

## **M23 SERVO CABLE**

Specification: 6FX8002-5DA05-1AF5

Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake Female straight - male straight

M23 - M23, 6-pole

shielded

without cable sleeves

Further cable lengths on request.

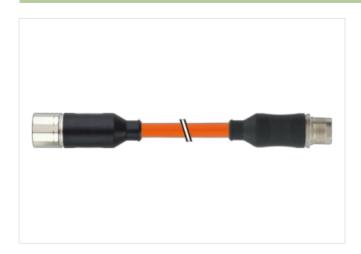
Plastic housings with good resistance against chemicals and oils.

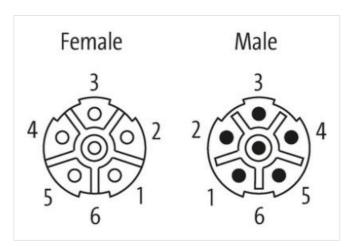
The resistance to aggressive media should be individually tested for your application. Further details on request.

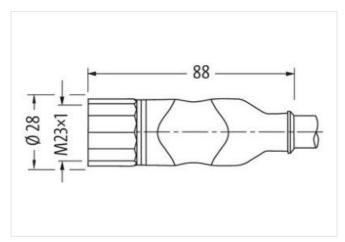
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

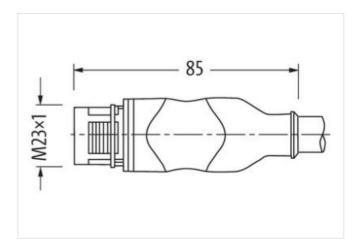
## **Link to Product**

## Illustration









Product may differ from Image

Cable length	5,5 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: 2024-05-20



stay connected

suitable for corrugated tube (internal Ø)	16 mm
Nidth across flats	SW27
Side 2	
Family construction form	M23
suitable for corrugated tube (internal Ø)	23 mm
Commercial data	
	07070040
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0 ECLASS-8.0	27279218
	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	4048879796811
Packaging unit	1
Electrical data   Supply	
Operating voltage AC per power contact max.	600 V
Operating voltage AC per signal contact max.	250 V
Operating voltage DC per power contact max.	600 V
Operating voltage DC per signal contact max.	250 V
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage power contacts	4 kV
Rated surge voltage signal contacts	2 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	nickel plated
Material housing	PUR
Locking material	Brass
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
· · · · · ·	aspensing on outle 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	
	821
Cable identification	
	Hybrid, Signal, Power
Cable identification	
Cable identification Function cable	Hybrid, Signal, Power
Cable identification Function cable Jacket Color	Hybrid, Signal, Power orange

