

M23 SERVO CABLE

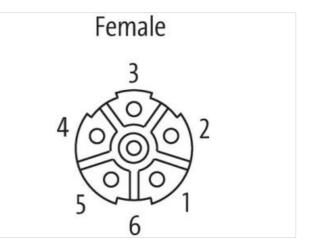
Specification: 6FX5002-5DS06-1BA0

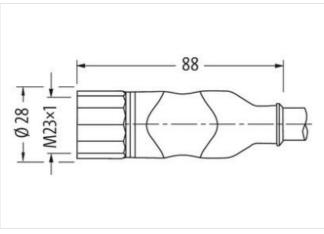
Female straight – pre-wired terminals M23, 6-pole shielded Power connector SIEMENS Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake without cable sleeves Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. 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

10 m	
2 Nm	
M23	
M23 x 1	
	2 Nm M23

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



suitable for corrugated tube (internal \emptyset)	16 mm
Width across flats	SW27
Side 2	
Family construction form	M23
suitable for corrugated tube (internal \emptyset)	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	EC001855
customs tariff number	85444290
GTIN	4048879656450
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
_ocking material	Brass
5	
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	
wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow) 861
wire arrangement Cable identification Function cable	

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Arnout stranding 1 Stranding 2 wets with Filter Instanding Constitution Instand Arnout stranding (type 2) 1 Stranding (type 2) 4 wets with Filter anound Stranding constitution Instand Cable straiding (type 2) 0 coper trand, finned Cable straiding (type 1) 0 coper trand, finned Dami Instalding (type 1) 0 coper trand, finned Barring Pilter Tupe, Tipecon, Foll Filter 96 Wite attragement 0005.5 g/m Material Lacks PVC Cable straight 0005.5 g/m Material Lacks PVC Freedom torin ingreedents (global) 10.4 mm Cable straight 10.4 mm Cable straight 10.4 mm Cable attraight installation 10.4 mm Cable distraight 10.4 mm Cable distraight installation 10.4 mm Cable distraight installation 2.4 mm Cable distraight installation 2.4 mm Cable distraight installation 2.4 mm Cardiard distraight installatin 15 % Mater	Type of Certificate	cURus
Anourt stranding (type 2) 1 Stranding (type 2) 4 wises with Filter around Stranding combination twisted Cable shielding (type) oopper trail, (Inned Cable shielding (type) oopper trail, (Inned Banding Fiber type, Fience, Foll Filter yes Wire arrangement black, white, (black WL3/DL-, black UL1/CL+, black VL2, green-yellow) Cable weight 28.3, gim Material jacke PVC Freedom from ingradients (jacke) 10.4 mm Cable weight 25.5, gim Material jacke PVC Freedom from ingradients (jacke) 10.4 mm Cable diameter (aleastr) 5 % Material index 2 Cubr diameter installation 2.4 mm Cubr diameter installation 1.5 % Ingradient freenoes wire installation 1.5 % Conductor foressection (write) 1.5 mm² Material conductor wire Strand dass 5 Conductor foressection (write) 1.5 mm² Material conductor wire Strand dass 5 Conductor type wire (Power) 3.0	Amount stranding	1
Stracking (type 2) 4 wires with Filer around Stranding combination twisted Cable shading (type) copper braid, tinned Cable shading (coverage) 85 % Pair Shiding (type) copper braid, tinned Banding Pier Shiding (type) Were arrangement black, white, (black WL3/DL, black UL1/CL, black VL2, green-yellow) Cable weigh 203.5 g/m Material jackst PVC Freedom from improdents (jackst) 10.4 mm Cable weigh 10.4 mm Cable weigh 2.4 mm Cater dismeter (steam) 2.5 % Material were insulation TPM Amount wes 2 Outer dismeter televance once insulation 2.5 % Cater dismeter insulation 2.4 mm Cater dismeter insulation 1.5 fm Canductor consection (wire) 1.5 mill Diamater of single wires 0.25 mm Canductor consection (wire) 1.5 fm Cater dimeter wire insulation (Power) 2.4 mm Televance suiter features wire insulation (Power) 2.6 fm Televance suiter features wire insulation (Stranding	2 wires with Filler twisted
Cable shielding (coverage) 85 % Cable shielding (coverage) 85 % Par alleding (tpp) cooper traid, fined Banding Fiber tape, Flesce, Foll Filer yes wire arrangement black, white, (black WL3:DL-, black UL1:CL+, black VL2; green yellow) Cable weigh 203,5 gin Material jacket PVC Freedem from ingradents (jacket) laad free, CFC free, silicone free Cable weigh 203,5 gin Cable disorder (freedem) 10,4 mm Toerance outer disorder (south) 15 % Cable disorder freedem) 10,4 mm Toerance outer disorder (south) 2 5 % Cable disorder freedem) 10,4 mm Amount visitand, kroin 2 4 mm Cable disorder lowance core insulation 2 5 % Canduct disorder (wein) 30 Danneter of single wires 0.25 mm Conductor type (wein) 0.5 mm² Canduct transfer insulation 2 % % Profeedem 2 % Canduct type (wein) 0.4 mm Canductor type (wein)	Amount stranding (type 2)	1
