

## **M23 SERVO CABLE**

Specification: 6FX5002-5DS06-1AH5

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.

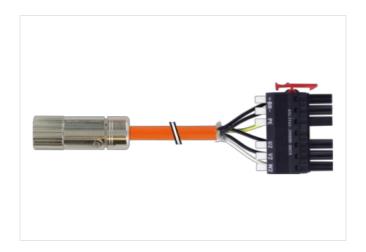
Plastic housings with good resistance against chemicals and oils.

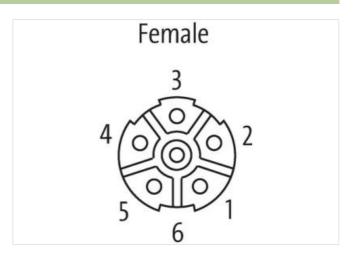
The resistance to aggressive media should be individually tested for your application. Further details on request.

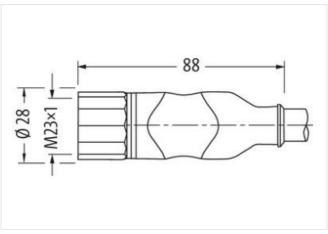
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

## **Link to Product**

## Illustration







Product may differ from Image

Cable length	7,5 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 Ø)	16 mm
Width across flats	SW27
Side 2	
	Non
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	4048879788182
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)	1
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	inserted, sofewed, channy protection
Operating temperature min.	-25 °C
Operating temperature min.  Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
· · · · ·	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Cable identification	861
Function cable	Hybrid, Signal, Power
Jacket Color	orange