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stay connected

Sendoning (year 92   wire a with Filter around Stranding combination bristated  Cable shibiding (year) coper braid, finand  Cable shibiding (year) coper braid, finand  Bandring Filter year  Filter were arrangement processed bandring of Filter table (Filter Speece, Follow)  Cable weight  Material gasete Threedom from in gradients (jacket) basek wite, (piback WM_SIDL_L, black LUL_LCL_t, black VLI_2, green-yellow)  Cable weight  Material war in gradients (jacket)  The Filter Speecom from in gradients (jacket)  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Cater dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Armount strends (virile)  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Armount strends (virile)  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Filter dismarker fractions of the sea-dise, CFC-dise, habigen-filee, silicone-filee  Filter dismarker fractions of the sea-dismarker fr	Amount stranding (type 2)	1
Cable shielding (coverage)         55 %           Flavoring (type)         copper braid, finned           Banching (type)         copper braid, finned           Banching (type)         copper braid, finned           Banching (type)         press present (type)           Cable weigh         past (type)           Cable weigh         23 1 pm           Material pasted         TMPU           Finedom from ingredients (judent)         as-6-tex (FC-free, habopen-free, allicone-free)           Care-diameter (gabety)         11.3 mm           Tollerance outer diameter (spacety)         11.3 mm           Amount wises         2           Cuter diameter tradition         2.4 mm           Outer diameter tradition         2.5 %           Improvisor (frommers wire invalidation (we)         8.5 %           Diameter of single wiree         0.15 mm           Conductor transaction (we)         8.5 %           Material conductor were         Stranded copper wire, bare           Conductor (type) (wire)         3.1 mm           Material conductor were         4.2 mm           Conductor (type) (wire)         4.4 mm           Material conductor wire (Fower)         4.4 mm           Manual strands wire (Fower)         4.4 mm		
Cable shedring (powerage)         85 %           Pair chelding (type)         copper braid (inned)           Sanding         Fiber tape, Fleece, Foll           Filter         yes           Sanding         Fiber tape, Fleece, Foll           Filter         yes           Cable weight         23 from           Marierial jacket         TMPU           Freedom from ingrodients (packet)         15 from           Colum Gardiner (sheaket)         15 %           Material wire insulation         TPM           Amount wires         2           Outer diameter (sheaket)         15 %           Material wire insulation         15 %           User diameter (sheaket)         15 %           Outer diameter (sheaket)         15 %           Outer diameter (sheaket)         15 %           User diameter (sheaket)         15 %           User diameter (sheaket)         15 %           User diameter (sheaket)         15 mm           Impredient fremess wire insulation         15 mm²           Impredient fremes wire insulation (swire)         94           Barrander or single wires         0,15 mm²           Conductor type (wire)         15 mm²           Colar clampter wire insulation (Fower)	5 t 3 t 7	-
Past shielding (type)		
Fiber tape, Fleece, Fol		
Filter		
wise arrangement         black, white, (black WLS DL-, black UL1-CL-, black VL2, green-yelow)           Cable weight         231 pm           Material jacket         TMPU           Freedom from ingredients (jacket)         11.3 mm           Outer-diametre (jacket)         11.5 mm           Tollerance outer diameter (wheath)         ± 5 %           Material wire insulation         TPM           Armount wires         2           Outer diameter insulation         ± 5 %           Ingressin freeness wire insulation         ± 5 mm           Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Strand dooper wire, barre           Conductor (Power)         24 mm           Onductor (Power)         24 mm           Outer diameter wire insulation (Power)         45 %           Ingressin freeness wire insulation (Power)         45 %           In		·
Cable weigh         23 f/m           Material jacket         TMPU           Freedom from ingredients (jacket)         11,3 mm           Outser-diameter (jacket)         11,3 mm           Allorial wire insulation         TPM           Amount wire insulation         2 mm           Outser diameter tolerance core insulation         2.5 %           Ingredient feeness wire insulation         2.5 %           Diameter of single wires         0.15 mm           Observation of single wires         0.15 mm           Observation of single wires         0.15 mm           Material conductor wire         Stranded copper wire, bare           Conductor Orassociation (Power)         1.5 mm²           Material wire insulation (Power)         TPM           Material wire insulation (Power)         TPM           Outser diameter wire insulation (Power)         TPM           Outser diameter wire insulation (Power)         4 mm           Printing optiour wire insulation (Power)         4 mm           Printing optiour wire insulation (Power)         84           Amount strands wire (Power)         84           Diameter of single wires (Power)         84           Diameter (Power)         84           Diameter (Power)         84		·
