voltage power (wire - shield)       2 kV @ 60 s         Power frequency withstand voltage power (wire - jacket)       2 kV @ 60 s         AC withstand voltage power (wire - wire)       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         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	Conductor type (wire)	Strand class 5	
Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  AC withstand voltage power (wire - shield) 2 kV @ 60 s  Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s  AC withstand voltage power (wire - wire) 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  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	Current load capacity (standard)	to DIN VDE 0298-4	
Nominal voltage power AC max.  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - shield)	Current load capacity min. wire	4,5 A	
AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)  2 kV @ 60 s  AC withstand voltage power (wire - wire)  2 kV @ 60 s  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  80 °C  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	Electrical resistance line constant wire	57 Ω/km @ 20 °C	
Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - wire)  AC withstand voltage power (wire - wire)  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  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	Nominal voltage power AC max.	300 V	
AC withstand voltage power (wire - wire) 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  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	AC withstand voltage power (wire - shield)	2 kV @ 60 s	
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Gasoline resistance  Good, application-related testing  Gasoline resistance		2 kV @ 60 s	
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 80 °C  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		2 kV @ 60 s	
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  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	Min. operating temperature (static)	-30 °C	
Operating temperature max. (dynamic) 80 °C  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	Max. operating temperature (fixed)	80 °C	
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	Operating temperature min. (dynamic)	-5 °C	
chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing	Operating temperature max. (dynamic)	80 °C	
Gasoline resistance Good, application-related testing	Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2	
	chemical resistance	Good, application-related testing	
Oil resistance DIN EN 60811-404   Good, application-related testing	Gasoline resistance	- 11	
	Oil resistance	DIN EN 60811-404   Good, application-related testing	



Bending radius (fixed)

10 x Outer diameter