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stay connected

Stranding (type 2) 4 wires with Filter around Stranding combination twisted Cabbe shielding (sovenage) 65 % Pair shielding (sovenage) 85 % Pair shielding (		
Stranding   2 wires with Filler twisted	Type of Certificate	cURus
Amount standarding (type 2) Sizandaring (type 2) Sizandaring (type 2) Sizandaring (type) Cabbe shindring (coverage) 85 % Sizandaring (type) Sizand	Amount stranding	1
Stranding (type 2)	Stranding	2 wires with Filler twisted
Cable shielding (type)  Par shielding (type)  Banding  Fiber tape, Floods, Fol  Banding  Fiber tape, Floods, Fol  Steller  yes  wire arrangement  black, white, (black WL3/DL*, black UL1/CL*, black VL2, green-yellow)  Cable weight  Amount streen (speaker)  PVC  Freedom from ingredients (spket)  Couler diameter (spleath)  Tolerance outer diameter (sheath)  Tolerance outer diameter outer (sheath)  Tolerance outer diameter outer (sheath)  Tolerande (s	Amount stranding (type 2)	1
Cable shelding (cycerage) 65 % Pair shielding (tyce) copper braid, tinned Sandring Filter yes Sinder yes were arrangement black, white, (blank WL3/DL-, black UL-L/CL-, black VL2, green-yellow) Cable weight 293.5 pm Matural pizebt PC Freedom from ingredients (jacket) 10.4 mm Tolerance outer damater (packet) 1.5 % Matural vire insulation 17 PM Amount wires Quiter diameter insulation 2.4 mm Quiter diameter insulation 2.5 % Quiter diameter insulation 2.5 % Matural vire insulation 2.5 % Matural vire insulation 2.5 % Matural vire insulation 2.5 % Dutter diameter insulation 2.5 % Amount wires 2.5 % Dutter diameter insulation 2.5 % Dutter diameter insulation 3.5 % Dutter diameter insulation 3.5 % Dutter diameter insulation 4.5 % Dutter diameter insulation 4.5 % Dutter diameter insulation 5.5 % Dutter diameter insulation 6.7 % Dutter diameter vire insulation 6.7 % Power insulation 6.7 % Printing colour wire insulation 6.7 % Diameter of angle wires 6.7 % Dutter diameter vire insulation 6.7 % Printing colour wire insulation 6.7 % Printing colour wire insulation 6.7 % Dutter diameter vire insulati	Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Pair shielding (type)  Gooper braid, tinned  Fiber upps. Fleece, Feli Fiber  yes  wire arrangement  black, white, (black WIL3/DL-, black UL1/CL+, black VIL2, green-yellow)  Cable weigh  Austerial jackat  PVC  Freedom from ingredients (jacker)  Colled-dismeter (jacker)  Tolerance outer dismeter (seker)  Tolerance outer dismeter insulation  FPM  Annount writes  2  Touter dismeter insulation  2,4 mm  Tolerance outer dismeter wite insulation  1,5 mm²  Tolerance outer dismeter wite insulation  1,5 mm²  Tolerance outer dismeter wite insulation  Conductor pressection (vire)  Strand class 5  Counter dismeter of single wires  Conductor type (wire)  Conductor type (wire)  Tolerance outer dismeter wite insulation (Power)  Tolerance outer dismeter wite insulation (Power)  Tolerance outer dismeter wite insulation (Power)  Finding colour wire insulation (Power)  Finding colour wire insulation (Power)  Finding colour wire insulation (Power)  Were conductor cross section (Power)  Were conductor cross section (Power)  Max. rated voltage (conductor - conductor)  Electrical resistance wire (Power)  Strand class 5  Courtent load capacity kinn wire (Power)  Strand class 5  Max. rated voltage (conductor - conductor)  1,5 mm²  Max. rated voltage (wire - wire)  Strand class 5  Colled	Cable shielding (type)	copper braid, tinned
Earding	Cable shielding (coverage)	85 %
Filler yes wire arrangement black, white, (black Wit.3/Dit., black Uit.1/Cit.+, black Vit.2, green-yellow) Cable weight 200,5 g/m   Material packet PVC   Freedom from ingredients (jacket)	Pair shielding (type)	copper braid, tinned
wire arrangement         black, white, (black WL3/DL-, black UL1, C/L-, black VL2, green-yellow)           Gable weight         203.5 g/m           Freadom from ingradients (gacket)         lead-free, CFC-free, silicone-free           Outer-diameter (jacket)         10.4 mm           Tolerance outer diameter (shealt)         2.5 %           Malariar wire insulation         FPM           Amount wires         2.           Outer diameter insulation         1.5 %           Impedient freeness wire insulation         1.6 %           Outer diameter (siver)         3.0           Diameter of single wires         2.2           Outer diameter (siver)         3.0           Diameter of single wires         0.25 mm           Conductor or sesection (wire)         1.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor by Every (wire)         Stranded copper wire, bare           Outer diameter wire insulation (Power)         2.4 mm           Tolerance outer diameter wire insulation (Power)         4.5 %           Ingredient freeness wire insulation (Power)         4.5 %           Ingredient freeness wire insulation (Power)         4.5 %           Ingredient freeness wire insulation (Power)         4.5 %           Tolerance outer diameter wire	Banding	Fiber tape, Fleece, Foil