Material jacket   TMPU   Intended from from Ingredients (jacket)   11,3 mm   12 mm   15 %	<u> </u>	
Freedom from ingredients (gacket)   Lead free, CFC- free, halogen-free	·	
Outer-diameter (jacket)         11,8 mm           Tolerance outer diameter (rahealth)         ± 5 %           Amount wires         2           Outer diameter insulation         2,4 mm           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         ± 6 %           Amount strands (wire)         84           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         1,5 mm²           Material wire insulation (wire)         84 mm           Conductor yee (wire)         strand class 6           Conductor type (wire)         strand class 6           Material wire insulation (Power)         7PM           Outer diameter wire insulation (Power)         24 mm           Tolerance outer diameter wire insulation (Power)         45 %           Ingredient treeness wire insulation (Power)         45 %           Ingredient treeness wire insulation (Power)         44 mm           Ingredient treeness wire insulation (Power)         45 %           Ingredient treeness wire insulation (Power)         515 mm	·	
Tolerance outer diameter (sheath)		
Material wire insulation		
Amount wires         2           Outer diameter insulation         2.4 mm           Outer diameter tolerance core insulation         15 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free, silicone-free           Amount strands (virie)         84           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Power)         TPM           Outer diameter wire insulation (Power)         2.4 mm           Tolerance outer diameter wire insulation (Power)         4 mm           Tolerance outer diameter wire insulation (Power)         4 mm           Printing colour wire insulation (Power)         white (isolation black)           Amount strands wire (Power)         84           Dameter of single wires (Flower)         84           Material conductor wire (Power)         9.15 mm²           Material conductor wire (Power)         1.5 mm²           Material conductor wire (Power)         1.5 mm²           Material virial wire (Power)         1.5 mm²           Material virial wire (Power)         1.5 mm²           Max. rated voltage (conductor		
Outer diameter insulation         2,4 mm           Outer diameter tolerance core insulation ingredient freeness wire insulation         ± 5 %           Diameter of single wires         0,15 mm           Diameter of single wires         0,15 mm           Material conductor wire         Stranded copper wire, bare           Conductor (pye (wire)         strand class 6           Material conductor wire insulation (Power)         2,4 mm           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         beach free, CFC-free, halogen-free, silicone-free           Ingredient freeness wire insulation (Power)         beach free, CFC-free, halogen-free, silicone-free           Ingredient freeness wire insulation (Power)         white (solation black)           Ingredient freeness wire insulation (Power)         beach free, CFC-free, halogen-free, silicone-free           Ingredient freeness wire insulation (Power)         white (solation black)           Amount wires (Power)         4           Amount wires (Power)         84           Uirander of single wires (Power)         1,5 mm²           Material conductor wire (Power)         5 stranded copper wire, bare           Max. rated voltage (conductor - conductor)         600 V           Max. rated voltage (conductor - ground)         600 V      <		
Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         84           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Power)         TPM           Outer diameter wire insulation (Power)         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)         4,4 mm           Printing colour wire insulation (Power)         white (isolation black)           Amount wires (Power)         4           Wince onductor cross section (Power)         84           Diameter of single wires (Power)         9,5 mm²           Will adelation conductor wire (Power)         1,5 mm²           Will adelation conductor wire (Power)         1,5 mm²           Max. rated voltage (conductor - conductor)         1000 V           Max. rated voltage (conductor - conductor)         1000 V           Current load capacity (iran wire)<	Amount wires	2
