

M23 SERVO CABLE

Specification: 6FX8002-5DS16-1BF0

Female straight - pre-wired terminals

M23, 6-pole

shielded

Power connector SIEMENS

Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake without cable sleeves

Further cable lengths on request.

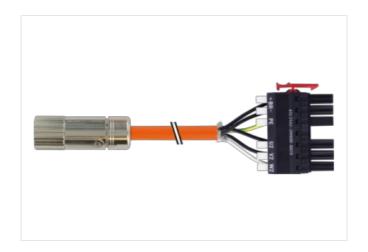
Plastic housings with good resistance against chemicals and oils.

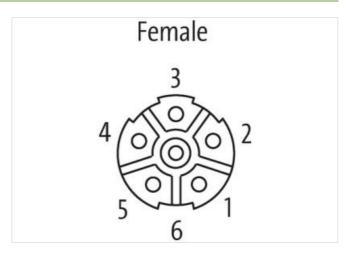
The resistance to aggressive media should be individually tested for your application. Further details on request.

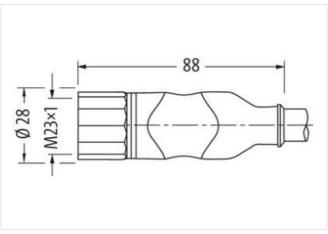
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

Link to Product

Illustration







Product may differ from Image

Cable length	15 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: 2024-05-18



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suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
Side 2	
Family construction form	M23
suitable for corrugated tube (internal Ø)	23 mm
Commercial data	
	07070040
ECLASS-6.0	27279218 27279218
ECLASS-6.1 ECLASS-7.0	27279218
ECLASS-7.0 ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-9.0 ECLASS-10.1	27060327
ECLASS-11.1	27060311
ECLASS-11.1 ECLASS-12.0	27060327
ETIM-5.0	EC000830
customs tariff number	85444290
GTIN	4048879711296
Packaging unit	1
	·
Electrical data Supply	
Operating voltage AC per power contact max.	
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)	T
Mechanical data Material data	
Coating locking	nickel plated
Material gasket	FKM
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
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	
·	833
Cable identification	833 Hybrid Signal Power
·	833 Hybrid, Signal, Power orange