Cable selecting (coverage) 65 % Pair shelding (type) coppor braid timed Bair shelding (type) coppor braid timed Filer y6 wire arrangement black, while, (black WL3:DL,, black UL1,rCL+, black VL2, green yellow) Cable weigh 203.5 g m Material jackst PVC Freedom from ingredients (jacku) 10.4 rm Order diameter (steaki) 5 % Material yackst PVC Freedom from ingredients (jacku) 10.4 rm Order diameter (steaki) 5 % Material wei installation 2.4 mm Outer diameter installation 2.4 mm Conduct of urge weire installation 1.5 % Conductor recossection (wire) 3.0 Diameter of aingle weire 0.2 Conductor recossection (wire) 1.5 mm ² Conductor weire installation (Power) 2.4 mm Conductor weire installation (Power) 2.4 mm Conductor weire installation (Power) 2.4 mm Tolerance outer diameter weire installation (Power) 30 Diameter of aingle wires installation (Power) <td>Stranding (type 2)</td> <td>4 wires with Filler around Stranding combination twisted</td>	Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Pair shielding (type) copper brait, timed Banding Fiber tape, Reece, Foil Filer yes wire strangement block, white, (block WL3DLr, block UL1/CL+, block VL2, green-yellow) Cable weigh 20.5 g/m Material jacket PVC Freedom from ingredients (jacket) 10.4 mm Tolerance outer diameter (inglesh) 1.5 % Cuter diameter (inglesh) 2.5 % Cuter diameter formace core insulation 2.4 mm Outer diameter formace core insulation 2.4 mm Conter diameter formace core insulation 2.5 % Ingredient freemese wire insulation ead-free, CFC-free, silicone-free Amount strainds 0.25 mn Conduct crassescient (wire) 3.0 Danater of single wires 0.25 mn Conductor type (wire) Shand coper wire, bare Conductor vire (matter wire insulation (Power) 1.5 % Printing color wire insulation (Power) 4.4 mm Tolerance outer diameter wire insulation (Power) 1.5 % Impredient freeses wire insulation (Power) 1.5 % Impredient freeses wire insulation (Power	Cable shielding (type)	copper braid, tinned
Banding Fiber tape, Fleece, Foil Filler yes wire arrangement Dakk, white, (black WL3:DL-, black UL1:CL+, black VL12; green-yellow) Cable weighth 203.5 g/m Material jacket PVC Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free Outer -diameter (isolation) 7.5 % Material jacket 9.5 % Material jacket 7.6 % Material jacket 7.6 % Material jacket 7.6 % Material jacket 7.6 % Carler diameter insulation 2.4 mm Outer diameter insulation 1.6 % Forefreent Free 7.6 mm Candiduct ordissection (wire) 3.5 mm² Diameter of single wires 0.25 mm Conductor ordissection (wire) 1.5 m² Outer diameter wire insulation 1.6 % Conductor ordissection (wire) 1.5 m² Outer diameter wire insulation 1.6 % Conductor wire insulation 1.6 % Conductor wire insulation 1.6 % Conductor wire insulation 1	Cable shielding (coverage)	85 %
File: yes wire arrangement back, white, (black WL3:DL1; black UL1:CL+, black VL2; green-yellow) Cable weigh 203.5 g/m Material picket PVC Freedom tom ingedentis (gacket) lead-two, CFC-tree, alicone-tree Outer-diameter (gacket) 10.4 mm Tolerance outer diameter (gacket) 5 % Material wire insulation TPM Amount wires 2 Outer diameter foreance one insulation 4 5 % Material wire insulation 4 mm Conductor crosssection (wire) 30 Dameter of single wires 0.25 mm Conductor crosssection (wire) 1.5 mm ² Outer diameter wire insulation 24 mm Conductor crosssection (wire) 35 % Outer diameter wire insulation 25 mm Conductor vires measulation 25 % Outer diameter wire insulation 25 % User diameter wire insulation (Power) 24 mm Order diameter wire insulation (Power) 46 Outer diameter wire insulation (Power) 46 Amount strands wire (Power) 30	Pair shielding (type)	copper braid, tinned
wire arrangement black, while, (black WIL2/DL-, black VIL2, green-yellow) Cable weight 203.5 g/m Material jacket PVC Freedom from ingredients (glacket) lead-free, CFC-tree, silicone-free Outer diamater (glacket) 10.4 mm Tearance cuiter diameter (ghaeth) 15 % Material jacket 2 Outer diameter insulation 2.4 mm Cater diameter insulation 1.5 % Tigredient freeness wire insulation 1.6 % Cater diameter insulation 0.24 mm Cater diameter insulation 0.24 mm Cater diameter insulation 0.25 mm Conductor regresses wire insulation 0.25 mm Conductor regressection (wire) 1.5 mm² Conductor regressection (wire) 1.5 mm² Conductor regressection (wire) 1.5 mm² Conductor regressection (wire) 1.5 % Conductor regressection (wire) 1.5 m² Conductor regressection (wire) 1.5 m² Conductor regressection (wire) 1.5 mm² Conductor wire insulation (Power) 4.4 mm Tearence outrie d	Banding	Fiber tape, Fleece, Foil
Cable weight 203.5 g/m Material jacket PVC Freedom from ingredients (jacket) 10.4 mm Tolerance outer diameter (jacket) 10.4 mm Tolerance outer diameter (jacket) 10.4 mm Outer diameter insulation 2.4 mm Outer diameter insulation 2.4 mm Outer diameter to forance ore insulation 12.5 % Ingredient freeness wire insulation 16.5 % Material wire insulation 0.24 mm Outer diameter insulation 1.5 mm² Material ore insulation 1.5 mm² Material conductor vire Strand closper wire, bare Conductor vire Strand closper wire, bare Conductor vire 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) 30 Dameter of single wires (Power) 30 Dameter of single wires (Power) Strand class 5 Conductor vire (Power) Strand class 5 Conductor vire (Power) Strande opper wire, bare	Filler	yes
