

## **M23 SERVO CABLE**

Specification: 6FX5002-5DS06-1AD0

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.

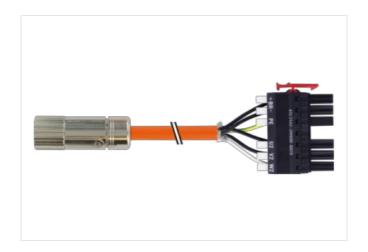
Plastic housings with good resistance against chemicals and oils.

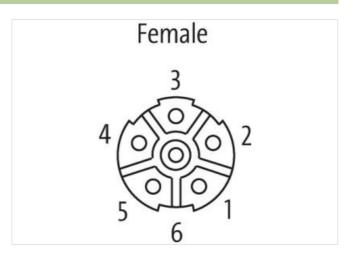
The resistance to aggressive media should be individually tested for your application. Further details on request.

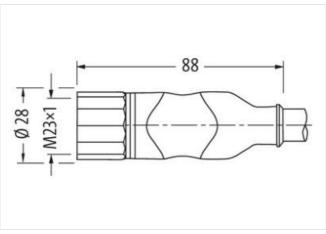
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

## **Link to Product**

## Illustration







Product may differ from Image

Cable length	3 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: 2024-05-19



suitable for corrugated tube (internal  $\emptyset$ ) 16 mm SW27 Width across flats Side 2 Family construction form M23 suitable for corrugated tube (internal Ø) 23 mm 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 EC000830 customs tariff number 85444290 GTIN 4048879684996 Packaging unit 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 250 V Operating voltage DC per signal contact max. Device protection | Electrical Degree of protection (EN IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 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 gasket FKM Material housing PUR Locking material Brass Mechanical data | Mounting data inserted, screwed, Shaking protection Mounting method Environmental characteristics | Climatic -25 °C Operating temperature min. 85 °C Operating temperature max. 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces.

black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)

The information in this Product-PDF has been compiled with the utmost care.