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Amount strainting 1 2 wires with Filter twisted Amount strainting (type 2) 1 Copies instanting (type 2) 4 wires with Filter twisted Cable shadding (type 2) 6 wires with Filter around Stranding combination twisted Cable shadding (type) 0 copper bad, tinned Banding Fibre fape, Filterop, Foil Filter yes wire arrangement back, white, clinick WLS/DL-, block ULT-CL-, block VL2, green-yellow) Cable swight 311,3 gm Meterial gozeet ThPU Freedom from ingradients (gabdid) 18 mm Cuter-damenter (gabdid) 1.5 fw Material wire installation 17 PM Amount wires 2 Cuter damenter installation 17 PM Cuter damenter installation 2.4 mm Cuter damenter installation (wire) 18 mm Pointmeter of single wires 2.0 mm Cuter damenter installation (fiver) 18 mm Material wire installation (fiver) 18 mm Material conductor wire 5 % Material conductor wire installation (fiver) 1.5 mm C		
Amount standing (type 2) 4 wires with Filler around Stranding combination twisted Cable shielding (type) opport with Linned Cable shielding (coverage) 85 % Part shielding (type) opport with Linned Banding Fiber type, Fleece, Foll Filler yee wile a rangement black, white, (black WLS/DL, black ULI/CL+, black VL2, green-yellow) Cable weight 311,3 pin Malerial packed TMPU Floeding from from imgredients (sheelt) 13 mm Coler dameter (sheelth) 2 5 % Malerial wire insulation 17 PM Amount wires 2 Cuber dameter (sheelth) 2 5 % Marked aware insulation 2 FM Ingredient frequency wire insulation 2 FM Voord strander brinance once insulation 4 FM Ingredient frequency wire insulation 4 FM Under dameter insulation 4 FM Under dameter insulation (Prover) 1,5 mm² United strands (wire) 1,5 mm² Marked and vire insulation (Prover) 1,5 mm² Onductor type of vire (Prover)	Amount stranding	1
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Cabbe shietding (coverage) copper braid, linned Bard an elidding (ptyps) 65 % Pair shielding (ptyps) copper braid, finned Banding Fiber tape, Reace, Foil Filter yes wire arrangement black, white, Black Wit.3.DL-, black U.I.1.CL-, black V.I.2, green-yellow) Cabbe weight 311.5 g/m Material jucket TMPU Freedom from ingredients (jacket) 13 mm Outer-diameter (jacket) 15 % Material viris invalidio TPM Amount wires 2 Outer diameter invalidion 2.4 mm Cluer diameter professes wire insulation 2.5 % Impedient renewes wire insulation 2.5 fm Dameter of single wires 0.15 mm Conductor cossescition (vivi) 84 Dameter of single wires 0.15 mm Conductor vivie wire wire insulation (Power) 15 mm² Conductor type (vivie) strand closes 6 Material vivie insulation (Power) 15 mm² Outer diameter vivie insulation (Power) 14 mm² Outer diameter vivie insulation (Power)	Amount stranding (type 2)	1
Cable is shelding (cyverage) 85 % Pair shelding (type) opper braid, timed Banding Fiber tape, Florce, Foll Filler yss Wear arrangement black, white, (black WL3,ObL*, black UL1,CL1*, black VL2, green-yellow) Cable weight 311,3 g/m Material jacket TMPU Freedom from ingredients (jacket) 13 mm Todelance outer diameter (sheath) 4.5 % Material wire insulation 1PM Amount wires 2 Outer diameter insulation 2.4 mm Outer diameter since insulation 18 % Ingredient freeness wire insulation 18 de fexe. CFC-free, halogen-free, allicone-free Amount strands (wire) 84 Dameter of single wires 0,15 mm Conductor or passes wire insulation (Power) 1,5 mm² Material wire insulation (Power) 1,5 mm² Material wire insulation (Power) 17 mm² Material wire insulation (Power) 145 % Ingredient freeness wire insulation (Power) 140 Dameter of single wires (Power) 45 % Ingredient	Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Pair shielding (type) copper braid, finned Banding Fibr tape, Feace, Foil Filter yes wis a rangement black, white, (black WL3DL*, black UL1;C/L*, black VL2, green-yellow) Material jailushed TMU Freedom from ingredients (sickod) load free, CFC-free, halogen-free, silicone-free Outer diameter (paket) 13 mm Tolerance outer diameter (sheath) ± 5 % Material view insulation TPM Annount strands (view) 2 Outer diameter insulation 2,4 mm Annount strands (view) 84 Diameter of single wires 1,5 mm² Ornubuct or yee (view) 84 Diameter of single wires 1,5 mm² Material view insulation (Power) 1,5 mm² Material view insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 16 mm Outer diameter wire insulation (Power) 16 mm Other common seed wire insulation (Power) 10 mm Other common seed of single wires (Power) 14 mm	Cable shielding (type)	copper braid, tinned
Bandling	Cable shielding (coverage)	85 %
Filter yes wire arrangement black, white, (olack WIL3/DIL-, black VIL1, green-yellow) Cabbie weight 311.3 g/m Material jackset TMPU Freedom from ingredients (jacket) lead-free, CFC-free, habgen-free, silicone-free Outer-diameter (jacket) 13 mm Tolerance outer diameter (health) 2 5 % Material wire insulation TPM Amount wires 2 Outer diameter insulation 2,4 mm Culter diameter tolerance core insulation 2 5 % Under diameter tolerance core insulation 3 5 % Ingredient freeness wire insulation 3 5 % Diameter of single wires 0 .1.5 mm Conductor crosssection (wire) 1,5 mm Conductor type (wire) 84 Diameter of single wires 0 .1.5 mm Conductor type (wire) 84 Diameter of single wires 0 .1.5 mm Conductor type (wire) 85 mm Conductor type (wire) 87 mm Conductor wire insulation (Power) 140 Diameter of simple wire insulation (Power) 2.5 mm Tolerance outer diameter wire insulation (Power) 4.6 mm Diameter of simple wire insulation (Power) 4.6 mm Diameter of simple wire (Power) 4.6 mm Diameter of simple wires (Power) 4.6 mm Diameter of simple wires (Power) 140 Diameter of simple wires (Power) 15 mm Wire conductor vire (Power) 140 Diameter of simple wires (Power) 15 mm Wire conductor vire (Power) 15 mm Wire conductor vire (Power) 15 mm Wire conductor vire (Power) 15 mm Diameter of simple wires (Power) 15 mm Diameter of	Pair shielding (type)	copper braid, tinned