Ingredient freeness wire insulation lead-free, CPC-free, halogen-free, silicone-free Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor rossesection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2,4 mm Telerance outer diameter wire insulation (Power) 2.5 % Ingredient freeness wire insulation (Power) 4.5 % Ingredient freeness wire insulation (Power) bear-free, CPC-free, halogen-free, silicone-free Printing color wire insulation (Power) white (isolation black) Amount wires (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 5.5 mm² Material conductor vire (Power) 1,5 mm² Material conductor wire (Power) 5.5 mm² Material conductor wire (Power) 6.0 mm² Material conductor wire (Power) 7 Max. rated voltage (conductor - ground) 600 V Max. rated	Outer diameter insulation	2,4 mm
Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor or sessection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 2,4 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) 4 white (isolation black) Marcurt wires (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 5 stranded copper wire, bare Outer of single wires (Power) 4 Amount strands wire (Power) 1,5 mm² Material conductor wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 5 stranded copper wire, bare Conductor type wire (Power) 600 V Current load capacity (standard) 100 DIN VDE 0298-4 Current load capacity (standard) 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) 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 13,7 Ω/km @ 20 °C Electrical resistance wire (Power) 13,7 Ω/km @ 20 °C Electrical capacity line constant (wire - wire) 160000 pF/km Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s Electrical capacity line constant (wire - shield) 4 kV @ 300 s	Outer diameter tolerance core insulation	
Diameter of single wires   0,15 mm	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Power)         TPM           Outer diameter wire insulation (Power)         ±5 %           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         bad-free, CFC-free, halogen-free, silicone-free           Printing colour vive insulation (Power)         4           Amount wires (Power)         4           Amount strands wire (Power)         84           Diameter of single wires (Power)         0,15 mm²           Wire conductor vive (Power)         Stranded copper wire, bare           Material conductor wire (Power)         Stranded copper wire, bare           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 VE 0298-4           Current load capacity min. wire         12,6 A           Electrical resistance constant wire         13,7 Ω/km @20 °C           Electrical resistance constant (wire - shield)         4 kV @ 300 s <th< td=""><td>· · ·</td><td></td></th<>	· · ·	
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Power)         TPM           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         lead-free, CFC-free, halogen-free, silicone-free           Printing colour wire insulation (Power)         4           Amount wires (Power)         4           Amount strands wire (Power)         84           Diameter of single wires (Power)         1,5 mm²           Material conductor wire (Power)         Stranded copper wire, bare           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)         600 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12,6 A           Electrical resistance lea constant wire         13,7 0/km @ 20 °C           AC withstand voltage (wire - wire)         4 kV @ 300 s           Electrical capacity line constant (wire - shield)         4 kV @ 300 s <td></td> <td>0,15 mm</td>		0,15 mm
Conductor type (wire)         strand class 6           Material wire insulation (Power)         TPM           Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         dead-free, CFC-free, halogen-free, silicone-free           Printing colour wire insulation (Power)         4           Amount wires (Power)         4           Amount strands wire (Power)         84           Diameter of single wires (Power)         0,15 mm           Wire conductor cross section (Power)         1,5 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         Stranded copper wire, bare           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 carrying capacity min. wire (Power)         12,6 A           Electrical resistance loane constant wire (Power)         13,7 Ω/km @ 20 °C           Electrical capacity line constant (wire - wire)         4 kV @ 300 s           Electrical capacity line constant (wire - shield)         4 kV @	Conductor crosssection (wire)	1,5 mm <sup>2</sup>
