

M23 SERVO CABLE

Specification: 6FX8002-5DS11-1BA0

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

M23, 6-pole

shielded

without cable sleeves

Further cable lengths on request.

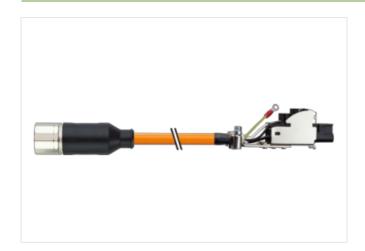
Plastic housings with good resistance against chemicals and oils.

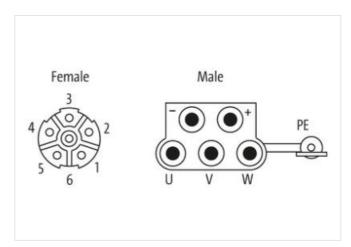
The resistance to aggressive media should be individually tested for your application. Further details on request.

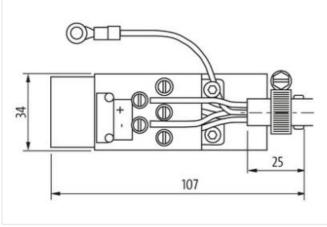
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

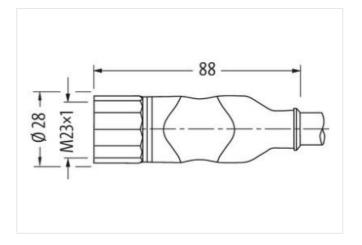
Link to Product

Illustration









Product may differ from Image

Cable length	10 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1



stay connected

suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
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	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060327
ETIM-5.0 customs tariff number	EC001855
	85444290
GTIN	4048879481571
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)	IP20, IP67
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
Installation Cable	
STOOW style jacket	Hybrid, Signal, Power
Cable identification	833
Jacket Color	orange
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires with Filler twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Banding	Fiber tape, Fleece, Foil
Filler	yes
wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
	Sidon, Times, (Vidon Titeo, Die , Sidon O/ET/O/ET, Sidon T/EE, GIGGHTYGHOW)



