

## M12 male 90° / M12 female 90° B-cod. shielded

PUR AWG24+22 shielded vt UL/CSA+drag ch. 0.5m

Male 90° – female 90° M12 – M12, 4-pole B-coded shielded

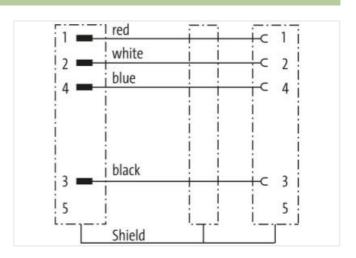
Plastic housings with good resistance against chemicals and oils.

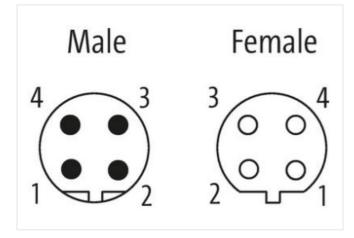
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

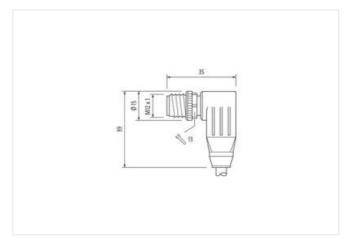
## **Link to Product**

## Illustration



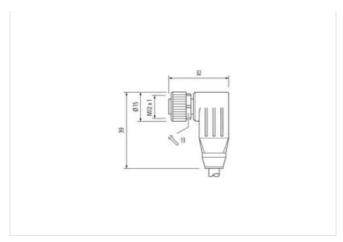








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Product may differ from Image





Cable length	0,5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
No. of poles	4
Width across flats	SW13
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
No. of poles	4
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879285391
Packaging unit	1
Electrical data   Supply	



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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
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Installation   Cable	
	(white, blue), (black, red)
Installation   Cable wire arrangement	(white, blue), (black, red)
Installation   Cable wire arrangement Cable identification	(white, blue), (black, red)
Installation   Cable wire arrangement Cable identification Jacket Color	(white, blue), (black, red) 803 violet
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate	(white, blue), (black, red)  803 violet cURus
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding	(white, blue), (black, red) 803 violet cURus
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2)	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2)	(white, blue), (black, red)  803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type)	(white, blue), (black, red)  803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage)	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil
vire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG
vire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  63,12 g/m  PUR
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  63,12 g/m  PUR  90 ± 5 Shore A
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  63,12 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  63,12 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,9 mm
vire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 6,9 mm ± 5 %
wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	(white, blue), (black, red)  803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  63,12 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free  6,9 mm  ± 5 %  PE
Installation   Cable wire arrangement Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	(white, blue), (black, red) 803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 6,9 mm ± 5 %

