

M23 SERVO CABLE

specification: 6FX8002-5DG01-1DA0

Female straight

M23, 6-pole

shielded

Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake

Mounting bracket

without cable sleeves

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

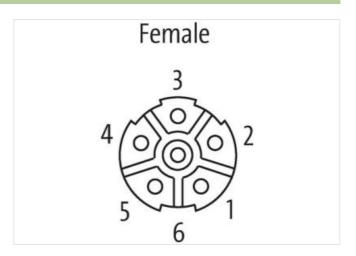
The resistance to aggressive media should be individually tested for your application. Further details on request.

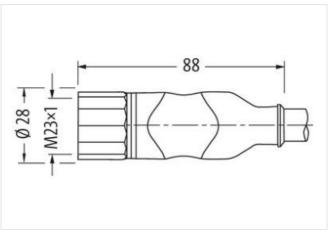
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

Link to Product

Illustration







Product may differ from Image

Cable length	30 m	
Side 1		
Tightening torque	2 Nm	
Family construction form	M23	
Thread	M23 x 1	

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: 2024-04-26



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suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879696487
Packaging unit	1
Electrical data Supply	
Operating voltage AC per power contact max.	600 V
Operating voltage AC per signal contact max.	250 V
Operating voltage DC per power contact max.	600 V
Operating voltage DC per signal contact max.	250 V
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage power contacts	4 kV
Rated surge voltage signal contacts	2 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
Coating locking	nickel plated
Material housing	PUR
Locking material	Brass
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
Installation Cable	
Cable identification	821
Jacket Color	orange
Type of Certificate	cURus
STOOW style jacket	Hybrid, Signal, Power
Amount stranding	1
Stranding	2 wires with Filler twisted
Amount stranding (type 2)	1
	4 wires with Filler around Stranding combination twisted
Stranding (type 2)	•
Stranding (type 2) Cable shielding (type)	copper braid, tinned
Cable shielding (type)	copper braid, tinned 85 %



