

## M12 male 0° / M12 female 0° A-cod. shielded

PUR 4x0.5+2x0.25 shielded gn UL/CSA+drag ch. 20m

Cube67
Male straight – female straight
M12 – M12, 6-pole
shielded
A-coded
Hybrid cable

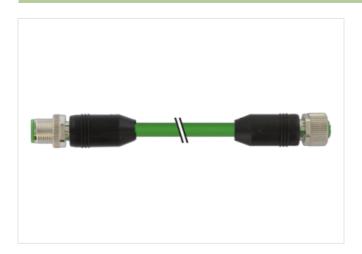
Plastic housings with good resistance against chemicals and oils.

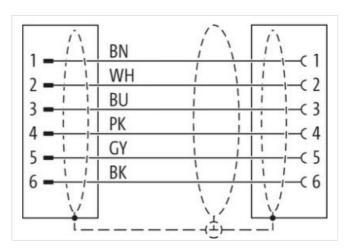
The resistance to aggressive media should be individually tested for your application. Further details on request.

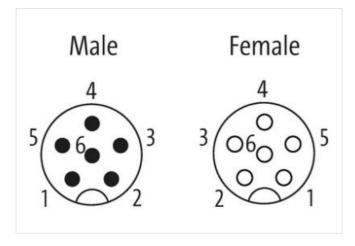
Further cable lengths on request.

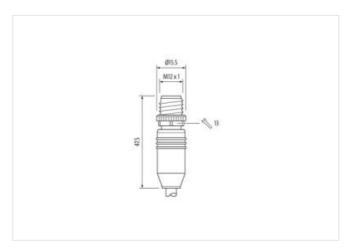
## **Link to Product**

## Illustration

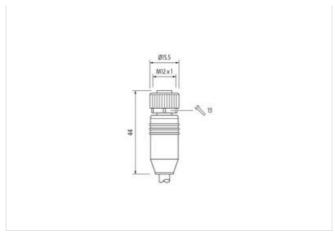












Product may differ from Image





Cable length	20 m	
Side 1		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Coating contact	gold plated	
Family construction form	M12	
Thread	M12 x 1	
Coding	A	
Material contact	Copper alloy	
Material	PUR	
No. of poles	6	
Width across flats	SW13	
Side 2		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Coating contact	gold plated	
Family construction form	M12	
Thread	M12 x 1	
Coding	A	
Material contact	Copper alloy	
Material	PUR	
No. of poles	6	
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	



stay connected

customs tariff number	85444290
GTIN	4048879140256
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 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
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	U,0 KV
Mechanical data   Material data	
	Medical of
Coating locking	Nickeled
Material gasket	FKM
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	C
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
wire arrangement	(gray, pink), blue, white, brown, black
Cable identification	802
Function cable	Hybrid, Signal, Data
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Stranding combination with 3 Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece
Filler	yes
wire arrangement	(gray, pink), blue, white, brown, black
Cable weigth	77 g/m
Material jacket	PUR
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	6,6 mm
Tolerance outer diameter (sheath)	± 5 %