Installation | Cable

wire arrangement

Cable identification

Function cable

Jacket Color

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

861

orange

Hybrid, Signal, Power



Amount atrainating   1	Type of Certificate	cURus
Amount stranding (type 2)   1	Amount stranding	1
Stranding (type 2) copper braid, timed  Cable shielding (type) copper braid, timed  Sale shielding (type) copper braid, timed  Sale shielding (type) copper braid, timed  Sanding Filter yes  Filter yes  Wes were arrangement block, white, (black WLS/DL-, black ULLT/CL-, black VL2, green-yellow)  Cable weight 203.5 g/m  Material jacket PVC  Freedom from lingradients (glacket) lead-free, CPC-free, silicone-free  Cate-climater (glacket) 10,4 mm  Toterance outer diameter (sheath) 15%  Material view insulation  TPM  Amount wires  2  Cuter-diameter insulation 2,4 mm  Cuter diameter insulation 2,4 mm  Cuter diameter insulation 10,25 mm  Conductor crosses were insulation 10,25 mm  Material conductor wire  Conductor or save wire insulation 10,5 mm²  Material conductor wire  Conductor or save wire insulation 10,5 mm²  Material conductor wire  Conductor or save wire insulation 10,5 mm²  Material conductor wire  Conductor or save wire insulation (Power) 1,5 mm²  Material conductor wire (Power) 1,5 mm²	Stranding	2 wires with Filler twisted
Cable shielding (type) copper braid, tinned  Cable shielding (type) copper braid, tinned  Banding Fiber tape, Fileces, Foil  Filter ys  wire arrangment black, white, (black WL3/DLL, black VL2, green yellow)  Cable weigh 20.5, 5 g/m  Material packet PVC Freedom from ingrodients (glacket) 10.4 mm  Toter ance outer diameter (glacket) 10.5 mm  Toter ance outer diameter (glacket) 10.5 mm  Toter diameter (glacket) 10.5 mm  Ingredient feeness wire insulation 10.5 mm  Ingredient feeness wire insulation (grower) 10.5 mm  Conductor crosssection (givin) 15.5 mm  Material conductor wire (grower) 15.5 mm  Conductor type (wire) 15.5 mm  Conductor type (wire) 15.5 mm  Conductor type (wire) 15.5 mm  Conductor or proving insulation (Power) 15.5 mm  Ingredient feeness wire insulation (Power) 15.5 mm  Conductor type (wire) 15.5 mm  Conductor wire insulation (Power) 15.5 mm  Conductor type (wire) 15.5 mm	Amount stranding (type 2)	1
Cable shelding (coverage) 85 % Pair shelding (type) coper braid, tinned Banding Fleet tape, Fleece, Fell Filler yes wite arrangement black, white, (black WIL3/DL-, black UIL1/DL-, black VIL2, green-yellow) Cable weight 20.5 g/m Material picket PVC Freedom from ingrudients (jacket) lead free, CFC free, silicone free Outer-diameter (jacket) 10,4 mm Calerance (acter diameter (sheath) ± 5 % Material were resultation 7 PM Amount writes 2 Cuter diameter insulation 2,4 mm Outer diameter insulation 2,4 mm Outer diameter insulation 1 ± 5 % Ingredient freeness were insulation 1 to 5 % Ingredient freeness were insulation 1 to 5 % Conductor byte wites Conductor were Shand class 5 Outer diameter view insulation (Power) Shand class 5 Outer diameter view insulation (Power) 4 Amount writes (Power) 4 Amount freeness wire insulation (Power) 4 Amount freeness wire insulation (Power) White (solation black) Amount writes (Power) 4 Amount strands (wire) 30 Dameter of single wires (Power) 4 Amount strands (wire (Power) 5) Dameter of single wires (Power) 1.5 mm² Material conductor wire (Power) 4 Amount strands (wire (Power) 5) Dameter of single wires (Power) 1.5 mm² Material conductor wire (Power) 1.5 mm² Mater	Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Pair shielding (type) copper braid, finned Banding Fiber tape, Fleece, Foil Filter yes wire arrangement black, white, (black Wit.3D/L-, black U.I.1,C/L+, black VII.2, green-yellow) Material jacket PVC Freedom from ingredients (jacket) 10,4 mm Material packet PVC Amount wires 2 Outer diameter (jacket) 10,4 mm Tolerance outer diameter (jacket) 10,4 mm Material wire neutation TPM Amount wires 2 Outer diameter insulation 2.4 mm Under diameter insulation 2.4 mm Under diameter orderance ozer insulation 2.5 % Ingredient treeness wire insulation 2.5 % Dameter of single wires 0.25 mm Conductor prosessection (wire) 1,5 mm² Material order insulation (Power) 2.4 mm Under diameter insulation (Power) 2.4 mm Under diameter order insulation (Power) 2.4 mm Under diameter order insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 30 Dameter of single wires 0.25 mm Conductor type (wire) Shranded copper wire, barre Tolerance outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 30 Dameter of single wires (Power) 3.0 Dameter of single wires (Power) 5.5 mm Material conductor wire (Power) 6.00 V Max. rated voltage (conductor - conductor) 6.00 V Max. rated voltage (wire	Cable shielding (type)	copper braid, tinned
Fiber tape, Fleece, Foil	Cable shielding (coverage)	85 %
wire arrangement black, white, (black WIL-3DIL-, black UIL.1CA+, black VIL2, green-yellow)  Zabio weight 20,5, g/m  Material jacked PVC  Freedon from ingredients (jacket) 10.4 mm  Tolerance outer clameter (sheath) ± 5 %  Material substantiation 17PM  Amount wires 2  Zouter diameter insulation 2,4 mm  Outer diameter insulation 2,4 mm  Outer diameter insulation 3 ± 5 %  Ingredient freeness wire insulation 4 ± 5 %  Material conductor system (single wires 2)  Diameter of single wires 0,25 mm  Conductor crosssection (wire) 1,5 mm²  Conductor crosssection (wire) 1,5 mm²  Conductor type (wire) 2,4 mm  Tolerance outer diameter wire insulation (Power) 4,4 mm  Tolerance outer diameter wire insulation (Power) 4,5 mm²  Millerance outer diameter wire insulation (Power) 4,4 mm  Tolerance outer diameter wire insulation (Power) 4,4 mm  Tolerance outer diameter wire insulation (Power) 4,5 mm²  Millerance outer diameter wire insulation (Power) 4,5 mm²  Millerance outer diameter wire insulation (Power) 4,5 mm²  Millerance outer diameter wire insulation (Power) 5,5 mm²  Millerance outer diameter wire insulation (Power) 4,5 mm²  Millerance outer diameter wire insulation (Power) 5,5 mm²  Millerance outer diameter wire insulation (Power) 6,5 mm²  Millerance outer diameter wire insulation (Power) 1,5 mm²  Millerance outer diameter wire insulation (Power) 1	Pair shielding (type)	copper braid, tinned
