

## M8 male $0^{\circ}$ / M8 female $90^{\circ}$ A-cod. snap-in LED

PUR 3x0.25 gy UL/CSA+drag ch. 1m

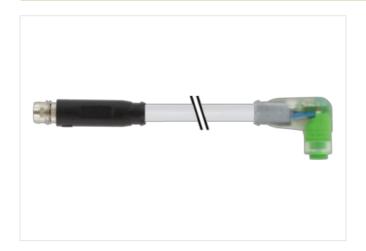
Male straight – female 90°
M8 (Snap In) – M8 (Snap In), 3-pole
2× LED (PNP), (NPN) on request
Further cable lengths on request.

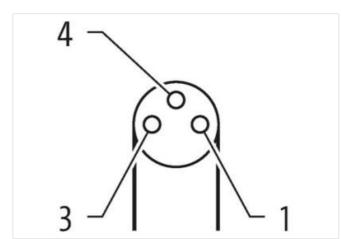
Plastic housings with good resistance against chemicals and oils.

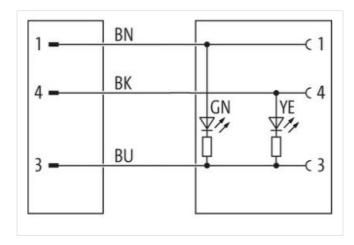
The resistance to aggressive media should be individually tested for your application. Further details on request.

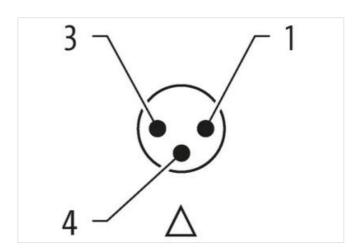
## **Link to Product**

## Illustration



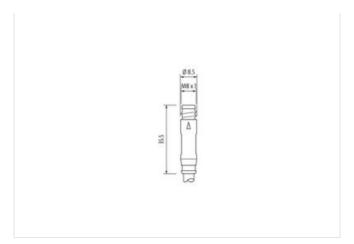


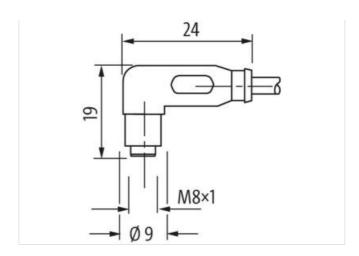






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Product may differ from Image











Cable length	1 m
Side 1	
Thread	M8
suitable for corrugated tube (internal Ø)	6,5 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879124775
Packaging unit	1
Electrical data   Supply	
Electrical data   Supply Operating voltage DC	24 V
Operating voltage DC Operating voltage DC min.	24 V 18 V
Operating voltage DC Operating voltage DC min. Operating voltage DC max.	
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed)	18 V
Operating voltage DC Operating voltage DC min. Operating voltage DC max.	18 V 30 V
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed)	18 V 30 V 30 V
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed) Current operating per contact max.	18 V 30 V 30 V
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed) Current operating per contact max.  Diagnostics	18 V 30 V 30 V 4 A
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed) Current operating per contact max.  Diagnostics Status indication LED	18 V 30 V 30 V 4 A
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed) Current operating per contact max.  Diagnostics Status indication LED  Device protection   Electrical	18 V 30 V 30 V 4 A green, yellow
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. Operating voltage DC max. (UL-listed) Current operating per contact max.  Diagnostics Status indication LED  Device protection   Electrical  Degree of protection (EN IEC 60529)	18 V 30 V 30 V 4 A green, yellow
Operating voltage DC Operating voltage DC min. Operating voltage DC max. Operating voltage DC max. (UL-listed) Current operating per contact max.  Diagnostics Status indication LED  Device protection   Electrical  Degree of protection (EN IEC 60529) Additional condition protection degree	18 V 30 V 30 V 4 A green, yellow  IP65 inserted, locked