Material jacket PVC Freedom from ingredients (jacket) lead-free, CPC-free, silicone-free Outer diameter (sheath) 1.5 % Material wire insulation TPM Amount wires 2 Outer diameter insulation 2.4 mm Outer diameter insulation 1.6 % Ingredient freeness wire insulation lead-free, CPC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0.28 mm Conductor crossection (wire) 1.5 mm ⁴ Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Outer diameter twire insulation (Power) ±.4 mm Tolefarace surfer dameter twire insulation (Power) ±.5 % Ingredient freeness wire insulation (Power) ±.4 mm Tolefarace surfer dameter twire insulation (Power) ±.6 % Ingredient freeness wire insulation (Power) 4 Amount strands (Wire (Power) 0.2 mm Diameter of single wires (Power) 0.25 mm Material conductor vire section (Power) 1.5 mm ⁴ Material conductor vires section (Power)<	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, CPC-free, silicone-free Outer-diameter (jacket) 10,4 mm Tolerance uter diameter (keath) ± 5 % Material wire insulation TPM Amount wires 2 Outer diameter insulation 2,4 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Amount stands (wire) 30 Dameter of single wires 0.25 mm Conductor crosssection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor vire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 4 Amount wires (Power) 30 Diameter of single wires (Power) 30 Diameter of single wires (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 4 Amount wires (Power) 4 Amount wires (Power) 30 Diameter of single wires (Power) 30	Cable weigth	203,5 g/m
Outer diameter (jacket) 10,4 mm Toferance outer diameter (jacket) ± 5 % Materia Wein staulation TPM Amount wires 2 Outer diameter insulation 2.4 mm Outer diameter insulation 12.4 mm Outer diameter insulation 12.4 mm Outer diameter insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0.25 mm Conductor crosssection (wire) 1,5 mm² Conductor view Stranded copper wire, bare Conductor view Stranded copper wire, bare Conductor view (wire) 1,5 mm² Outer diameter wire insulation (Power) 2,4 mm Toferance outer diameter wire insulation (Power) 4 Amount wires (Power) 4 Amount stands wire (Power) 0.25 mm Diameter of single wires 0.25 mm Wire conductor view (Power) 0.25 mm Wire conductor view (Power) 0.25 mm Wire conductor view (Power) 0.55 md Material conductor view (Power) 1.5 mm²	Material jacket	PVC
Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPM Anount wires 2 Outer diameter (insulation 2.4 mm Outer diameter (insulation) ± 5 % Imgredient (Teness wire insulation) ± 6 % Ingredient (Teness wire insulation) ± 6 % Contout or consess wire insulation ± 6 % Conductor vises wire insulation ± 6 % Conductor vises wire insulation ± 6 % Conductor vises wire insulation 0.25 mm Conductor vise (wire) 1.5 mm² Conductor vise (wire) Stranded cases 5 Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 4 Amount wires (Power) 4 Amount wires (Power) 4 Amount wires (Power) 0.25 mm Wires conductor rows section (Power) 0.25 mm Wires conductor rows section (Power) 1.5 mm² Material conductor wire (Power) Stranded cases 5 Conductor type wire (Power) Stranded cases 5 Max. rated voltage (conductor - conduc	Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Material wire insulation TPM Amount wires 2 Outer diameter isolation 2.4 mm Outer diameter isolation 1.5 % 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 mm ² Material conductor wire Strand class 5 Outer diameter wire insulation 1.5 % Tolerance outer diameter wire insulation 1.5 % Tolerance outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) 4.4 mm Tolerance outer diameter wire insulation (Power) 4.5 % Amount strands wire (Power) 4 Amount wires (Power) 4 Amount wires (Power) 30 Diametor of single wires (Power) 0.25 mm Wire conductor ross section (Power) 1.5 mm ² Material conductor wire (Power) Strand class 5 Outer diameter wire (Power) Strand class 5 Max. rated voltage (conductor - conductor) 1000 V Material conductor wire (Power) Strand class 5 Max. rated voltage (conductor - conductor) 1000 V Current load capacity (strand wire) 12.6 A	Outer-diameter (jacket)	10,4 mm