Material wire insulation (Power)   TPM   2.4 mm	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Power)         2,4 mm           Tolerance outer diameter wire insulation (Power)         ±5 %           Ingredient freeness wire insulation (Power)         lead-free, CFC-free, halogen-free, silicone-free           Printing colour wire insulation (Power)         white (isolation black)           Amount wires (Power)         4           Amount strands wire (Power)         84           Diameter of single wires (Power)         0,15 mm           Wire conductor cross section (Power)         1,5 mm²           Material conductor wire (Power)         Stranded copper wire, bare           Conductor type wire (Power)         strand class 6           Max. rated voltage (conductor - conductor)         1000 V           Max. rated voltage (conductor - ground)         600 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire (Power)         12,6 A           Electrical resistance line constant wire         13,7 Ω/km @ 20 °C           Electrical resistance soling wire (Power)         13,7 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         120000 pF/km           Power frequency withstand voltage (wire - shield)         4 kV @ 300 s           Electrical capacity line constant (wire - shield)         4 kV @ 300 s           Isolation resistance	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (Power)  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount wires (Power)  Affective of single wires (Power)  Material conductor cross section (Power)  Material conductor type wire (Power)  Stranded copper wire, bare  Conductor type wire (Power)  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - organd)  Good V  Current load capacity (standard)  Current load capacity min. wire  12,6 A  Electrical resistance line constant wire  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - wire)  Power frequency withstand voltage (wire - shield)  School AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage power (wire - shield)  Fower frequency withstand voltage power (wire - shield)  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage power (wire - shield)  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage (wire - wire)  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage (wire - wire)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage (wire - shield)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage power (wire - shield)  Electrical capacity line constant (wire - shield)  Fower frequency withstand voltage power (wire - shield)  Electrical capacity line constant (wire	Material wire insulation (Power)	TPM
Ingredient freeness wire insulation (Power)   White (isolation black)   Amount wires (Power)   4	Outer diameter wire insulation (Power)	2,4 mm
Printing colour wire insulation (Power)       white (isolation black)         Amount wires (Power)       4         Amount strands wire (Power)       84         Diameter of single wires (Power)       0,15 mm         Wire conductor vire (Power)       1,5 mm²         Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       strand class 6         Max. rated voltage (conductor - conductor)       1000 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)       1,7 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       4 kV @ 300 s         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       4 kV @ 300 s         Isolation resistance       2500 MΩ x km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Isolation resistance       2500 MΩ x km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Power frequency withstand voltage power (wire - shield) <td></td> <td>±5 %</td>		±5 %
Amount wires (Power)  Amount strands wire (Power)  84  Amount strands wire (Power)  Wire conductor cross section (Power)  Naterial conductor wire (Power)  Stranded copper wire, bare  Conductor type wire (Power)  Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  Max. rated voltage (conductor - ground)  Max. rated voltage (conductor - ground)  Current load capacity (standard)  Current load capacity (standard)  Current load capacity min. wire  12.6 A  Electrical resistance line constant wire  13.7 Ω/km @ 20 °C  Electrical resistance coating wire (Power)  13.7 Ω/km @ 20 °C  AC withstand voltage (wire - wire)  4 kV @ 300 s  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Fower I gacacity line constant (wire - shield)	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Amount strands wire (Power) 84  Diameter of single wires (Power) 0,15 mm  Wire conductor cross section (Power) 1,5 mm²  Material conductor wire (Power) Stranded copper wire, bare  Conductor type wire (Power) strand class 6  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) 4 kV @ 300 s  Electrical capacity line constant (wire - wire) 120000 pF/km  Power frequency withstand voltage (wire - shield) 4 kV @ 300 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) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s	Printing colour wire insulation (Power)	white (isolation black)
Diameter of single wires (Power) 0,15 mm  Wire conductor cross section (Power) 1,5 mm²  Material conductor wire (Power) Stranded copper wire, bare  Conductor type wire (Power) strand class 6  Max. rated voltage (conductor - conductor) 1000 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 coating wire (Power) 13,7 Ω/km @ 20 °C  Electrical capacity line constant (wire - wire) 120000 pF/km  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Electrical capacity line constant (wire - shield) 4 kV @ 300 s	Amount wires (Power)	4