Cable weight         203.5 g/m           Material jacket         PVC           Freedom from ingredients (jacket)         lead-free, CFC-free, silicone-free           Outer-diameter (jacket)         10.4 mm           Material wire insulation         TPM           Amount wires         2           Outer diameter insulation         2,4 mm           Outer diameter insulation         2,4 mm           Outer diameter insulation         1,5 mm²           Amount stards (vire)         30           Diameter of single wires         0,25 mm           Conductor crosssection (vive)         1,5 mm²           Material conductor wire         Strand class 5           Couler diameter vive insulation (Power)         2,4 mm           Conductor type (wire)         Strand class 5           Couter diameter vive insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         4           Printing obour wire insulation (Power)         4           Manuel strands wire (Power)         30           Diameter of single wires (Power)         4           Material conductor wire (Power)         5 mm²           Mitter out of single wires (Power)	Filler	yes
Material jacket   PVC   lead-free, CFC-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 (jackett)         10,4 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free           Amount strands (wire)         30           Diameter of siling wires         0.25 mm           Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor by evire)         Stranded copper wire, bare           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         4,5 %           (Power)         1,5 mm²           Ingredient freeness wire insulation (Power)         4,4 mm           Ingredient freeness wire insulation (Power)         4,5 %           Ingredient freeness wire insulation (Power)         4,5 %           Ingredient freeness wire insulation (Power)         4,6 mm²           Unigredient freeness wire insulation (Power)         4,6 mm²           Ingredient freeness wire insulation         (Power)           Ingredient freeness wire insulation         (Power)           Ingredient freeness w	Material jacket	PVC
Tolerance outre diameter (sheath) ± 5 %  Material wire insulation TPM  Amount wires 2  Outer diameter insulation 2,4 mm  Outer diameter insulation ± 5 %  Ingredient freeness wire insulation 1 lead-free, CFC-free, silicone-free  Amount strands (wire) 30  Diameter of single wires 0,25 mm  Conductor prossection (wire) 1,5 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) 2,4 mm  Tolerance outer diameter wire insulation (Power) 2,4 mm  Tolerance outer diameter wire insulation (Power) 2,4 mm  Tolerance outer diameter wire insulation (Power) 4  Amount strands wire (Power) 4  Amount strands wire (Power) 30  Diameter of single wires 0,25 mm  Tolerance outer diameter wire insulation (Power) white (isolation black)  Amount wires (Power) 4  Amount strands wire (Power) 30  Diameter of single wires (Power) 4  Amount strands wire (Power) 5  Wire conductor vipes (Power) 5  Wire conductor conductor onductor (Power) 5  Max. rated voltage (conductor - ground) 600 V  Current load capacity (standard) 1000 V  Max. rated voltage (conductor - ground) 600 V  Current load capacity (standard) 1,3 mm 20 °C  Electrical capacity (standard) 1,3 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,3 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20000 pF/km  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine constant (wire - wire) 1,5 nm 20 °C  Electrical capacity ine	Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Material wire insulation         TPM           Amount wires         2           Outer diameter tolerance core insulation         2.4 mm           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         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         2,4 mm           Ingredient freeness wire insulation (Power)         4,4 mm           Ingredient freeness wire insulation (Power)         wite (solation black)           Amount wires (Power)         4           Amount strands wire (Power)         30           Diameter of single wires (Power)         0,25 mm           Wire conductor vire (Power)         1,5 mm²           Max. rated voltage (wire (Power)         Stranded copper wire, bare           Ourset load capacity (standard)         to DIN VDE 0298-4 <t< td=""><td>Outer-diameter (jacket)</td><td>10,4 mm</td></t<>	Outer-diameter (jacket)	10,4 mm
Amount wires 2 Outer diameter insulation 2,4 mm Outer diameter tolerance core insulation 1,5 % Ingredient freeness wire insulation 1,5 mm² Diameter of single wires 0,25 mm Outlour diameter wire insulation 1,5 mm² Material conductor wire 5 stranded copper wire, bare Conductor tronsessection (wire) 1,5 mm² Material conductor wire 5 stranded copper wire, bare Conductor type (wire) 2,4 mm Tolerance outer diameter wire insulation (Power) 2,4 mm Tolerance outer diameter wire insulation (Power) 4 Amount wire insulation (Power) 4 Amount wires (Power) 4 Amount wires (Power) 30 Diameter of single wires (Power) 30 Diameter of single wires (Power) 4 Amount wires (Power) 4 Amount wires (Power) 5 stranded copper wire, bare Conductor type wire (Power) 1,5 mm² Material conductor wire insulation (Power) 2,5 mm Wire conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 6 stranded copper wire, bare Conductor type wire (Power) 7 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor type wire (Power) 8 stranded copper wire, bare Conductor wire (Power) 8 stranded copper wire, bare Conductor wire (Power) 9 stranded copper wire, bare Conductor wire (Power) 8 stranded copper wire, bare Conductor wire (Power) 9 stranded copper wire, bare Conductor wire (Power) 8 stranded copper wire, bare Conductor wire (Power) 9 stranded conductor 9 stranded conduc	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         2,4 mm           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         Stranded copper wire, bare           Conductor type (wire)         \$1 mm           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 (solation black)           Amount wires (Power)         4           Amount strands wire (Power)         30           Diameter of single wires (Power)         0,25 mm           Mitter outcord cross section (Power)         1,5 mm²           Material conductor vire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         Strand class 5           Max. rated voltage (conductor - conductor)         100 V           Max. rated voltage (conductor - conductor)         100 V           Max. rated voltage (conductor - conductor)	Material wire insulation	TPM
Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free           Amount strad single wires         0,25 mm           Conductor grossection (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           Ingredient freeness wire insulation (Power)         white (isolation black)           Amount wires (Power)         4           Amount wires (Power)         0,25 mm           Wire conductor cross section (Power)         0,25 mm           Material conductor wire (Power)         Stranded copper wire, bare           Material conductor wire (Power)         Stranded copper wire, bare           Max. rated voltage (conductor - ground)         600 V           Current load capacity min. wire         12,6 A           Current load capacity min. wire (Power)         12,6 A           Electrical resistance coating wire (Power)         13,7 Ω/km @ 20 °C           Electrical capacity min. wire (Power)         15,0 Mm @ 20 °C <td>Amount wires</td> <td>2</td>	Amount wires	2
Ingredient 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 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 %           (Power)         lead-free, CFC-free, silicone-free           Ingredient freeness wire insulation (Power)         white (isolation black)           Amount wires (Power)         4           Amount strands wire (Power)         0,25 mm           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)         Stranded copper wire, bare           Conductor type wire (Power)         Stranded copper wire, bare           Outrent 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 load capacity (standard)         to DIN VDE 0296 °C           AC withstand voltage (wire - wire)         13,7 Ω/km @ 20 °	Outer diameter tolerance core insulation	±5%
Diameter of single wires         0,25 mm           Conductor crossacction (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         \$tranded 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, silicone-free           Printing colour wire insulation (Power)         4           Amount strands wire (Power)         4           Amount strands wire (Power)         30           Diameter of single wires (Power)         1,5 mm²           Wire conductor rorses 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 - conductor)         1000 V           Max. rated voltage (conductor - ground)         600 V           Current load capacity min. wire         12,6 A           Electrical resistance line constant wire         13,7 Ω/km @20 °C           Current load capacity min. wire (Power)         13,7 Ω/km @20 °C           AC with	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)         white (isolation black)           Amount wires (Power)         4           Amount strands wire (Power)         30           Diameter of single wires (Power)         0,25 mm           Wire conductor vire (Power)         Stranded copper wire, bare           Conductor type 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 (standard)         to DIN VDE 0298-4           Current selstance 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)         2 kV @ 60 s     <	Amount strands (wire)	30
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 strands wire (Power)         30           Diameter of single wires (Power)         0,25 mm           Wire conductor vire (Power)         Stranded copper wire, bare           Conductor type 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 (standard)         to DIN VDE 0298-4           Current selstance 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)         2 kV @ 60 s     <	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)         1,5 mm²           Wire conductor cross section (Power)         15 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 strandard)         to DIN VDE 0298-4           Current load capacity min. wire (Power)         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 - wire)         2 kV @ 60 s           Electrical capacity line constant (wire - shield)         2 kV @ 60 s           Isolation resistance         5000 MΩ × km	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 wires (Power)     4       Amount strands wire (Power)     30       Diameter of single wires (Power)     0,25 mm       Wire conductor vire (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 carrying 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       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)     2 kV @ 60 s       Isolation resistance     5000 MΩ × km       Electrical capacity line constant (wire - wire)     250000 pF/km       Electrical capacity line constant (wire - wire)     250000 pF/km       Electr	Material conductor wire	Stranded copper wire, bare