Amount wires 2 Outer diameter insulation 2.4 mm Outer diameter insulation ± 5 % Ingredient freeness wire insulation tead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0.25 mm Conductor crossection (wire) 1.5 mm ² Matorial conductor wire insulation tead-free, CFC-free, silicone-free Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor vire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) e.4 mm Tolerance outer diameter wire insulation (Power) e.ad-free, CFC-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 30 Diameter of single wires (Power) 0.25 mm Miterial conductor wire (Power) Stranded copper wire, bare Conductor type (wire) (Power) Stranded copper wire, bare Conductor type (Power) Stranded copper wi	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 stands (wire) 30 Diameter of single wires 0.25 mm Conductor crosssection (wire) 1.5 mm ² Material conductor vire Stranded copper wire, bare Conductor type (wire) Strand class 5 Outer diameter wire insulation ±5 % Ingredient freeness wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) white (isolation black) Amount strands wire (Power) 30 Diameter of single wires (Power) Stranded copser wire, bare Conductor ross section (Power) Stranded class 5 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Current load capacity (sindard) to DIN VDE 0298-4	Material wire insulation	ТРМ
Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Arnount strands (wire) 30 Diameter of single wires 0.25 mm Conductor ressescion (wire) 1,5 mm² Material conductor wire Strandel copper wire, bare Conductor (yee (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) 15 % Ingredient freeness wire insulation (Power) 16 sch - cc, CFC-ree, silicone-free Printing colour wire insulation (Power) 4 Amount wires (Power) 30 Diameter of single wires (Power) 0.25 mm Wire conductor or cross section (Power) 1.5 mm² Material conductor wire (Power) Strand class 5 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 load capacity (standard) to DIN VDE 0298-4 Current load capacity (st	Amount wires	2
Ingradient freeness wire insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0.25 mm Conductor or sessection (wire) 1.5 mm ² Material conductor wire Strand copper wire, bare Conductor type (wire) Strand class 5 Outer diameter wire insulation (Power) 2.4 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingradient freeness wire insulation (Power) white (isolation black) Amount strands wire (Power) 4 Amount wires (Power) 4 Amount wires (Power) 4 Amount wire (Power) 30 Diameter of single wires (Power) 0.25 mm Wire conductor wire (Power) 1.5 mm ² Material conductor ire (Power) Strand class 5 Conductor type wire (Power) Strand class 5 Conductor vire (wire Power) Strand class 5 Max. rated voltage (conductor - oround) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (stan	Outer diameter insulation	2,4 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 copper wire, bare Conductor wire insulation (Power) 2,4 mm Tolerance outre diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) 46 % Ingredient freeness wire insulation (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 0.25 mm Diameter of single wires (Power) 0.25 mm Wire conductor ross section (Power) 0.25 mm Wire conductor wire (Power) 0.25 mm Material conductor - conductor) 500 V Current cod capacity (standard) 1.5 mm² Material conductor - conductor) 5100 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current toad capacity min. wire (Power) 12.6 A Electrical resistance in constant wire 13.7 Ω/km @ 20 °C <t< td=""><td>Outer diameter tolerance core insulation</td><td>±5%</td></t<>	Outer diameter tolerance core insulation	±5%
Diameter of single wires 0.25 mm Conductor rosssection (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) e45 % Ingredient freeness wire insulation (Power) white (isolation black) Amount strands wire (Power) 4 Amount strands wire (Power) 0,25 mm Wire conductor wire (Power) 0,25 mm Waterial conductor wire (Power) 0,25 mm Waterial conductor wire (Power) 1,5 mm² Material conductor wire (Power) 0,25 mm Wire conductor cross section (Power) 1,5 mm² Material conductor wire (Power) 5 strande class 5 Material 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 12,6 A Current load capacity min. wire (Power) 13,7 Ωkm @20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical resistance enter constant wire 13,7 Ωkm @20 °C AC withstand voltage (wire - shield) 2 kV @ 60 s	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 Ouber diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) 4 Amount wires (Power) 4 Amount wires (Power) 4 Amount strands wire (Power) 0.25 mm Wire conductor oros section (Power) 0.25 mm Material conductor wire (Power) Strand class 5 Material conductor wire (Power) Stranded copper wire, bare Conductor type (wire) 0.25 mm Material conductor wire (Power) Stranded copper wire, bare Conductor vire (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 (Power) 13.7 Ω/km @20 °C Electrical resistance lone constant wire 13.7 Ω/km @20 °C Electrical resistance lone constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) </td <td>Amount strands (wire)</td> <td>30</td>	Amount strands (wire)	30
Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Outer diameter wire insulation (Power) 2,4 mm Tolerance outre diameter wire insulation ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, silicone-free Printing colour wire insulation (Power) 4 Amount wires (Power) 4 Amount strands wire (Power) 30 Diameter of single wires (Power) 0,25 mm Wire conductor ross section (Power) 1,5 mm ² Material conductor wire (Power) Strande copper wire, bare Conductor type wire (Power) Strande copper wire, bare Conductor type wire (Power) Strande copper wire, bare Conductor type wire (Power) Strande 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 corarying capacity min. wire (Power) 13,7 0/km @20 °C Electrical resistance ine constant (wire - wire) 13,7 0/km @20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s E	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 strands wire (Power) 4 Amount strands wire (Power) 0.25 mm Wire conductor ross section (Power) 1.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor vire (Power) Strande copper wire, bare Conductor vire (Power) Stranded copper wire, bare Conductor vire (Power) Strande 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 13,7 Ω/km @ 20 °C <t< td=""><td>Conductor crosssection (wire)</td><td>1,5 mm²</td></t<>	Conductor crosssection (wire)	1,5 mm ²
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) 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 Current load capacity min. wire 13,7 Ω/km @ 20 °C Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical capacity line constant (wire - wire) 12 kV @ 60 s Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - shield) 2 kV @ 60 s Electrical capacity line con	Material conductor wire	Stranded copper wire, bare
Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, silicone-free Printing colour wire insulation (Power) while (isolation black) 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 min. wire 12,6 A Current load capacity min. wire (Power) 13,7 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - shield) 160000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Electrical capacity line constant (wire - shield) 2 kV @ 60 s Lectrical capacity line constant (wire - shield) 2 kV @ 60 s Lectrical capacity line constant (wire - shield) 2 kV @ 60 s Lectrical capacity line constant (wire - shield) 2 kV @ 60 s Lectrical capacity line constant (wire - shield)	Conductor type (wire)	Strand class 5
(Power) 25% Ingredient freeness wire insulation (Power)kead-free, CFC-free, silicone-freePrinting colour wire insulation (Power)white (isolation black)Amount strands wire (Power)30Diameter of single wires (Power)0,25 mmWire conductor cross section (Power)1,5 mm²Material conductor wire (Power)Stranded copper wire, bareConductor type wire (Power)Stranded copper wire, bareConductor type wire (Power)Strand class 5Max. rated voltage (conductor - conductor)1000 VMax. rated voltage (conductor - ground)600 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current carrying capacity min. wire12,6 ACurrent carrying capacity min. wire13,7 Ω /km @ 20 °CElectrical resistance line constant wire13,7 Ω /km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)100000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sStoaton resistance5000 M $\Omega \times$ kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStoaton resistance5000 M $\Omega \times$ kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStoaton resistance50000 M $\Omega \times$ kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStoaton resistance50000 M $\Omega \times$ kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStoaton	Outer diameter wire insulation (Power)	2,4 mm
Printing colour wire insulation (Power)white (isolation black)Amount wires (Power)4Amount strands wire (Power)30Diameter of single wires (Power)0,25 mmWire conductor cross section (Power)1,5 mm²Material conductor wire (Power)Stranded copper wire, bareConductor type wire (Power)Strand class 5Max. rated voltage (conductor - conductor)1000 VMax. rated voltage (conductor - ground)600 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12,6 AElectrical resistance line constant wire13,7 Ω/km @ 20 °CAc withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - shield)160000 pF/kmPower frequency withstand voltage (wire - ack wire)2 kV @ 60 sAc withstand voltage (wire - shield)2 kV @ 60 sStolation resistance5000 MQ × kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStolation resistance5000 MQ × kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStolation resistance5000 MQ × kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStolation resistance5000 MG × kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStolation resistance5000 MG × kmElectrical capacity line constant (wire - shield)2 kV @ 60 sStolation resistance5000 MG × kmElectrical