Wire conductor cross section (Power)       1,5 mm²         Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       strand class 6         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)       120000 pF/km         Electrical capacity line constant (wire - wire)       120000 pF/km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Solation resistance       2500 MΩ × km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Electrical capacity line constant (wire - shield)       90000 pF/km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Fower frequency withstand voltage power (wire - shield)       4 kV @ 300 s	Amount strands wire (Power)	84
Material conductor wire (Power)       Stranded copper wire, bare         Conductor type wire (Power)       strand class 6         Max. rated voltage (conductor - conductor)       1000 V         Max. rated voltage (conductor - ground)       600 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12,6 A         Current carrying capacity min. wire (Power)       12,6 A         Electrical resistance line constant wire       13,7 Ω/km @ 20 °C         Electrical resistance coating wire (Power)       4 kV @ 300 s         Electrical capacity line constant (wire - wire)       120000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       4 kV @ 300 s         solation resistance       2500 MΩ x km         Electrical capacity line constant (wire - shield)       160000 pF/km         Electrical capacity line constant (wire - shield)       90000 pF/km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Solation resistance       2500 MΩ x km         Electrical capacity line constant (wire - shield)       4 kV @ 300 s         Conductor - shield       4 kV @ 300 s	Diameter of single wires (Power)	0,15 mm
Conductor type wire (Power) strand class 6  Max. rated voltage (conductor - conductor) 1000 V  Max. rated voltage (conductor - ground) 600 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12,6 A  Current carrying capacity min. wire (Power) 12,6 A  Electrical resistance line constant wire 13,7 \( \Omega / \text{km} \equiv 20 \circ C \)  Electrical resistance coating wire (Power) 13,7 \( \Omega / \text{km} \equiv 20 \circ C \)  AC withstand voltage (wire - wire) 4 kV \( \omega \) 300 s  Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage (wire - shield) 4 kV \( \omega \) 300 s  Electrical capacity line constant (wire - shield) 4 kV \( \omega \) 300 s  Isolation resistance 2500 M\( \Omega \) km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 4 kV \( \omega \) 300 s  Isolation resistance 2500 M\( \Omega \) km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 4 kV \( \omega \) 300 s  Electrical capacity line constant (wire - shield) 4 kV \( \omega \) 300 s  Flectrical capacity line constant (wire - shield) 4 kV \( \omega \) 300 s	Wire conductor cross section (Power)	1,5 mm <sup>2</sup>
Max. rated voltage (conductor - conductor)       1000 V         Max. rated voltage (conductor - ground)       600 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12,6 A         Current carrying capacity min. wire (Power)       12,6 A         Electrical resistance line constant wire       13,7 Ω/km @ 20 °C         Electrical resistance coating wire (Power)       13,7 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       4 kV @ 300 s         Electrical capacity line constant (wire - wire)       120000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       4 kV @ 300 s         Isolation resistance       2500 MΩ × km         Electrical capacity line constant (wire - shield)       160000 pF/km         Electrical capacity line constant (wire - wire)       90000 pF/km         AC withstand voltage power (wire - shield)       4 kV @ 300 s         Power frequency withstand voltage power       4 kV @ 300 s	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)       4 kV @ 300 s         Electrical capacity line constant (wire - wire)       120000 pF/km         Electrical capacity line constant (wire - shield)       160000 pF/km         Power frequency withstand voltage (wire - shield)       4 kV @ 300 s         Isolation resistance       2500 MΩ × km         Electrical capacity line constant (wire - shield)       160000 pF/km         Electrical capacity line constant (wire - wire) (power)       160000 pF/km         AC withstand voltage power (wire - shield)       4 kV @ 300 s         Power frequency withstand voltage power (wire - shield)       4 kV @ 300 s	Conductor type wire (Power)	strand class 6
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12,6 A  Current carrying capacity min. wire (Power) 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) 4 kV @ 300 s  Electrical capacity line constant (wire - wire) 120000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage power (wire - shield) 4 kV @ 300 s	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) 4 kV @ 300 s  Electrical capacity line constant (wire - wire) 120000 pF/km  Electrical capacity line constant (wire - shield) 160000 pF/km  Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 160000 pF/km  Electrical capacity line constant (wire - shield) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 160000 pF/km  AC withstand voltage power (wire - shield) 4 kV @ 300 s  Power frequency withstand voltage power 4 kV @ 300 s	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)  