wire arrangement         black, white, (black Wit.3/Dit, black Uit.1/C/L+, black Vit.2, green-yellow)           Cablo weight         203.5 g/m           Material jacket         PVC           Freedom from ingredients (jacket)         lead-free, CFC-free, silicone-free           Outer-diameter (jacket)         1.6 f/m           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         TPM           Amount wires         2           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         2.4 mm           Amount sirands (wire)         30           Bameter of single wires         0.25 mm           Conductor ressection (wire)         1.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor representative insulation (Power)         2.4 mm           Tolerance outer diameter wire insulation (Power)         2.4 mm           Tolerance outer diameter wire insulation (Power)         4.5 %           Amount strands wire insulation (Power)         4.6 mile (Section black)           Amount strands wire (Power)         0.5 mm           Wire conductor roses section (Power)         1.5 mm²           Max. rated valtage (conductor - conductor)         1.5 mm²	Banding	Fiber tape, Fleece, Foil
Cable weight	Filler	yes
Material jacket   PVC   lead-free, CPC-free, silicone-free	wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Freedom from ingredients (jacket)   lead-free, CFC-free, silicone-free	Cable weigth	203,5 g/m
Outer-diameter (jacket)         10.4 mm           Tolerance outer cliameter (sheath)         ± 5 %           Amount wires         2           Outer diameter insulation         2.4 mm           Outer diameter insulation         lead-free, CFC-free, silicone-free           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free           Amount strands (wire)         30           Diameter of single wires         0.25 mm           Conductor crosssection (wire)         1,5 mm²           Amount strands (wire)         30           Diameter of single wires         0.25 mm           Conductor type (wire)         Stranded copper wire, bare           Conductor type (wire)         Stranded copper wire, bare           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         15 %           Ingredient freeness wire insulation (Power)         15 %           Ingredient freeness wire insulation (Power)         44           Amount strands wire (Power)         4           March strands wire (Power)         30           Diameter of single wires (Power)         1,5 mm²           Material conductor vire (Power)         Stranded copper wire, bare           Max. rated voltage (conductor - conductor)	Material jacket	PVC
Tolerance outer diameter (sheath)	Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Material wire insulation TPM Amount wires 2 Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0,25 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Conductor type (wire) Stranded copper wire, bare Conductor type (wire) \$5 %  Ingredient freeness wire insulation (Power) white (isolation black)  Amount wires (Power) 4  Amount strands wire (Power) 4  Amount strands wire (Power) 0,25 mm  Wire conductor cross section (Power) 1,5 mm²  Material conductor wire (Power) Strand class 5  Max. rated voltage (conductor - conductor)  Electrical resistance coating wire (Power)  1,5 A A  Current load capacity min. wire  1,6 A  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) to DI	Outer-diameter (jacket)	10,4 mm
Amount wires 2 Outer diameter insulation 2,4 mm  Corduct diameter triesulation 2.5 % Ingredient freeness wire insulation 1,5 mm  Amount strands (wire) 30 Diameter of single wires 0,25 mm  Conductor crossection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare  Conductor type (wire) Stranded sopper wire, bare  Conductor type (wire) Stranded sopper wire, bare  Conductor wire insulation (Power) 2,4 mm  Tolerance outer diameter wire insulation (Power) 4 Amount wire insulation (Power) 4 Amount wires (Power) 30 Diameter of single wires (Power) 4 Amount strands wire (Power) 30 Diameter of single wires (Power) 4 Amount strands wire (Power) 1,5 mm²  Wire conductor rors section (Power) 0,25 mm  Wire conductor type wire (Power) 1,5 mm²  Water ald voltage (conductor - ground) 60 V Current load capacity (standard) 10 DIN VDE 0293-4  Electrical resistance line constant (wire - wire) 12,6 A  Electrical capacity line constant (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 250000 pF/km  Electrical capacity line constant (wire - wire) 250000 pF/km  Electrical capacity line constant (wire - shield) 150000 pF/km  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 150000 pF/km  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         2,4 mm           Outer diameter folerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free           Amount strands (wire)         30           Diameter of single wires         0,25 mm           Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         white (isolation black)           Amount wires (Power)         4           Amount wires (Power)         0,25 mm           Wire conductor cross section (Power)         1,5 mm²           Wire conductor vires section (Power)         1,5 mm²           Max. rated voltage (conductor - conductor)         1000 V           Conductor type wire (Power)         5 stranded copper wire, bare           Current load capacity (standard)         to DIN VDE 0298.4           Current load capacity (standard)         to DIN VDE 0298.4           Current carrying capacity min. wire (Power)         12,6 A           Electrical resistance line constant wire 13,7 O/km @ 20	Material wire insulation	TPM
Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free           Amount strands (wire)         30           Diameter of single wires         0,25 mm           Conductor vosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         bead-free, CFC-free, silicone-free           Printing colour wire insulation (Power)         4           Amount strands wire (Power)         30           Diameter of single wires (Power)         0,25 mm           Mire conductor cross section (Power)         1,5 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         Stranded copper wire, bare           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)         13,7 D/m @ 20 °C           Elec	Amount wires	2
Ingradient freeness wire insulation   lead-free, CFC-free, silicone-free	Outer diameter insulation	2,4 mm
Amount strands (wire) 30 Diameter of single wires 0.25 mm Conductor vive Stranded copper wire, bare Conductor type (wire) Strand class 5 Outer diameter wire insulation (Power) 2,4 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) each-free, CFC-free, silicone-free Printing colour wire insulation (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 30 Diameter of single wires (Power) 0,25 mm Wire conductor cross section (Power) Strand class 5  Material conductor wire (Power) 1,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5  Current toad capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current carrying capacity min. wire 12,6 A Electrical resistance ine constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Electrical capacity line constant (wire - wire) 100000 pF/km Electrical capacity ine constant (wire - wire) 100000 pF/km Electrical capacity line constant (wire - shield) 2kV @ 60 s Electrical capacity line constant (wire - shield) 2kV @ 60 s Electrical capacity line constant (wire - shield) 2kV @ 60 s Electrical capacity line constant (wire - shield) (power)	Outer diameter tolerance core insulation	±5%
Diameter of single wires 0.25 mm  Conductor vire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Outer diameter wire insulation (Power) 2,4 mm  Tolerance outer diameter wire insulation (Power) lead-free, CFC-free, silicone-free  Ingredient freeness wire insulation (Power) white (isolation black)  Amount wires (Power) 4  Amount wires (Power) 30  Diameter of single wires (Power) 0,25 mm  Wire conductor vire (Power) 1,5 mm²  Material conductor wire (Power) Stranded copper wire, bare  Conductor type wire (Power) Stranded copper wire, bare  Conductor wire (Power) Stranded conductor of the Stranded Copper wire, bare  Conduct	Ingredient freeness wire insulation	lead-free, CFC-free, silicone-free
Conductor crosssection (wire)       1,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         Outer diameter wire insulation (Power)       2,4 mm         Tolerance outer diameter wire insulation (Power)       ±5 %         Ingredient freeness wire insulation (Power)       lead-free, CFC-free, silicone-free         Printing colour wire insulation (Power)       white (isolation black)         Amount strands wire (Power)       4         Amount strands wire (Power)       30         Diameter of single wires (Power)       1,5 mm²         Material conductor wire (Power)       5tranded copper wire, bare         Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       Strand class 5         Max. rated voltage (conductor - conductor)       600 V         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         Current carrying capacity min. wire (Power)       13,7 Ω/km @ 20 °C         Electrical resistance line constant wire       13,7 Ω/km @ 20 °C         Electrical capacity line constant (wire - shield)       2 kV @ 60 s         Electrical capacity line con	Amount strands (wire)	30
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           Outer diameter wire insulation (Power)         ±5 %           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         lead-free, CFC-free, silicone-free           Printing colour wire insulation (Power)         4           Amount wires (Power)         30           Diameter of single wires (Power)         0,25 mm           Wire conductor wire (Power)         1.5 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         Strand class 5           Max. rated vollage (conductor - conductor)         1000 V           Max. rated vollage (conductor round)         600 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12.6 A           Current load resistance line constant wire         13.7 Ω/km @20 °C           Electrical resistance coating wire (Power)         13.7 Ω/km @20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - wire)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km           Electri	Diameter of single wires	0,25 mm