## stay connected

Outer disameter insulation Outer disameter foliarance core insulation I	Material wire insulation	PP
Outer dismeter tolerance core insulation         ± 5 %           Ingredient Treeness were insulation         laad-free, cadmium-free, CFC-free, halogen-free, allicone-free           Amounts strands (virie)         0.4           Diameter of single wikes         0.1 mm           Conductor crosssection (vivie)         0.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1.1 mm           Tolerance outer clameter wire insulation (Data)         1.5 mm           Impedient freeness wire insulation (Data)         2.8           Amount strands wire (Data)         3.2           Diameter of single wires (Data)         3.2           Amount strands wire (Data)         0.5 mm²           Material conductor were (Data)         0.25 mm²           Wire conductor type (Data)         strand class 6           Wire conductor type (Data)         strand class 6           Worrent load capacity (walneamy)         to DIN VEC 6298-4           Current load capacity (walneamy)         to DIN VEC 6298-4           Current load capacity (walneamy)         to DIN VEC 6298-4           Current load capacity (walneamy)         to DIN VEC 6298-4<	Amount wires	4
Ingredient freeness wire insulation Amount strands (wire) 64 Diameter of single wies 0, 1 mm Conductor or crosssection (wire) 0,5 mm² Material conductor wire Conductor by (wire) Stranded copper wire, barre Conductor by (wire) Strand class 6 Material wire insulation (Data) PP Outer diameter wire insulation (Data) 1,1 mm Tolerance outer diameter wire insulation (Data) 1,1 mm Tolerance outer diameter wire insulation (Data) 2,2 mnount wires (Data) 2,2 mnount strands wire (Data) 3,2 mnount strands wire (Data) 3,3 mnount strands wire (Data) 3,4 mnount strands wire (Data) 3,5 mnount strands wire (Data) 3,5 mnount strands wire (Data) 4,5 mnount strands wire (Data) 5,7 mnount strands wire (Data) 5,8 mnount strands wire (Data) 5,9 mnount strands wire (Data) 5,0 mnount strand	Outer diameter insulation	1,4 mm
Annount strands (wire) 64  Diameter of single wires  On thurch of single wires  Conductor or sessection (wire) 0,5 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire) strand class 6  Material wire insulation (Data) PP  Outer diameter wire insulation (Data) 1,1 mm  Tolerance outer clameter wire insulation (Data) 55 %  Impredient freeness wire insulation (Data) 22  Amount strands wire (Data) 32  Amount strands wire (Data) 32  Amount strands wire (Data) 42  Amount strands wire (Data) 52  Amount strands wire (Data) 9,25 mm²  Material conductor wire (Data) 9,25 mm²  Material conduc	Outer diameter tolerance core insulation	±5%
Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Conductor diameter wire insulation (Data)         1,1 mm           Tolerance outer diameter wire insulation (Data)         1.5 %           Impredient freeness wire insulation (Data)         2.2           Amount wires (Cata)         2.2           Amount strands wire (Data)         32           Diameter of single wire south (Sata)         2.2           Amount strands wire (Data)         3.2           Diameter of single wires (Data)         0.25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Stranded copper wire, bare           Multificat conductor wire (Data)         Stranded copper wire, bare           Multificat conductor wire (Data)         Strand datas 6           Nominal voltage AC max         300 V           Current load capacity min. Wire (Data)         3.2 A           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance losing wire (wire)         1.5 kV @ 60 s           Elect	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crossection (wire)         0.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1,1 mm           Tolerance outer diameter wire insulation (Data)         lead free, cadmium free, CFC free, halogen-free, silicone-free           Ingredient freeness wire insulation (Data)         lead free, cadmium free, CFC free, halogen-free, silicone-free           Amount wires (Data)         2           Amount wires (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor rosssection wire (Data)         0.25 mm²           Wire conductor type (Data)         strand class 6           Wire conductor type (Data)         strand class 6           Wominal voltage AC max.         300 V           Current load capacity situation wire         6,3 A           Current load capacity wire, Wire (Data)         3.2 A           Current load capacity wire (Data)         3.2 A           Current load capacity wire (Data)         3.2 A         3.2 A           Current load capacity wire (Data)         3.2 A         4.2 Mm² (20 mm	Amount strands (wire)	64
Material conductor wire   Stranded copper wire, bare	Diameter of single wires	0,1 mm
Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1.1 mm           Tolerance outer diameter wire insulation (Data)         ± 5 %           Ingredient freeness wire insulation (Data)         Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor crosssection wire (Data)         5 mm           Material conductor wire (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Wire conductor type (Data)         5 stranded copper wire, bare           Current load capacity (with wire wire)         6.3 A           Current load capacity (wire wire)         6.3	Conductor crosssection (wire)	0,5 mm <sup>2</sup>
Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1,1 mm           Tolerance outer diameter wire insulation (Data)         ± 5 %           Ingredient freeness wire insulation (Data)         aead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         5 randed copper wire, bare           Wire conductor type (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance line constant wire         39 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         6500 P/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         600 P/km           Powerating temperature (static)	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Data)         1,1 mm           Tolerace outer diameter wire insulation (data)         ± 5 %           Ingredient freeness wire insulation (Data)         ± 5 %           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor crosssection wire (Data)         0.25 mm²           Material conductor vire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6.3 A           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance line constant wire         39 Ωkm @ 20 °C           Electrical resistance coating wire (Data)         79 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           Bodalian resistance         2000 MΩ × km           Min. operating temperature (static)         70 °C           Min. operating temperature (static)         70	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (data)         ± 5 %           Ingredient freeness wire insulation (Data)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor crosssection wire (Data)         Stranded copper wire, barre           Wire conductor type (Data)         stranded capes           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical resistance vire wire         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         3,6 mHz/km           Power frequency withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C	Material wire insulation (Data)	PP
Ingredient freeness wire insulation (Data)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Outer diameter wire insulation (Data)	1,1 mm
Amount wires (Data) 2 Amount strands wire (Data) 32 Diameter of single wires (Data) 0,1 mm Conductor crosssection wire (Data) 0,25 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Wire conductor type (Data) strand class 6 Wire conductor type (Data) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6.3 A Current load capacity min. wire 6.3 A Current load capacity min. wire 6.3 A Current load capacity min. wire (Data) 3,2 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Electrical resistance coating wire (Data) 79 Ω/km @ 20 °C Electrical resistance coating wire (Data) 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1,5 kV @ 60 s Electrical capacity line constant (wire - wire) 63000 pF/km Power frequency withstand voltage (wire - sheld) 1,2 kV @ 60 s AC withstand voltage (wire - sheld) 1,2 kV @ 60 s Solation resistance 2000 MΩ × km Min. operating temperature (static) 50 °C Max. operating temperature (static) 50 °C Max. operating temperature max. (dynamic) 70 °C Operating temperature max. (dynamic) 70 °C Operating temperature min. (dynamic) 5 × Outer diameter Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter	Tolerance outer diameter wire insulation (data)	±5%
Amount strands wire (Data)         32           Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         0,25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance line constant wire         39 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant (wire - wire)         63000 pF/km           Electric inductivity line constant (wire - wire)         30000 pF/km           Electric inductivity line constant voltage (wire - wire)         1,5 kV @ 60 s           Electrical resistance voltage (wire - shield)         1,2 kV @ 60 s           Stoalion resistance         2000 MΩ × km           Min. operating temperature (sitatic)         50 °C           Max. operating temperature (min. dynamic)         30 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090	Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         0,25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant (wire - wire)         63000 pF/km           Electric inductivity line constant (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           Electrical resistand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         50 °C           Max. operating temperature (static)         50 °C           Max. operating temperature (min. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           Chemical resistance         Good, application-relat	Amount wires (Data)	2
Conductor crosssection wire (Data)         0,25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good. application-related testing	Amount strands wire (Data)	32
Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6,3 A           Current load capacity min. wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         63000 pF/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gli resistance         DIN EN 60811-404   Good, applica	Diameter of single wires (Data)	0,1 mm
Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - wire)         1,5 kV @ 60 s           AC withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Garding radius (fixed)         5 × Outer diameter           Bending radius (fixed)         5 × Outer diameter           Bending radiu	Conductor crosssection wire (Data)	0,25 mm <sup>2</sup>
Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire         6.3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ x km           Min. operating temperature (static)         50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter	Material conductor wire (Data)	Stranded copper wire, bare
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6,3 A           Current load capacity min. wire (Data)         3.2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - inscket)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         10 × Outer di	Wire conductor type (Data)	strand class 6
Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         10 × Outer diameter           Bending radius (dynamic)         5 Mio. @ 25 °C	Nominal voltage AC max.	300 V
Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         10 × Outer diameter           Bending radius (dynamic)         5 Mio. @ 25 °C	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 39 Ω/km @ 20 °C  Electrical resistance coating wire (Data) 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 1,5 kV @ 60 s  Electric inductivity line constant 0,65 mH/km  Electrical capacity line constant (wire - wire) 63000 pF/km  Power frequency withstand voltage (wire - insk kV @ 60 s  AC withstand voltage (wire - shield) 1,2 kV @ 60 s  Isolation resistance 2000 MΩ × km  Min. operating temperature (static) -50 °C  Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 10 × Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traver sing distance (C-track) 10 m @ 25 °C  Traver sing distance (C-track) 2 m/s @ 25 °C  Traver sing distance (C-track) 2 m/s @ 25 °C  Traver sing distance (C-track) 2 m/s @ 25 °C  Traver sing distance (C-track) 2 m/s @ 25 °C	Current load capacity min. wire	6,3 A
Electrical resistance coating wire (Data) 79 \( \text{Dr. Wr. M \( \text{@ 20 \circ C} \)}  AC withstand voltage (wire - wire) 1,5 kV \( \text{@ 60 s} \)  Electric inductivity line constant (wire - wire) 63000 pF/km  Power frequency withstand voltage (wire - jacket) 1,5 kV \( \text{@ 60 s} \)  AC withstand voltage (wire - shield) 1,2 kV \( \text{@ 60 s} \)  Isolation resistance 2000 \( \text{M\Circ X} \) km  Min. operating temperature (static) -50 \( \circ C \)  Max. operating temperature (fixed) 90 \( \circ C \)  Operating temperature min. (dynamic) -30 \( \circ C \)  Operating temperature max. (dynamic) 70 \( \circ C \)  Flame resistance   EC 60332-2-2   UL 1581 \( \xi \) 1100 FT2   UL 1581 \( \xi \) 1090  chemical resistance   Good, application-related testing    Oil resistance   DIN EN 60811-404   Good, application-related testing    Bending radius (fixed) 5 \( \times \) Outer diameter    Bending radius (dynamic) 10 \( \times \) Outer diameter    No. of bending cycles (C-track) 5 \( \times \) 00 \( \times \) 25 \( \circ C \)  Traver sing distance (C-track) 2 \( \times \) 27 \( \times \) 28 \( \circ C \)	Current load capacity min. Wire (Data)	3,2 A
AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - jacket)         1,5 kV @ 60 s           AC withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         10 m @ 25 °C           Traversing distance (C-track)         2 m/s @ 25 °C	Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electric inductivity line constant    Some constant   Some co	Electrical resistance coating wire (Data)	79 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)       63000 pF/km         Power frequency withstand voltage (wire - jacket)       1,5 kV @ 60 s         AC withstand voltage (wire - shield)       1,2 kV @ 60 s         Isolation resistance       2000 MΩ × km         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       90 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 Mio. @ 25 °C         Traversing distance (C-track)       10 m @ 25 °C         Travel speed (C-track)       2 m/s @ 25 °C	AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)       1,5 kV @ 60 s         AC withstand voltage (wire - shield)       1,2 kV @ 60 s         Isolation resistance       2000 MΩ × km         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       90 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 Mio. @ 25 °C         Traversing distance (C-track)       10 m @ 25 °C         Travel speed (C-track)       2 m/s @ 25 °C	Electric inductivity line constant	0,65 mH/km
jacket)1,3 kV @ 60 sAC withstand voltage (wire - shield)1,2 kV @ 60 sIsolation resistance2000 MΩ × kmMin. operating temperature (static)-50 °CMax. operating temperature (fixed)90 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °C	Electrical capacity line constant (wire - wire)	63000 pF/km
Isolation resistance 2000 MΩ × km  Min. operating temperature (static) -50 °C  Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Power frequency withstand voltage (wire - jacket)	1,5 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  2 m/s @ 25 °C	AC withstand voltage (wire - shield)	1,2 kV @ 60 s
Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Isolation resistance	2000 MΩ × km
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 2 m/s @ 25 °C	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic)  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  2 m/s @ 25 °C	Max. operating temperature (fixed)	90 °C
Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Operating temperature min. (dynamic)	-30 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C Travel speed (C-track) 2 m/s @ 25 °C	Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 2 m/s @ 25 °C	No. of bending cycles (C-track)	5 Mio. @ 25 °C
	Traversing distance (C-track)	10 m @ 25 °C
Torsion stress ± 180 °/m	Travel speed (C-track)	2 m/s @ 25 °C
	Torsion stress	± 180 °/m