capacity line constant (wire - shield)2 kV @		±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) Stranded 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 load capacity min. wire (Power) 13,7 Ω/km @ 20 °C Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Ac withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 10000 pF/km Electrical capacity line constant (wire - shield) 2 kV @ 60 s Ac withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MQ × km Electrical capacity line constant (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MQ × km Electrical capacity line constant (wire - shield) 2 kV @ 60 s Stolation resistance 50000 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 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 Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - alked) 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 S0000 pF/km Electrical capacity	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 Power frequency withstand voltage (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 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) 250000 pF/km Electrical capacity line constant (wire - wire) 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 AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 100000 pF/km Power frequency withstand voltage (wire - jacket) 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 Isolation resistance 50000 MΩ × km Electrical capacity line constant (wire - shield) 2 50000 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) 160000 pF/km Power frequency withstand voltage (wire - jacket) 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 s0000 pF/km Electrical capacity line constant (wire - shield) 2 s0000 pF/km Electrical capacity line constant (wire - shield) 2 s0000 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 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) 2 kV @ 60 s Isolation resistance 50000 pF/km Electrical capacity line constant (wire - shield) 2 kV @ 60 s Isolation resistance 50000 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 mm²
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 AC withstand voltage (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) 250000 pF/km Electrical capacity line constant (wire - shield) 250000 pF/km Electrical capacity line constant (wire - shield) 250000 pF/km	Material conductor 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 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 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) 2 s0000 pF/km Electrical capacity line constant (wire - shield) 2 s0000 pF/km	Conductor type wire (Power)	
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 Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 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	Max. rated voltage (conductor - conductor)	
Current load capacity min. wire12,6 ACurrent carrying capacity min. wire (Power)12,6 AElectrical resistance line constant wire13,7 $\Omega/km @ 20 °C$ Electrical resistance coating wire (Power)13,7 $\Omega/km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)100000 pF/kmElectrical capacity line constant (wire - shield)160000 pF/kmPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - sided)2 kV @ 60 sElectrical capacity line constant (wire - shield)2 kV @ 60 sElectrical capacity line constant (wire - shield)2 kV @ 60 sElectrical capacity line constant (wire - shield)2 kV @ 60 sIsolation resistance5000 MΩ × kmElectrical capacity line constant (wire - shield)250000 pF/kmElectrical 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) 250000 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) 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) 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	Current load capacity min. wire	12,6 A
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) 250000 pF/km	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 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 - shield) 250000 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 - 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) 250000 pF/km	AC withstand voltage (wire - wire)	2 kV @ 60 s
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
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)	160000 pF/km
Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) (power) 250000 pF/km Electrical capacity line constant (wire - wire) 150000 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) 250000 pF/km Electrical capacity line constant (wire - wire) 150000 pF/km	Isolation resistance	5000 MΩ × km
		250000 pF/km
		150000 pF/km

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



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

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