Conductor type (wire)     Strand class 5       Outer diameter wire insulation (Power)     2,4 mm       Tolerance outer diameter wire insulation (Power)     ±5 %       Ingredient freeness wire insulation (Power)     lead-free, CFC-free, silicone-free       Printing colour wire insulation (Power)     white (isolation black)       Amount wires (Power)     4       Amount strands wire (Power)     30       Diameter of single wires (Power)     0,25 mm       Wire conductor cross section (Power)     1,5 mm²       Material conductor wire (Power)     Stranded copper wire, bare       Conductor type wire (Power)     Strand class 5       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       Electrical resistance line constant wire     13,7 Ω/km @ 20 °C       Electrical resistance line constant wire     13,7 Ω/km @ 20 °C       Electrical capacity line constant (wire - wire)     2 kV @ 60 s       Electrical capacity line constant (wire - shield)     160000 pF/km       Power frequency withstand voltage (wire - shield)     2 kV @ 60 s       Isolation resistance     5000 MΩ × km       Electrical capacity line constant (wire - shield)     2 kV @ 60 s       Isolation resistanc	Conductor crosssection (wire)	1,5 mm <sup>2</sup>
Outer diameter wire insulation (Power)     2,4 mm       Tolerance outer diameter wire insulation (Power)     ±5 %       Ingredient freeness wire insulation (Power)     lead-free, CFC-free, silicone-free       Printing colour wire insulation (Power)     white (isolation black)       Amount strands wire (Power)     4       Amount strands wire (Power)     30       Diameter of single wires (Power)     0,25 mm       Wire conductor vires (Power)     Stranded copper wire, bare       Material conductor wire (Power)     Stranded copper wire, bare       Conductor type wire (Power)     Strand class 5       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     12,6 A       Electrical resistance line constant wire     13,7 Okm @ 20 °C       Electrical capacity line constant (wire - wire)     2 kV @ 60 s       Electrical capacity line constant (wire - shield)     2 kV @ 60 s       Isolation resistance     5000 MΩ × km       Electrical capacity line constant (wire - shield)     2 kV @ 60 s       Isolation resistance     5000 MΩ × km       Electrical capacity line constant (wire - shield)     2 kV @ 60 s       Isolation resistance     5000 MΩ × km       Electrical capacity line constant (wire - s	Material conductor wire	Stranded copper wire, bare
Tolerance outer diameter wire insulation (Power) Ingredient freeness wire insulation (Power) Ingredient freeness wire insulation (Power) Ingredient freeness wire insulation (Power)  Amount wires (Power) Amount strands wire (Power) Amount strands wire (Power) Joseph Material conductor cross section (Power) Vire conductor cross section (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5  Max. rated voltage (conductor - ground) Max. rated voltage (conductor - ground) Current load capacity (standard) Tolerand Capacity (standard) Tolerand Capacity min. wire  12,6 A Current carrying capacity min. wire (Power) Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - shield) Isolono pF/km Electrical capacity line constant (wire - shield)	Conductor type (wire)	Strand class 5
Ingredient freeness wire insulation (Power)   Ingredient freeness wire insulation (Power)   Ingredient freeness wire insulation (Power)   White (isolation black)	Outer diameter wire insulation (Power)	2,4 mm
Printing colour wire insulation (Power)       white (isolation black)         Amount wires (Power)       4         Amount strands wire (Power)       30         Diameter of single wires (Power)       0,25 mm         Wire conductor cross section (Power)       1,5 mm²         Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       Strand class 5         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)       12,6 A         Electrical resistance inc constant wire       13,7 Q/km @ 20 °C         Electrical resistance coating wire (Power)       13,7 Q/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield) (wire - shield) (power)       250000 pF/km		±5 %
Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  Vire conductor cross section (Power)  Material conductor wire (Power)  Stranded copper wire, bare  Conductor type wire (Power)  Stranded class 5  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  13,7 \( \Omega \text{ Mr} \text{ @ 20 °C} \)  Electrical resistance line constant wire  13,7 \( \Omega \text{ Mr} \text{ @ 60 s} \)  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - shield)  AC withstand voltage (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, silicone-free
Amount strands wire (Power)       30         Diameter of single wires (Power)       0,25 mm         Wire conductor cross section (Power)       1,5 mm²         Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       Strand class 5         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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         Isolation resistance       5000 MΩ x km         Electrical capacity line constant (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ x km         Electrical capacity line constant (wire - wire)       150000 pF/km	Printing colour wire insulation (Power)	white (isolation black)
Diameter of single wires (Power)       0,25 mm         Wire conductor cross section (Power)       1,5 mm²         Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       Strand class 5         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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - shield)       250000 pF/km	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 5         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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - wire)       150000 pF/km	Amount strands wire (Power)	30
Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       Strand class 5         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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ x km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - wire)       250000 pF/km          Electrical capacity line constant (wire - wire)       250000 pF/km	Diameter of single wires (Power)	0,25 mm
Conductor type wire (Power)       Strand class 5         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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - shield)       250000 pF/km	Wire conductor cross section (Power)	1,5 mm <sup>2</sup>
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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       2 kV @ 60 s         RAC withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield) (power)       250000 pF/km         Electrical capacity line constant (wire - wire)       150000 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)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - wire)       150000 pF/km	Conductor type wire (Power)	Strand class 5
Current load capacity (standard)  Current load capacity min. wire  12,6 A  Current carrying capacity min. wire (Power)  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  AC withstand voltage (wire - wire)  2 kV @ 60 s  Electrical capacity line constant (wire - wire)  100000 pF/km  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  2 kV @ 60 s  Electrical capacity line constant (wire - shield)  2 kV @ 60 s  Electrical capacity line constant (wire - shield)  2 kV @ 60 s  Electrical capacity line constant (wire - shield)  2 kV @ 60 s  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - wire)  150000 pF/km  Electrical capacity line constant (wire - wire)	Max. rated voltage (conductor - conductor)	1000 V
Current load capacity min. wire 12,6 A  Current carrying capacity min. wire (Power) 12,6 A  Electrical resistance line constant wire 13,7 $\Omega$ /km @ 20 °C  Electrical resistance coating wire (Power) 13,7 $\Omega$ /km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire - wire) 100000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  Isolation resistance 5000 M $\Omega$ × km  Electrical capacity line constant (wire - shield) 250000 pF/km  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Isolation resistance 5000 M $\Omega$ × km  Electrical capacity line constant (wire - shield) 250000 pF/km	Max. rated voltage (conductor - ground)	600 V
Current carrying capacity min. wire (Power)       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         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical capacity line constant (wire - wire)       100000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       5000 MΩ × km         Electrical capacity line constant (wire - shield) (power)       250000 pF/km         Electrical capacity line constant (wire - wire)       150000 pF/km	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire  Electrical resistance coating wire (Power)  AC withstand voltage (wire - wire)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - wire)  150000 pF/km	Current load capacity min. wire	12,6 A
Electrical resistance coating wire (Power)  AC withstand voltage (wire - wire)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - wire)  150000 pF/km	Current carrying capacity min. wire (Power)	12,6 A
AC withstand voltage (wire - wire)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - wire)  150000 pF/km	Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire) 100000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Isolation resistance 5000 MΩ × km  Electrical capacity line constant (wire - shield) 250000 pF/km  Electrical capacity line constant (wire - wire) 150000 pF/km	Electrical resistance coating wire (Power)	13,7 Ω/km @20 °C
Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage (wire - 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Isolation resistance 5000 MΩ × km  Electrical capacity line constant (wire - shield) (power) 250000 pF/km  Electrical capacity line constant (wire - wire) 150000 pF/km	AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Isolation resistance  Electrical capacity line constant (wire - shield) (power)  2 kV @ 60 s  5000 MΩ × km  250000 pF/km	Electrical capacity line constant (wire - wire)	100000 pF/km
jacket)  AC withstand voltage (wire - shield) 2 kV @ 60 s  Isolation resistance 5000 MΩ × km  Electrical capacity line constant (wire - shield) (power) 250000 pF/km  Electrical capacity line constant (wire - wire) 150000 pF/km		160000 pF/km
Isolation resistance $5000 \text{ M}\Omega \times \text{km}$ Electrical capacity line constant (wire - shield) (power) $250000 \text{ pF/km}$ Electrical capacity line constant (wire - wire) $150000 \text{ pF/km}$		2 kV @ 60 s
Electrical capacity line constant (wire - shield) (power) 250000 pF/km  Electrical capacity line constant (wire - wire) 150000 pF/km	AC withstand voltage (wire - shield)	2 kV @ 60 s
(power)  Electrical capacity line constant (wire - wire)  150000 pF/km		5000 MΩ × km
15UUUU DE/KM		250000 pF/km
		150000 pF/km



AC withstand voltage power (wire - shield)	4 kV @ 60 s
Power frequency withstand voltage power (wire - jacket)	4 kV @ 60 s
AC withstand voltage power (wire - wire)	4 kV @ 60 s
Min. operating temperature (static)	-25 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	60 °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	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	18 x Outer diameter
No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	0,5 m/s @ 25 °C
Torsion stress	± 30 °/m