wire arrangement black, white, (black WIL3/DiL, black UL1/CiL+, black VIL2, green-yellow) Cable weight 311.3 g/m Material jacket 1TMPU Freedom from ingredients (gacket) lead-free, CFC-free, halogen-free, allicone-free Outer diameter (sckealt) 13 mm Tolerance outer diameter (schealth) ± 5 % Material wire insulation 7PM Amount wires 2 2 Outer diameter insulation 2 4 mm Outer diameter insulation 2 4 mm Outer diameter foreance core insulation 1 pm (schealth) 1 pm (sch	Banding	Fiber tape, Fleece, Foil
Cable weight 911.3 g/m Material jacket TMPU Freedom from ingredients (jacket) 1 3 mm Outer-diameter (jacket) 1 3 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPM Amount wires 2 Outer diameter insulation 2.4 mm Outer diameter berance core insulation ± 5 % Mancinal wire insulation (wire) 8.4 mm Diameter of single wires 0.15 mm Conductor recessation (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) 1.5 mm² Material view insulation (Power) 1.5 mm² Outer diameter wire insulation (Power) 1.5 mm² Outer diameter wire insulation (Power) 1.5 mm² Printing colour wire insulation (Power) 1.5 m² Ingredient freeness wire insulation (Power) 4.0 mm Diamater of single wires (Power)	Filler	yes
Material Jacket	wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Feedom from ingredients (jacket) lead free, CFC-free, halogen-free silicone-free	Cable weigth	311,3 g/m
Outer-diameter (jacket) 13 mm Tolerance outer diameter (eheath) ± 5 % Material wire insulation TPM Amount wires 2 Outer diameter insulation ± 5 % Outer diameter tolerance core insulation ± 5 % Ingredient feeness wire insulation lead-free, CFC-free, halogen-free, allicone-free Amount strands (wire) 84 Conductor grassection (wire) 1,5 mm² Conductor pressection (wire) \$ stranded copper wire, bare Conductor prey (wire) stranded copper wire, bare Conductor prey (wire) \$ stranded copper wire, bare Conductor prey (wire) \$ strand class 6 Material wire insulation (Power) TPM Conductor prey (wire) \$ 1 mm Tolerance outer diameter wire insulation (Power) \$ 1 mm Tolerance outer diameter wire insulation (Power) white (solation black) Printing colour wire insulation (Power) white (solation black) Amount wires (Power) 140 Diameter of single wires (Power) 2.5 mm² Material conductor wire (Power) 5 stranded copper wire, bare	Material jacket	TMPU
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Material wire insulation TPM	Outer-diameter (jacket)	13 mm
Amount wires 2 Outer diameter insulation 2,4 mm Outer diameter tolerance core insulation lead-free, CFC-free, halogen-free, sillicone-free Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, sillicone-free Amount strands (wire) 84 Dameter of Ising wires 0,15 mm Conductor crosseaction (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) stranded cosper wire, bare Material vire insulation (Power) TPM Tolerance outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) 46 free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) wite (solation black) Amount wires (Power) 44 Amount wires (Power) 140 Wire conductor vire (Power) 2,5 mm² Maximado wire (Power) 5 tranded copper wire, bare Outer diameter wire (Power) 5 tranded copper wire, bare Conductor type wire (Power) 5 tranded copper wire, bare	Tolerance outer diameter (sheath)	±5%
Outer diameter lolerance core insulation 2,4 mm Outer diameter tolerance core insulation 2.5 % Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Cuter diameter wire insulation (Power) 3.1 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) blead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) 44 Amount strands wire (Power) 140 Dameter of single wires (Power) 140 Diameter of single wires (Power) 2,5 mm² Miterial conductor wire (Power) 5 tranded copper wire, bare Conductor type wire (Power) 5 tranded copper wire, bare Conductor type wire (Power) 5 tranded copper wire, bare Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity (standard) 10 DIN VDE 0298-4 <	Material wire insulation	TPM
Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crossection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3.1 mm Tolerance outer diameter wire insulation (Power) 4.5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) wite (solation black) Amount strands wire (Power) 4 Amount strands wire (Power) 0.15 mm Wire conductor cross section (Power) 2.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded capacity (see (Power) Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V	Amount wires	2
Ingredient freeness wire insulation lead-free, CFC-free, halogen-free, silicone-free	Outer diameter insulation	2,4 mm
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) strand class 6 Material wire insulation (Power) TPM Cuter diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) ½ % Ingredient freeness wire insulation (Power) white (isolation black) Printing colour wire insulation (Power) white (isolation black) Amount wires (Power) 4 Amount strands wire (Power) 1,10 Unameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) Stranded copper wire, bare Max. rated voltage (conductor - conductor) Stranded copper wire, bare Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity min. wire 12,6 A Current load capacity min. wire (Power) 18,2 A Electrical resistance [ine constant wire	Outer diameter tolerance core insulation	±5%
Diameter of single wires 0,15 mm Conductor grossection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) bed-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) 44 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 5,5 mm² Material conductor vipe wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Current load capacity (islandard) to DIN VDE 0298-4 Current load capacity (islandard) to DIN VDE 0298-4 Current load capacity min. wire (Power) 18,2 A Electrical resistance coating wire (Power) 4 kV @ 300 s <td< td=""><td>Ingredient freeness wire insulation</td><td>lead-free, CFC-free, halogen-free, silicone-free</td></td<>	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 1,5 mm²	Amount strands (wire)	84