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Nochanical data   Mounting data Looking techniques Environmental characteristics   Climate Environmental characteristics   Climate Coperating temperature min. 425 °C Coperating temperature may. 85 °C Conditional condition temperature may depending on cable quality Conformity  Product standard DNE   61076.2.114 (M8) Installation   Cabb  Cable identification 230 Cable Type 3 3 Cable Type 3 7 Cable Type 3 7 Cable Type 3 7 Cable Carlos	Mechanical data   Material data	
Looking techniques Shap In  Environmental characteristics   Climatic    Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Product standard DIN EN 61078-2-114 (M8)  Installation   Cabbe    Cable identification 230  Cable identification 230  Cable identification 230  Cable identification 240  Cable identification 240  Cable identification 240  Cable identification 240  Cable identification 340  Cable identif	Material housing	PUR
Looking techniques Shap In  Environmental characteristics   Climatic    Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Product standard DIN EN 61078-2-114 (M8)  Installation   Cabbe    Cable identification 230  Cable identification 230  Cable identification 230  Cable identification 240  Cable identification 240  Cable identification 240  Cable identification 240  Cable identification 340  Cable identif	Mechanical data   Mounting data	
Provisionmental characteristics   Climatic	· · · · · · · · · · · · · · · · · · ·	Span in
Operating temperature min25 °C Operating temperature max. 65 °C Operating temperature max. 67 °C 90 °C © 10000 h Operation Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. 65 °C Operating temperature max. 67 °C Operating temperature max. 67 °C Operating temperature max. (dynamic) Operating temperature max.		опар пт
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Product standard DIN EN 61078-2-114 (M8)  Installation (Cable  Cable identification 230 Cable identification 230 Cable (Fype 3 3 Cable (Fype 3 3) Cable (Correction 3) Cable (Correcti		
Additional condition temperature range depending on cable quality  Conformity  Product standard  DIN EN 61076-2-114 (M8)  Installation Cable  Cable Installation Cable  Cable Installation Cable  3 3  Jacket Golor gray  June Cartificate CURSUS  Amount stranding 1  Stranding 3 wrise twisted depending gydes (C-track)  To Money Cartificate CURSUS  Amount stranding 1  Stranding 3 wrise twisted depending gydes (C-track)  To Money Cartificate CURSUS  Amount stranding 1  Stranding 3 wrise twisted depending gydes (C-track)  To Money Cartificate CURSUS  Amount stranding 1  To Market Jacket 1  PUR  Shore hardness jacket 1  PUR  Shore hardness jacket 1  PUR  Shore hardness jacket 1  Shore (C-track) 1  Couler diameter (festeath) 4-1, mm  Jourer diameter (festeath) 4-5, mm  Jourer diameter insulation PP  Amount write a 3  Couler diameter insulation 1, 25 mm  Jourer dia	<u> </u>	
Conformity         Conformity           Product standard         DIN EN 61078-2-114 (M8)           Installation   Cable	· · ·	
Installation   Cable	Additional condition temperature range	depending on cable quality
Installation   Cable   Cable identification   230   Jacket Color   gray   Type of Certificate   CURus   Amount stranding   1   Stranding   3 wines twisted   Wire arrangement   brown, black, blue   No. of bending cycles (C-track)   10 Mio. @ 25 °C   Cable weight   26,4 g/m   Material jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   4,1 mm   Tolerance outer diameter (sheath)   ± 5 %   Material wire insulation   PP   Material insulation   PP   Material insulation   PP   Material insulation   1,25 mm   Outer diameter (sheath)   ± 5 %   Material wire insulation   1,25 mm   Outer diameter (sheath)   ± 5 %   Material wire insulation   1,25 mm   Outer diameter (sheath)   ± 5 %   Material wire insulation   1,25 mm   Outer diameter (sheath)   ± 5 %   Material wire insulation   1,25 mm   Outer diameter (sheath)   2 5 Shore D   Ingredient freeness wire insulation   1 ded-free, cardmium-free, CFC-free, halogen-free, silicone-free   Material wire insulation   1,25 mm   Outer diameter (sheath)   2 5 Shore D   Ingredient freeness wire insulation   1 5 %   Material wire of the sheath   1 mm   Material conductor wire   1 mm   Material conductor wire   2 5 Shore D   Diameter of single wire   0,25 mm²   Material wire official wire   0,25 mm²   Material conductor wire   0,25 mm²   Material wire preventive (staticus)   0,00 m   0,00 m   Material wire preventi	Conformity	
Cable Type         3           Jacket Cofor         gray           Type of Certificate         CURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           No. of bending cycles (C-track)         10 Mio. Ø 25 °C           Cable weight         28.4 gm           Material jacket         PUR           Shore hardness jacket         95.5 Shore A           Freedom from predents (jacket)         96.5 Shore A           Outer diameter (jacket)         4,1 mm           Tolerance outer diameter (shealth)         4.5 %           Material wire insulation         PP           Outer diameter insulation         PP           Outer diameter insulation         PP           Outer diameter insulation         PP           Amount wires         3           Outer diameter insulation         70.5 Shore D           Ingredient freeness wire insulation         10.1 mm           Conductor or cosssection (wire)         32 <td>Product standard</td> <td>DIN EN 61076-2-114 (M8)</td>	Product standard	DIN EN 61076-2-114 (M8)
Cable Type         3           Jacket Color         gray           Uppe of Certificate         CURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weight         26,4 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freadom from Ingredients (jacket)         lead free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         9P           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         164 free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wire         0,1 mm           Conductor type (wire)         5 %           Material cond	Installation   Cable	
Jackel Color Type of Certificate URsus  Wire arrangement Drown, black, blue No. of bending cycles (C-track) Drown, black, blue Drown, blue	Cable identification	230