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Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - conductor) 1000 V Electrical capacity line constant (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical 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		
Cable weight	Filler	yes
Meteral packer Freedom from ingredients (lacket) leas-free, CFC-free, halogen-free, silicone-free Under diameter (packet) 11.3 mm Tolerance outer cliameter (phetath) 2 5 % Amount viros 2 Coulter diameter insulation 2.4 mm Outer diameter insulation 2.4 mm Outer diameter insulation 3.5 % Ingredient freeness wise insulation leas-free, CFC-free, halogen-free, silicone-free Amount strands (we) 3.15 mm Outer diameter of single wires 0.15 mm Outer diameter wire insulation (Power) 17 M Outer diameter wire insulation (Power) 18 Meterial conductor wire Stranded copper wire, have Outer diameter wire insulation (Power) 19 Meterial conductor wire Stranded copper wire, have Outer diameter wire insulation (Power) 19 Meterial conductor wire Outer diameter wire insulation (Power) 19 Meterial conductor wire (Power) 19 Meterial conductor wire insulation (Power) 19 Meterial conductor wire (Power) 19 Meterial conductor wire (Power) 10 Meterial conductor wire (Power) 11 Meterial conductor wire (Power) 12 Meterial conductor wire (Power) 13 Meterial conductor wire (Power) 14 Meterial conductor wire (Power) 15 mm Meterial conductor wire (Power) 16 Meterial resistance (C-track) 16 Dim (Power) 17 Meterial conductor wire (Power) 18 Meterial conductor wire (Power) 19 Meterial conductor wire (Power) 10 Meterial conductor wire (Power) 10 Mete	wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Freedom from ingredients (jacket) tead-free, CPC-free, halogen-free (jacken) 11,3 mm Toferance outer diameter insulation TPM Material wire insulation 2,4 mm Outer diameter insulation 2,5 mm Outer diameter insulation 1,5 mm Outer diameter insulation (prev) 2,4 mm Outer diameter insulation (prev) 2,4 mm Outer diameter wire insulation (prev) 3,5 mm Outer diameter wire insulation (prev) 4,4 mm Outer diameter wire insulation (preve) 4,5 mm Outer diameter (preve) 4,5 mm Outer diameter wire insulation (preve) 4,5 mm Outer diameter (Cable weigth	231 g/m
Delier demoter (packet)	Material jacket	TMPU
Total content of tamoler (shealth) 5 %	Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Material wire insulation TPM Amount wires 2 Outer diameter insulation 2,4 mm Outer diameter insulation 2,4 mm Outer diameter insulation 2,4 mm Diameter of single wires 0,15 mm Diameter of single wires 0,15 mm Outer diameter wire insulation (Power) 1,5 mm Material conductor wires Conductor of single wires 0,15 mm Outer diameter wire insulation (Power) 7 PM Material conductor wire Stranded copper wire, bare Conductor by po (vire) 5 wires 6 wires 6 wires (Power) 7 PM Material conductor wire 1 Stranded copper wire, bare 2 Stranded copper wire, bare 2 Stranded copper wire, bare 2 Stranded copper wire, bare 3 Stranded copper wire, bare 4 Stranded copper wire, bare 5 % Material conductor wire insulation (Power) 8 Stranded copper wire, bare 2 Stranded copper wire, bare 2 Stranded copper wire, bare 3 Stranded copper wire, bare 4 Stranded copper wire, bare 5 Stranded copper wi	Outer-diameter (jacket)	11,3 mm
Amount wires 2 Outer diameter insulation 2.5 mm Under diameter tolerance core insulation 2.5 mm Ingredient feeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 84 Diameter of single wires 0.15 mm Conductor crosssection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) stand class 6 Material wire insulation (Power) TPM Cluer diameter wire insulation (Power) 1.5 mm² Tolerance outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 4.5 mm² Ingredient feeness wire insulation (Power) 4.6 mm² Printing colour wire insulation (Power) 4.4 mm² Amount wire (Power) 4.4 Amount stands wire (Power) 9.4 Diameter of single wires (Power) 1.5 mm² Wire conductor oross section (Power) 1.5 mm² Wire conductor wire (Power) 5.5 mm² Material conductor wire (Power) 5.5 mm² Contracts to yet (Power)	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 2.4 mm Outer diameter folerance core insulation 2.5 % ingredient freeness wire insulation 1 lead free, CFC-free, hatogen-free, silicone-free Amount arrands (wire) 84 Diameter of single wires 0,15 mm Conductor pressection (wire) 1,5 mm² Material conductor wire Shareded copper wire, bare Conductor give wires 1 standation (Power) 1 FPM Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 1 FPM Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 3.5 mm² Pinting colour wire insulation (Power) 4.4 mm Amount wires (Power) 4.4 mm Material conductor wire (Power) 5.5 mm² Material conductor wire (Power) 6.5 mm² Material conductor wire (Power) 6.5 mm² Material conductor wire (Power) 7.5 mm² Material conductor wire (Power) 8.5 mm² Material conductor wire (Power) 9.5 stranded copper wire, bare Connuctor tops were (Power) 1.3 mm² Material conductor wire (Power) 9.5 stranded copper wire, bare Connuctor tops were (Power) 1.3 mm² Material conductor wire (Power) 1.3 mm² Material conductor (Power) 1.	Material wire insulation	TPM
Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation 84 Damater of single wires 0.15 mm Conductor crasssection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) 1PM Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) ±5 % Printing colour wire insulation (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 5 fm @ Uircent (See (Power) 1,5 mm² Wise conductor vire (Power) 5 fm @ 25 **C) Inorzontal Conductor type wire (Power) 5 fm @ 25 **C) Inorzontal Current laad capacity min. wire 12,6 A Electrical resistance (G-track) 50 m @ 25 **C) Inorzontal Current laad capacity (standard) 10 In VPB @ 298-4 Current laad capacity min. wire 12,6 A Electrical resistance or capacity wire - shield) 4 kV @ 300 s Max. r	Amount wires	2
Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, allicone-free Amount strands (wire) 84 Diameter of single wires 0,15 mm Attential conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 4 Amount strands wire (Power) white (isolation black) Amount wires (Power) 64 Diameter of single wires (Power) 84 Diameter of single wires (Power) 0.15 mm Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) 5 mm Material conductor wire (Power) 10 mm Materia	Outer diameter insulation	2,4 mm