Material conductor wire Stranded copper wire, bare	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colorur wire insulation (Power) 4 Amount wires (Power) 4 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor vire (Power) 2,5 mm² Material conductor vire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 100 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 ° C Electrical capacity min. wire (Power) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s <t< td=""><td>Conductor crosssection (wire)</td><td>1,5 mm²</td></t<>	Conductor crosssection (wire)	1,5 mm ²
Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3.1 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) white (solation black) Amount strands wire (Power) 4 Amount strands wire (Power) 0.15 mm Wire conductor cross section (Power) 2.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 6 Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical capacity line constant (wire - wire) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Power) 3,1 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) white (isolation black) Amount strands wire (Power) 4 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current carrying capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance coating wire (Power) 8 Ω/km @20 °C Electrical resistance coating wire (Power) 8 N/km @20 °C Electrical capacity line constant (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ x km Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (Power)	Material wire insulation (Power)	TPM
(Power) ±5 % 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) 140 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current carrying capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance loacy (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF	Outer diameter wire insulation (Power)	3,1 mm
Printing colour wire insulation (Power) white (isolation black) Amount wires (Power) 4 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Maximaterial conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 100000 pF/km		±5 %
Amount wires (Power) Amount strands wire (Power) Diameter of single wires (Power) Wire conductor cross section (Power) Stranded copper wire, bare Conductor type wire (Power) Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Max. rated voltage (conductor - conductor) Max. rated voltage (conductor - ground) Current load capacity (standard) Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) Belectrical resistance coating wire (Power) AC withstand voltage (wire - wire) AC withstand voltage (wire - shield) Electrical capacity line constant (wire - shield) Electrical capacity line constant (wire - shield) AC withstand voltage (wire - shield) Electrical capacity line constant (wire - wire) Electrical capacity line constant (wire - wire)	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - alacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ x km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - wire) 200000 pF/km	Printing colour wire insulation (Power)	white (isolation black)
Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Amount wires (Power)	4
Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current carrying capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Amount strands wire (Power)	140
Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12.6 A Current carrying capacity min. wire (Power) 18.2 A Electrical resistance line constant wire 13.7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ x km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Diameter of single wires (Power)	0,15 mm
Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Wire conductor cross section (Power)	2,5 mm ²
Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Material conductor wire (Power)	Stranded copper wire, bare
Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Conductor type wire (Power)	strand class 6
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Max. rated voltage (conductor - conductor)	1000 V
Current load capacity min. wire 12,6 A Current carrying capacity min. wire (Power) 18,2 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) (power) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Max. rated voltage (conductor - ground)	600 V
Current carrying capacity min. wire (Power) Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - shield) 200000 pF/km 120000 pF/km	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Current load capacity min. wire	12,6 A
Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - shield) 200000 pF/km	Current carrying capacity min. wire (Power)	18,2 A
AC withstand voltage (wire - wire) 4 kV @ 300 s Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) (power) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire) 90000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Electrical resistance coating wire (Power)	8 Ω/km @20 °C
Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) (power) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	AC withstand voltage (wire - wire)	4 kV @ 300 s
Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) (power) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Electrical capacity line constant (wire - wire)	90000 pF/km
jacket) AC withstand voltage (wire - shield) Isolation resistance 2500 MΩ × km Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) 120000 pF/km	Electrical capacity line constant (wire - shield)	160000 pF/km
Isolation resistance $2500 \text{ M}\Omega \times \text{km}$ Electrical capacity line constant (wire - shield) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km		4 kV @ 300 s
Electrical capacity line constant (wire - shield) (power) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	AC withstand voltage (wire - shield)	4 kV @ 300 s
(power) 200000 pF/km Electrical capacity line constant (wire - wire) 120000 pF/km	Isolation resistance	2500 MΩ × km
12UUUU DE/KM		200000 pF/km
		120000 pF/km



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 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (fixed)	4 x Outer diameter
Bending radius (dynamic)	7,5 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	50 m @ 25 °C horizontal
Travel speed (C-track)	5 m/s @ 25 °C
Torsion stress	± 30 °/m