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: 2024-06-23



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Shore hardness wire insulation lead-free, CFC-free, halogen-free Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire insulation (Data) PE Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (data) ±53 % Ingredient freeness wire insulation (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical function wire (Data) 20 Copper stranded wire, tinned Electrical fu	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (data) ± 53 % Ingredient freeness wire insulation (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 25 AWG Conductor wire (Data) 25 AWG Corrent load capacity min. Wire (Data) 26 AG AG Current load capacity wires (Data) 45 AG Current load capacity min. Wire (Data) 6 A Electrical function wire (data) Power Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Data Electrical function wire (Data) Power Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Characteristic inclined constant wire Power Characteristic inclined power Power Characteristic Power Character	Shore hardness wire insulation	64 ± 5 Shore D
Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (Data)         Power           Characterisite impedance         120 Ω± 10 % @ 1 MHz	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire coper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 24 AWG Mominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. Wire (Data) 6 A Electrical function wire (Data) Power Data Electrical function wire (Data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical function wire (Data) Power AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity min. Graph wire (Static) 40 ° C Max. operating temperature (Static) 40 ° C Max. operating temperature (Isked) 80 ° C Operating temperature min. (dynamic) 70 ° C Clerating temperature min. (dynamic) 70 ° C Clerating temperature min. (dynamic) 70 ° C Clerating temperature min. (dynamic) Good, application-related testing Gasoline resistance Good, application-related testing	Amount strands (wire)	19
Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount strands wire (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material value of value	Diameter of single wires	24 AWG
Material conductor wire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (data) ± 53 % Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 29 AWG Conductor crosssection wire (Data) 29 AWG Conductor crosssection wire (Data) 29 AWG Conductor wire (Data) 20 AWG Corrent load capacity (standard) 19 Dever Current load capacity (standard) 19 DiN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Electrical function wire (data) Power Characteristic impedance 120 ± 10 %@ 1 MHz Electrical function wire (data) Power Characteristic impedance 120 ± 10 %@ 1 MHz Electrical resistance line constant wire 78 \( \Omega \) Mm Electrical resistance line constant wire 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 ° C Max. operating temperature (static) 70 ° C Operating temperature min. (dynamic) 70 ° C Operating temperature min. (dynamic) 70 ° C Flame resistance Good, application-related testing Gaoline resistance Good, application-related testing	Conductor crosssection (wire)	24 AWG
Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (Data)         copper stranded wire, tinned           Electrical function wire (Data)         copper stranded wire, tinned           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           Current load capacity min. wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Q± ± 10 % @ 1 MHz           Electrical resistance line constant wire         Pa/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)	Drain wire (cross-section)	22 AWG
Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Ingredient freeness wire insulation (Data)         tead-free, CFC-free, halogen-free           Amount strands wire (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (Data)         copper stranded wire, tinned           Electrical function wire (Data)         Power           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s <td>Material conductor wire</td> <td>copper stranded wire, tinned</td>	Material conductor wire	copper stranded wire, tinned
Outer diameter wire insulation (Data) 1,5 mm  Tolerance outer diameter wire insulation (Data) ± 53 % Ingredient freeness wire insulation (Data) tead-free, CFC-free, halogen-free  Amount wires (Data) 2  Amount strands wire (Data) 19  Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Material conductor wire (Data) 29 copper stranded wire, tinned  Electrical function wire (data) Power  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. Wire (Data) 6 A  Electrical function wire (data) Power  Characteristic impedance 120 Ω± 10 % @ 1 MHz  Electrical resistance bine constant wire 78 Ω/km  Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical capacitance 40000 pFkm  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) 70 °C  Flame resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance Good, application-related testing	Electrical function wire	Data
Tolerance outer diameter wire insulation (data) ± 53 % Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free  Amount wires (Data) 2  Amount strands wire (Data) 19  Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Material conductor wire (Data) copper stranded wire, tinned  Electrical function wire (data) Power  Nominal voltage AC max. 300 V  Current load capacity min. wire 4,5 A  Current load capacity min. wire 4,5 A  Current load capacity min. wire Data  Electrical function wire (data) Power  Characteristic impedance 120 Ω± 10 % @ 1 MHz  Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical resistance (static) 40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) 70 °C  Flame resistance Good, application-related testing  Gasoline resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	Material wire insulation (Data)	PE
Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free  Amount wires (Data) 2  Amount strands wire (Data) 19  Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Material conductor wire (Data) 22 AWG  Material conductor wire (Data) 20 AWG  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4.5 A  Electrical function wire (data) Power  Data  Electrical function wire (data) Power  Electrical function wire (data) Power  Characteristic impedance 120 Ω ± 10 % @ 1 MHz  Electrical resistance line constant wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Electric apperature (fixed) 80 °C  Operating temperature (fixed) 80 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance Good, application-related testing  Gasoline resistance Good, application-related testing	Outer diameter wire insulation (Data)	1,5 mm
Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 29 AWG Current load capacity (Standard) 10 DIN VDE 0298-4 Current load capacity (Standard) 10 DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. wire Data Electrical function wire (Data) 6 A Electrical function wire (Data) Power Characteristic impedance 12 0 Q ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Q/km Electrical resistance coating wire (Data) 54 Q/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing	Tolerance outer diameter wire insulation (data)	± 53 %
Amount strands wire (Data)     19       Diameter of single wires (Data)     22 AWG       Conductor crosssection wire (Data)     22 AWG       Material conductor wire (Data)     copper stranded wire, tinned       Electrical function wire (data)     Power       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity min. wire     4,5 A       Current load capacity min. Wire (Data)     6 A       Electrical function wire     Data       Electrical function wire (data)     Power       Characteristic impedance     120 Ω ± 10 % @ 1 MHz       Electrical resistance line constant wire     78 Ω/km       Electrical resistance coating wire (Data)     54 Ω/km       AC withstand voltage (wire - wire)     2 kV @ 60 s       Electrica capacitance     40000 pF/km       AC withstand voltage (wire - shield)     2 kV @ 60 s       Min. operating temperature (fixed)     80 °C       Operating temperature (fixed)     80 °C       Operating temperature min. (dynamic)     -30 °C       Coperating temperature max. (dynamic)     70 °C       Flame resistance     UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090       chemical resistance     Good, application-related testing	Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Diameter of single wires (Data)       22 AWG         Conductor crosssection wire (Data)       22 AWG         Material conductor wire (Data)       copper stranded wire, tinned         Electrical function wire (data)       Power         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related t	Amount wires (Data)	2
Conductor crosssection wire (Data)       22 AWG         Material conductor wire (Data)       copper stranded wire, tinned         Electrical function wire (data)       Power         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         Chemical resistance       Good, application-related testing         Gasoline resistance       Good, applic	Amount strands wire (Data)	19
Conductor crosssection wire (Data)       22 AWG         Material conductor wire (Data)       copper stranded wire, tinned         Electrical function wire (data)       Power         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         Chemical resistance       Good, application-related testing         Gasoline resistance       Good, applic		22 AWG
Electrical function wire (data) Power  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 Ω ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 Ω/km  Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090 chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing		22 AWG
Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing		copper stranded wire, tinned
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing	Electrical function wire (data)	Power
Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing	Nominal voltage AC max.	300 V
Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing	Current load capacity (standard)	to DIN VDE 0298-4
Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing		4,5 A
Electrical function wire (data)       Power         Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega / \text{km}$ Electrical resistance coating wire (Data) $54 \Omega / \text{km}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-40 \degree \text{C}$ Max. operating temperature (fixed) $80 \degree \text{C}$ Operating temperature min. (dynamic) $-30 \degree \text{C}$ Operating temperature max. (dynamic) $70 \degree \text{C}$ Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing	Current load capacity min. Wire (Data)	6 A
Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega \text{/km}$ Electrical resistance coating wire (Data) $54 \Omega \text{/km}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $0 \text{ UL } 1581 \S 1100 \text{ FT2}   \text{ IEC } 60332 - 2 - 2   \text{ UL } 1581 \S 1090 \text{ chemical resistance}$ Good, application-related testing  Gasoline resistance $0 \text{ Good}$ , application-related testing	Electrical function wire	Data
Electrical resistance line constant wire  Flectrical resistance coating wire (Data)  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - shield)  Electric capacitance  Electric capacitance  40000 pF/km  AC withstand voltage (wire - shield)  Electric capacitance  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  4000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  4000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  4000 pF/km  AC withstand voltage (wire - wire)  Electric capacitance  4000 pF/km  AC withstand voltage (wire - wire)  Electri	Electrical function wire (data)	Power
Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - shield)  2 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -30 °C  Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	Electrical resistance line constant wire	78 Ω/km
Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  40 °C  Max. operating temperature (fixed)  B0 °C  Operating temperature min. (dynamic)  -30 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	Electric capacitance	40000 pF/km
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	Max. operating temperature (fixed)	0° 08 °C
Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing	Operating temperature min. (dynamic)	-30 °C
chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
	chemical resistance	Good, application-related testing
Oil resistance DIN EN 60811-404   Good, application-related testing	Gasoline resistance	Good, application-related testing
1 / 11	Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (installation) x Outer diameter	Bending radius (installation)	x Outer diameter
Bending radius (fixed) 6 x Outer diameter	Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic) 10 x Outer diameter	Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track) 1 Mio.	No. of bending cycles (C-track)	1 Mio.
Traversing distance (C-track) 5 m	Traversing distance (C-track)	5 m
Travel speed (C-track) 3 m/s	Travel speed (C-track)	3 m/s
No. of torsion cycles 2 Mio.	No. of torsion cycles	2 Mio.
Torsion stress ± 30 °/m	Torsion stress	± 30 °/m
Torsion speed 35 cycles/min	Torsion speed	35 cycles/min