Amount frames (wire) 84 Diameter of single wires 0,15 mm Material conductor were Stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Conductor type (wire insulation (Power) TPM Clader diameter wire insulation (Power) 2,4 mm Tolerance under dameter wire insulation (Power) 1 stranded copper wire, bare Printing colour wire insulation (Power) white (isolation black) Amount wires (Power) 4 Amount strands wire (Power) 4 Diameter of single wires (Power) 1,5 mm² Wire conductor cross section (Power) 1,5 mm² Wire conductor wire (Power) stranded copper wire, bare Conductor type wire (Power) stranded copper wire, bare Conductor type wire (Power) stranded copper wire, bare Conductor type wire (Power) stranded copper wire, bare Current load capacity (standard) to DIN VDE (299-4 Current load capacity (standard) to DIN VDE (299-4 Current load capacity (standard) to DIN VDE (299-4 Current load capacity (incombined wire (Power) 13,7 Okm @20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Conductor) Electrical resistance coaling wire (Power) 14 kV @ 300 s Power frequency willistand voltage power (wire - shield) (power) 4 kV @ 300 s Min. operating temperature (static) - 30 °C Operating temperature min. (dynamic) - 30 °C Op	Outer diameter tolerance core insulation	±5%
Diameter of single wires	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded caper wire, bare Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2,4 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient kreeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 4 Wire conductor cross section (Power) 1,5 mm² Wire conductor typs wire (Power) Stranded copper wire, bare Conductor typs wire (Power) Stranded copper wire, bare Conductor typs wire (Power) Stranded copper wire, bare Conductor typs wire (Power) strand class 6 Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Electrical resistance (line constant wire 13,7 Ω/km @ 20 °C Max. rated voltage power (wire vire) 4 kW @ 300 s	Amount strands (wire)	84
Material conductor wire Stranded copper wire, bare Conductor type (vire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2,4 mm Tolerance outer diameter wire insulation (Power) ±5 %. Ingredient freeness wire insulation (Power) ±5 %. Printing colour wire insulation (Power) white (solation black) Amount wires (Power) 4 Amount strands wire (Power) 84 Diameter of single wires (Power) 1,5 mm² Wire conductor cross section (Power) 1,5 mm² Material conductor wire (Power) 5tranded copper wire, bare Conductor type wire (Power) 5tranded copper wire, bare Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (intandard) to DIN VDE 0298 4 Current load capacity (intandard) to DIN VDE 0298 4 Electrical resistance coating wire (Power) 13,7 D/km @ 20 °C Max. rated voltage power (conductor - roground) 600 V Max. rated voltage power (wire - shield) 16000 V Electrical capacity line constant (wire - shield) 4 kV @ 300 s	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) dead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (solation black) Amount strands wire (Power) 4 Amount strands wire (Power) 34 Diameter of single wires (Power) 0.15 mm Wire conductor view (Power) 5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 6 Traversing distance (C-track) 50 m@ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Electrical resistance line constant wire (Power) 13,7 0/km @ 20 °C Max. rated voltage power (conductor - ground) 400 V Max. rated voltage power (conductor - ground) 400 V Conductor) 4 kV @ 300 s AC withstand voltage power (wire - shield) (power) 4 kV @ 300 s	Conductor crosssection (wire)	1,5 mm ²
Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) 4 Amount wires (Power) 4 Amount strands wire (Power) 0.15 mm Unameter of single wires (Power) 0.15 mm Wire conductor vire (Power) 5 mm² Material conductor wire (Power) 5 mm² Material conductor vire (Power) 5 tranded copper wire, bare Conductor type wire (Power) 5 tranded copper wire, bare Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) 10 IN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance cating wire (Power) 13,7 Q/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (wire - shield) 4 kV @ 300 s Febertical capacity line constant (wire - shield) 4 kV @ 300 s <td>Material conductor wire</td> <td>Stranded copper wire, bare</td>	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 4 Amount strands wire (Power) 84 Diameter of single wires (Power) 0.15 mm Wire conductor orses section (Power) 1.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance coating wire (Power) 13,7 0/km @ 20 °C Max. rated vollage power (conductor - ground) 600 V Max. rated vollage power (conductor - ground) 600 V Power frequency withstand vollage power (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Max. operating	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free	Material wire insulation (Power)	TPM
Ingradient freness wire insulation (Power) 15 % 15 % 16 %	Outer diameter wire insulation (Power)	2,4 mm
Printing colour wire insulation (Power) white (isolation black) Amount wires (Power) 4 Amount strands wire (Power) 84 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 1,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) stranded copper wire, bare Conductor type wire (Power) strand class 6 Traversing distance (C-track) 50 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 (imn. wire 12,6 A Electrical resistance line constant wire 13,7 0/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (wire - shield) 4 kW @ 300 s Electrical capacity line constant (wire - shield) 4 kW @ 300 s AC withstand voltage power (wire - shield) 4 kW @ 300 s AC withstand voltage power (wire - wire) 4 kW @ 300 s Min. operating temperature (static) 30 °C		±5 %
Amount wires (Power) 4 Amount strands wire (Power) 84 Diameter of single wires (Power) 0,15 mm Wire conductor wire (Power) 1.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) stranded capse Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 1000 V Max. rated voltage power (wire - shield) 160000 pF/km Lectrical capacity line constant (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) 30 °C Max. operating temperature (static) 30 °C Max. operating temperature max. (dynamic) 30 °C <t< td=""><td>Ingredient freeness wire insulation (Power)</td><td>lead-free, CFC-free, halogen-free, silicone-free</td></t<>	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Amount strands wire (Power) 84 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 1,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Electrical resistance line constant wire 12,6 A Electrical resistance coating wire (Power) 13,7 Q/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Q/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Acc withstand voltage power (conductor - shield) 160000 pF/km (power) 4kV @ 300 s Power frequency withstand voltage power (wire - shield) 4kV @ 300 s Power frequency withstand voltage power (wire - wire) 4kV @ 300 s Acc withstand voltage power (wire - wire) 4kV @ 300 s Min. operating temperature (static) 30 °C Max. operating temperature (static) 80 °C Operating temperature max. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gaodine resistance Good, application-related testing Oil resistance DIN ENGERT (Standard Conductor Leader Conductor) 1000 Ending reductor (C-track) 10 M En	Printing colour wire insulation (Power)	white (isolation black)
Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 1,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min, wire 12.6 A Electrical resistance line constant wire 13,7 0/km @ 20 °C Electrical resistance coating wire (Power) 13,7 0/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - conductor) 1000 V Electrical capacity line constant (wire - shield) 60000 pF/km (power) 4 kV @ 300 s Power frequency withstand voltage power (wire - shield) 4 kV @ 300 s Ac withstand voltage power (wire wire) 4 kV @ 300 s Max. operating temperature (fixed) 80 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 30 °C Plame resistance Good, application-related testing Good, application-related testing Good, application-relat	Amount wires (Power)	4
Wire conductor cross section (Power) 1,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AG withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Operating temperature (static) -30 °C Max. operating temperature (static) 80 °C Flame resistance U 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resis	Amount strands wire (Power)	84
Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12.6 A Electrical resistance line constant wire 13.7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13.7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 160000 pF/km AC withstand voltage power (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) -30 °C Plane resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resi	Diameter of single wires (Power)	0,15 mm
Conductor type wire (Power) strand class 6 Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (static) -30 °C Operating temperature (mix. (dynamic) 30 °C Operating temperature (mix. (dynamic) 30 °C 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 Oil re	Wire conductor cross section (Power)	1,5 mm ²
Traversing distance (C-track) 50 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 700 V Electrical capacity line constant (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (fixed) 80 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) -30 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 4 x Outer diameter Bending radius (fixed) 4 x Outer diameter Bending radius (fixed) 7,5 x Outer diameter	Material conductor wire (Power)	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - ground) 600 V Electrical capacity line constant (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Eending radius (fixed) 7,5 x Outer diameter	Conductor type wire (Power)	strand class 6
Current load capacity min. wire 12.6 A Electrical resistance line constant wire 13,7 \(\textit{ Dikm @ 20 °C} \) Electrical resistance coating wire (Power) 13,7 \(\textit{ Dikm @ 20 °C} \) Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - 1000 V Electrical capacity line constant (wire - shield) (power) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C 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 No. of bending cycles (C-track) 10 Min. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Traversing distance (C-track)	50 m @ 25 °C horizontal
Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - 1000 V Electrical capacity line constant (wire - shield) (power) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - shield) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 30 °C Operating temperature max. (dynamic) 80 °C 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 No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance coating wire (Power) 13,7 Q/km @20 °C Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - conductor) 1000 V Electrical capacity line constant (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Current load capacity min. wire	12,6 A
Max. rated voltage power (conductor - ground) 600 V Max. rated voltage power (conductor - conductor) 1000 V Electrical capacity line constant (wire - shield) 160000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °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 Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Max. rated voltage power (conductor - conductor) 1000 V Electrical capacity line constant (wire - shield) 160000 pF/km (power) 160000	Electrical resistance coating wire (Power)	13,7 Ω/km @20 °C
Electrical capacity line constant (wire - shield) 160000 pF/km (power) AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - wire) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Max. rated voltage power (conductor - ground)	600 V
AC withstand voltage power (wire - shield) 4 kV @ 300 s Power frequency withstand voltage power (wire - jacket) 4 kV @ 300 s AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter		1000 V
Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) 4 kV @ 300 s Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) BO °C Chamical resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	1 , ()	160000 pF/km
(wire - jacket) AC withstand voltage power (wire - wire) Ak V @ 300 s Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic)	AC withstand voltage power (wire - shield)	4 kV @ 300 s
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 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 Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	1 , 0 1	4 kV @ 300 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) 80 °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 Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	AC withstand voltage power (wire - wire)	4 kV @ 300 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic) 80 °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 Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	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 No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Operating temperature max. (dynamic)	00 °C
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	chemical resistance	Good, application-related testing
No. of bending cycles (C-track) 10 Mio. @ 25 °C Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter	Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (dynamic) 7,5 x Outer diameter	No. of bending cycles (C-track)	10 Mio. @ 25 °C
	Bending radius (fixed)	4 x Outer diameter
Torsion stress ± 30 °/m	Bending radius (dynamic)	7,5 x Outer diameter
	Torsion stress	± 30 °/m