Jacket Color         gray           Type of Certificate         CURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           No. of bending cycles (C-track)         10 Mio @ 25 °C           Cable weigh         26,4 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4.1 mm           Tolerance outer diameter strained amater (sheath)         ± 5 %.           Material wire insulation         PP           Amount wires         3           Outer diameter industrion         1.25 mm           Outer diameter insulation         70 ± 5 Shore D           Outer diameter swire insulation         70 ± 5 Shore D           Shore hardness wire insulation         20 ± 5 Shore D           Outer diameter of single wires         0,1 mm           Conductor troesses wire insulation         10 ± 5 Shore D           Barrier of single wires         0,1 mm           Conductor tryler (wire)         32           Diameter of single wires         0,1 mm	Cable Type	3
Type of Certificate cURus  Amount stranding 1  Amount stranding 3 wires twisted  brown, black, blue  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Cable weight 26,4 g/m  Material jacket PUR  Shore hardness jacket PUR  Amount fire insulation PP  Amount wires 3  Outer diameter (jacket) ± 5 %  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter insu	Jacket Color	gray
Amount stranding         1           Stranding         3 wires twisted           Stranding         3 wires twisted           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weight         26.4 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         ±,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         80 ± 5 mm²           Material conductor Vire         32           Diameter of single wires         0,1 mm           Conductor type (wire)         stranded copper wire, bare           Corrupt load capacity min. wir	Type of Certificate	
wire arrangement         brown, black, blue           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weight         26.4 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter plearance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter plearance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter plearance swire insulation         1,25 mm           Outer diameter of single wires         0,1 mm           Conductor crosssection (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           <	Amount stranding	1
No. of bending cycles (C-track) 10 Mio. @ 25 °C Cable weight 26.4 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4.1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3 Outer diameter insulation 1,25 mm  Outer diameter insulation 27 ± 5 Shore D  Ingredient freeness wire insulation Ingredient freeness wire insulation   Packet   Packet   Packet	Stranding	3 wires twisted
Cable weigth         26,4 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Unter diameter insulation         1,25 mm           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor or sessection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m/ 25°C) horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Rectricial resistance line constant wire	wire arrangement	brown, black, blue
Cable weigth         26,4 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Unter diameter insulation         1,25 mm           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor or sessection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m/ 25°C) horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Rectricial resistance line constant wire	No. of bending cycles (C-track)	10 Mio. @ 25 °C
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire) wire         4,5 A           Electrical resistance line constant wire         70 Ω km @ 20 °C           Nominal voitage power AC max.         30	Cable weigth	26,4 g/m
Freedom from ingredients (jacket)  Duter-diameter (jacket)  4,1 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  3  Outer diameter insulation  1,25 mm  Outer diameter insulation  1,25 mm  Outer diameter loterance core insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freeness wire insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  32  Diameter of single wires  0,1 mm  Conductor crosssection (wire)  32  Diameter of single wires  0,1 mm  Conductor vipse (wire)  Stranded copper wire, bare  Conductor type (wire)  Stranded copper wire, bare  Conductor type (wire)  Stranded apacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  79 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power  2,5 kV @ 60 s  Min. operating temperature (static)  Max. operating temperature (static)  Max. operating temperature (static)  Apperating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  100 (sood, application-related testing)  Good, application-related testing  DIN EN 60811-404	Material jacket	PUR
Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wire insulation         1,25 mm           Outer diameter insulation         ± 5 %           Shore bardness wire insulation         ± 5 %           Shore bardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           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         79 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  Nominal voltage power AC max. 300 ∨  Power frequency withstand voltage power (wire - piacket) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) 25 °C  Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Electrical resistance Ecosiance Ecodo, application-related testing   DIN E 06811-404  Oil resistance Good, application-related testing   DIN E 06811-404	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 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 copper wire, bare           Correct load capacity (standard)         10 m @ 25 °C   horizontal           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 win. wire         4,5 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Mc. withstand voltage power (wire - w	Outer-diameter (jacket)	4,1 mm
Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 25 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal 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 79 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -80 °C / 90 °C @ 10000 h Operation Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 79 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Poperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance Ecosoa, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404	Material wire insulation	PP
Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         Power frequency withstand voltage power (wire - wire)       2,5 kV @ 60 s         AC withstand voltage power (wire - wire)       2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       Good, application-related testing         Gasoline resistance	Amount wires	3
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 79 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) Elect 60332-2-2   Lu 1581 § 1990   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing I DIN EN 60811-404	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation  Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire)  32  Diameter of single wires  O,1 mm  Conductor crosssection (wire)  0,25 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDe 298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  79 \( \Omega \text{km} \	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) Diameter of single wires O,1 mm  Conductor crosssection (wire) O,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 2098-4  Current load capacity (standard) Current load capacity min. wire Electrical resistance line constant wire Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) Win. operating temperature (static) AC withstand voltage power (wire - wire) AS V @ 60 s  Min. operating temperature (fixed)  Max. operating temperature (fixed) So °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) Elect 60332-2-2   UL 1581 § 1090   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	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  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   DIN EN 60811-404	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)       0,25 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         Power frequency withstand voltage power (wire - wire)       2,5 kV @ 60 s         AC withstand voltage power (wire - wire)       2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing   DIN EN 60811-404	Amount strands (wire)	32
Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  79 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - yice)  2,5 kV @ 60 s  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Elec 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Good, application-related testing   DIN EN 60811-404	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - jacket) 2,5 kV @ 60 s  AC withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance 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 Good, application-related testing   DIN EN 60811-404	Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Traversing distance (C-track)  10 m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  79 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  AC withstand voltage power (wire - wire)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  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  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  79 Ω/km @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - wire)  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  -40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Electrical resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Good, application-related testing  Good, application-related testing  Good, application-related testing   DIN EN 60811-404	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - gacket) 2,5 kV @ 60 s  AC withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing   DIN EN 60811-404	Traversing distance (C-track)	10 m @ 25 °C   horizontal
Electrical resistance line constant wire 79 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - gacket) 2,5 kV @ 60 s  AC withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance 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 Good, application-related testing   DIN EN 60811-404	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max.  Power frequency withstand voltage power (wire - gacket)  2,5 kV @ 60 s  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Good, application-related testing  Good, application-related testing   DIN EN 60811-404	Current load capacity min. wire	4,5 A
Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Good, application-related testing   DIN EN 60811-404	Electrical resistance line constant wire	79 Ω/km @ 20 °C
(wire - jacket)  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  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  Good, application-related testing   DIN EN 60811-404	Nominal voltage power AC max.	300 V
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  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  Good, application-related testing   DIN EN 60811-404	Power frequency withstand voltage power (wire - jacket)	
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  80 °C / 90 °C @ 10000 h Operation  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  Good, application-related testing   DIN EN 60811-404	AC withstand voltage power (wire - wire)	
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  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  Good, application-related testing   DIN EN 60811-404	Min. operating temperature (static)	
Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  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  Good, application-related testing   DIN EN 60811-404	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
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 Good, application-related testing   DIN EN 60811-404	Operating temperature min. (dynamic)	-25 °C
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404	Operating temperature max. (dynamic)	
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404	Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
Oil resistance Good, application-related testing   DIN EN 60811-404	chemical resistance	Good, application-related testing
	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter	Oil resistance	Good, application-related testing   DIN EN 60811-404
	Bending radius (fixed)	5 x Outer diameter

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-17



Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 180 °/m