4 kV @ 300 s  Electrical capacity line constant (wire - wire)  120000 pF/km  Electrical capacity line constant (wire - shield)  AC withstand voltage (wire - shield)  4 kV @ 300 s  Electrical capacity line constant (wire - shield)  4 kV @ 300 s  Isolation resistance  2500 MΩ × km  Electrical capacity line constant (wire - shield)  160000 pF/km  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - shield)  Electrical capacity line constant (wire - shield)  AC withstand voltage power (wire - shield)  AC withstand voltage power (wire - shield)  A kV @ 300 s  Power frequency withstand voltage power	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)  4 kV @ 300 s  Electrical capacity line constant (wire - wire)  120000 pF/km  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - jacket)  4 kV @ 300 s  AC withstand voltage (wire - shield)  4 kV @ 300 s  Isolation resistance  2500 MΩ × km  Electrical capacity line constant (wire - shield)  (power)  160000 pF/km  Electrical capacity line constant (wire - shield)  160000 pF/km  Electrical capacity line constant (wire - wire) (power)  4 kV @ 300 s  Power frequency withstand voltage power  4 kV @ 300 s	Current load capacity min. wire	12,6 A
Electrical resistance coating wire (Power)  AC withstand voltage (wire - wire)  4 kV @ 300 s  Electrical capacity line constant (wire - wire)  120000 pF/km  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - acceptable)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Isolation resistance  2500 MΩ × km  Electrical capacity line constant (wire - shield)  (power)  160000 pF/km  160000 pF/km  Power frequency withstand (wire - shield)  AC withstand voltage power (wire - shield)  4 kV @ 300 s  160000 pF/km  Power frequency withstand voltage power  Ac withstand voltage power (wire - shield)  AC withstand voltage power (wire - shield)  Ac withstand voltage power (wire - shield)	Current carrying capacity min. wire (Power)	12,6 A
AC withstand voltage (wire - wire)  Electrical capacity line constant (wire - wire)  Electrical capacity line constant (wire - shield)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - shield)  AC withstand voltage (wire - shield)  Electrical capacity line constant (wire - wire)  (power)  Electrical capacity line constant (wire - wire)  (power)  AC withstand voltage power (wire - shield)  AV @ 300 s  Power frequency withstand voltage power  AV @ 300 s	Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
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 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) 4 kV @ 300 s  AC withstand voltage (wire - shield) 4 kV @ 300 s  Isolation resistance 2500 MΩ × km  Electrical capacity line constant (wire - shield) 160000 pF/km  (power) 160000 pF/km  Electrical capacity line constant (wire - wire) (power) 90000 pF/km  AC withstand voltage power (wire - shield) 4 kV @ 300 s  Power frequency withstand voltage power 4 kV @ 300 s	AC withstand voltage (wire - wire)	4 kV @ 300 s
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  4 kV @ 300 s  Isolation resistance  2500 MΩ × km  Electrical capacity line constant (wire - shield) (power)  Electrical capacity line constant (wire - wire) (power)  Electrical capacity line constant (wire - wire) (power)  AC withstand voltage power (wire - shield)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power	Electrical capacity line constant (wire - wire)	120000 pF/km
Jacket)       4 kV @ 300 s         AC withstand voltage (wire - shield)       4 kV @ 300 s         Isolation resistance       2500 MΩ × km         Electrical capacity line constant (wire - shield) (power)       160000 pF/km         Electrical capacity line constant (wire - wire) (power)       90000 pF/km         AC withstand voltage power (wire - shield)       4 kV @ 300 s         Power frequency withstand voltage power       4 kV @ 300 s	Electrical capacity line constant (wire - shield)	160000 pF/km
Isolation resistance   2500 MΩ × km		4 kV @ 300 s
Electrical capacity line constant (wire - shield) (power)  Electrical capacity line constant (wire - wire) (power)  90000 pF/km  4 kV @ 300 s  Power frequency withstand voltage power	AC withstand voltage (wire - shield)	4 kV @ 300 s
(power)  Electrical capacity line constant (wire - wire) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power  A kV @ 300 s	Isolation resistance	2500 MΩ × km
Electrical capacity line constant (wire - wire) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power  4 kV @ 300 s		160000 pF/km
AC withstand voltage power (wire - shield) 4 kV @ 300 s  Power frequency withstand voltage power  4 kV @ 300 s	Electrical capacity line constant (wire - wire)	90000 pF/km
	AC withstand voltage power (wire - shield)	4 kV @ 300 s
		4 kV @ 300 s

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: 2024-05-20



AC withstand voltage power (wire - wire)	4 kV @ 300 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	4 x Outer diameter
Bending radius (dynamic)	7,5 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	50 m @ 25 °C   horizontal
Travel speed (C-track)	5 m/s @ 25 °C
Torsion stress	± 30 °/m