Tolerance outer diameter wire insulation (Power)    ±5 %     lead-free, CFC-free, silicone-free     Printing colour 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)   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)   13,7 Ω/km @ 20 °C     Electrical resistance line constant wire   13,7 Ω/km @ 20 °C     Electrical resistance coating wire (Power)   1,7 Ω/km @ 20 °C     Electrical capacity line constant (wire - wire)   1,0000 pF/km     Electrical capacity line constant (wire - shield)   160000 pF/km     Electrical capacity line constant (wire - shield)   2 kV @ 60 s     Solation resistance   5000 MΩ × 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	Conductor type (wire)	Strand class 5
Power   Fower   Fow	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 (Power)         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         50000 MΩ × km           Electrical capacity line constant (wire - shield)         2 kV @ 60 s           Isolation resistance         50000 MΩ × km           Electrical capacity line constant (wire - shield)         2 kV @ 60 s<		±5 %
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 - ground) 600 V  Current load capacity (standard) Current load capacity min. wire 12,6 A  Current load capacity min. wire 12,6 A  Current carrying capacity min. wire (Power) 13,7 \( \Omega \text{im} \equiv 20 \circ C  Electrical resistance coating wire (Power) 13,7 \( \Omega \text{im} \equiv 20 \circ C  Electrical capacity line constant (wire - wire) 10000 pF/km  Power frequency withstand voltage (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km  Electrical capacity line constant (wire - shield) 10000 pF/km	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         Current load 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 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         Power frequency withstand voltage (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       2 kV @ 60 s         Isolation resistance       50000 MΩ x km         Electrical capacity line constant (wire - shield)       250000 pF/km         Electrical capacity line constant (wire - shield)       250000 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 capacity line constant (wire - wire) 2 kV @ 60 s  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Isolation resistance (wire - shield) 2 kV @ 60 s  Isolation resistance (wire - shield) 250000 pF/km  Electrical capacity line constant (wire - shield) 250000 pF/km  Electrical capacity line constant (wire - shield) 250000 pF/km  Electrical capacity line constant (wire - shield) 2 kV @ 60 s  Esolation 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       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 - shield)     250000 pF/km       Electrical capacity line constant (wire - shield)     250000 pF/km       Electrical capacity line constant (wire - shield)     250000 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)       160000 pF/km         Power frequency 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 - shield)       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         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)       250000 pF/km          Electrical capacity line constant (wire - wire)       150000 pF/km	Wire conductor cross section (Power)	1,5 mm <sup>2</sup>
Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  600 V  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)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage (wire - shield)  aC withstand voltage (wire - shield)  Electrical capacity line constant (wire - shield)	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 - shield)       250000 pF/km	Conductor type wire (Power)	Strand class 5
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         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	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 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	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 - 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	Current load capacity (standard)	to DIN VDE 0298-4
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  AC withstand voltage (wire - shield) 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) 250000 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)  Electrical capacity line constant (wire - wire)	Current carrying capacity min. wire (Power)	12,6 A
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) 250000 pF/km  Electrical capacity line constant (wire - shield) 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 - 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	AC withstand voltage (wire - wire)	2 kV @ 60 s
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	Electrical capacity line constant (wire - wire)	100000 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	Electrical capacity line constant (wire - shield)	
AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ 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) $150000 \text{ pF/km}$	Power frequency withstand voltage (wire - jacket)	
Isolation resistance $5000 \text{ MΩ} \times \text{km}$ Electrical capacity line constant (wire - shield) (power) $250000 \text{ pF/km}$ Electrical capacity line constant (wire - wire) $150000 \text{ pF/km}$	AC withstand voltage (wire - shield)	2 kV @ 60 s
Electrical capacity line constant (wire - shield) (power) 250000 pF/km  Electrical capacity line constant (wire - wire) 150000 pF/km		5000 MΩ × km
Electrical capacity line constant (wire - wire)		
	Electrical capacity line constant (wire - wire) (power)	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