stay connected

Material jasobet TMPU Freedom from ingredients (jacket) 18 mm Outer dismeter (jacket) 13 mm Trave's peed (C-track) 4 Toerance outer diameter (sheath) 5 % Material wire insulation TPM Amount wires 2 Outer diameter tolerance oric insulation 2,4 mm Outer diameter tolerance oric insulation 1,5 mm Outer diameter wire insulation (prover) 1,5 mm Oriculator type swites 0,15 mm Oriculator type swites 3,1 mm Oriculator type swite insulation (Power) 15 mm² Material wire insulation (Power) 17PM Outer diameter wire insulation (Power) 1,5 mm² Printing colour wire insulation (Power) 1,5 mm² Printing colour wire insulation (Power) 1,5 mm² Printing colour wire insulation (Power) 1,5 mm² Diameter of single wires (Power) 1,5 mm²	Traversing distance (C-track)	50 m @ 25 °C horizontal
Freedom from ingredients (jacket) Samm	Cable weigth	311,3 g/m
Outer diameter (jacker) 13 mm Travel speed (C-track) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Material jacket	TMPU
Toversispeed (C-track)	Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)	Outer-diameter (jacket)	13 mm
Meterial wire insulation TPM	Travel speed (C-track)	4
Amount wires 2 Outer diameter insulation 2,4 mm Outer diameter forebrance core insulation 2,5 % Ingredient feeness wire insulation 84 Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, barre Conductor type (wire) strand class 8 Material wire insulation (Power) 7,1 mm Outer diameter wire insulation (Power) 1,1 mm Tolerance outer diameter wire insulation (Power) 1,5 mm Printing colour wire insulation (Power) 1,5 % Printing colour wire insulation (Power) white (solation black) Amount strands (inc. (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Wire conductor wire (Power) stranded copper wire, bare Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Current load capacity (strandard) to In IVDE 0288 4 Current load capacity (strandard) to IN IVDE 0288 4 <td< td=""><td>Tolerance outer diameter (sheath)</td><td>±5%</td></td<>	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 2,4 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation led 5 % Ingredient freeness wire insulation 84 Diameter of single wires 0.15 mm Conductor or Seasection (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) \$1.5 mm² Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3.1 mm Tolerance outer diameter wire insulation (Power) \$5 % (Power) [lead-free, CFC-free, halogen-free, silicone-free Ingredient freeness wire insulation (Power) \$5 % Printing colour wire insulation (Power) \$140 Diameter of single wires (Power) 140 Diameter of single wires (Power) \$2.5 mm² Material conductor wire (Power) \$1.5 mm Material conductor wire (Power) \$1.0 mm Max. rated voltage (conductor - conductor) \$0.0 V Current load capacity (intamater) \$1.0 km @20 °C Electrical resistance line constant vire \$1.7 Okm @20 °C	Material wire insulation	TPM
Outer diameter tolerance core insulation Ingredient freeness wire insulation tead free, CPC-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 doss 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) 45 % Printing obour wire insulation (Power) 440 Printing obour wire insulation (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor (Power) 2,5 mm² Macerial conductor wire (Power) 3,5 mm² Max. rated voltage (conductor - ground) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity standard) 10 DIN VIDE 0298-4 Current load capacity (standard) 10 DIN VIDE 0298-4 Fleictrical resistance losing (wire - wire) 4 kV @ 300 s Power frequency w	Amount wires	2
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 (wive) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 45% (Power) 1 lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 140 Diameter of single wires (Power) 2,5 mm² Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) 4000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor or wire (Power) 51,7 D/km @2 n°C Current load capacity (standard) 1000 V Max. rated voltage (conductor or wire) 4 kW @ 300 s Electrical resistance coating wire (Power) 4 kW @ 300 s AC withstand voltage (wire - shield) 4 kW @ 300 s Min. operating temperature (static) 30 °C Operating temperature max. (dynamic) 50 °C Ram resistance Good, application-related testing 1 DIN EN 60811-404 Bending radius (flyamic) 7,5 x Outer diameter Travel speed (C+rack) 10 Min. @2 5°C	Outer diameter insulation	2,4 mm
Amount strands (wire) 84 Diameter of single wires 0,15 mm Atterial conductor vice Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) 17M Material wire insulation (Power) 17M Outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 45 % Ingredient freeness wire insulation (Power) 84 % Ingredient freeness wire insulation (Power) 9,15 mm Material wire insulation (Power) 140 Diameter of single wires (Power) 140 Diameter of single wires (Power) 1,10 mm Wire conductor cross section (Power) 2,5 mm Material conductor wire (Power) 1,5 mm Wire conductor vires (Power) 1,5 mm Wire conductor vires (Power) 1,5 mm Wire conductor cross section (Power) 1,5 mm Wire conductor vires (Power) 1,5 mm	Outer diameter tolerance core insulation	±5%
Diameter of single wires 0,15 mm 1,5 mm² Stranded copper wire, bare Conductor type (wire) strand class 6 Stranded copper wire, bare Conductor type (wire) strand class 6 Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor diameter wire insulation (Power) 3,1 mm College (wire conductor wire insulation (Power) Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Had Lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Lead-free, CFC-free, halogen-free, silicone-free Printing colour-free Printing	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) 3.1 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) 140 Diameter of single wires (Power) 0.15 mm Wire conductor wire (Power) \$1 mm Material conductor wire (Power) \$2.5 mm² Material conductor wire (Power) \$1 mm Max. rated voltage (conductor - conductor) \$1 mm Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity (standard) 12,6 A Electrical resistance line constant wire 13,7 Okm @ 20°C Electrical resistance scaling wire (Power) 8 Okm @ 20°C AC withstand voltage (wire - shield) 4 kV @ 300 s Max. ope	Amount strands (wire)	84
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (solation black) Armount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - orgound) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance coating wire (Power) 8 Qikm @20 °C Electrical resistance coating wire (Power) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AG withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) <	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3.1 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor vire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V 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 line constant wire 13,7 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Max. operating temperature (static)	Conductor crosssection (wire)	1,5 mm²
Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3.1 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) kead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 140 Diameter of single wires (Power) 0.15 mm Wire conductor cross section (Power) 2,5 mm² Wire conductor type wire (Power) Stranded copper wire, bare Gonductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance coating wire (Power) 8 N/km @20 °C AC withstand voltage (wire - wire) 4 kW @ 300 s Power frequency withstand voltage (wire - shield) 4 kW @ 300 s Min. operating temperature (static) 30 °C Max. operating temperature (min. (dynamic)	Material conductor wire	Stranded copper wire, bare
Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3.1 mm Tolerance outer diameter wire insulation (Power) ±5 % Ingredient freeness wire insulation (Power) kead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 140 Diameter of single wires (Power) 0.15 mm Wire conductor cross section (Power) 2,5 mm² Wire conductor type wire (Power) Stranded copper wire, bare Gonductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance coating wire (Power) 8 N/km @20 °C AC withstand voltage (wire - wire) 4 kW @ 300 s Power frequency withstand voltage (wire - shield) 4 kW @ 300 s Min. operating temperature (static) 30 °C Max. operating temperature (min. (dynamic)	Conductor type (wire)	
Tolerance outer diameter wire insulation (Power) Ingredient freeness wire insulation (Power) Printing colour wire insulation (Power) Amount strands wire (Power) Idu Diameter of single wires (Power) Mitre conductor cross section (Power) Mitre conductor vires (Power) Vire conductor vire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Courrent load capacity (standard) Current load capacity (standard) Current load capacity min. wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) Ac Withstand voltage (wire - wire) A kV @ 300 s Power frequency withstand voltage (wire - shield) Ac Withstand voltage (wire - shield) At V @ 300 s AC withstand voltage (wire - shield) At V @ 300 s AC withstand voltage (wire - shield) At V @ 300 s AC withstand voltage (wire - shield) At V @ 300 s Coperating temperature (static) 30 °C Operating temperature (static) 30 °C Operating temperature max. (dynamic) Good, application-related testing Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Fending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Material wire insulation (Power)	TPM
Power 15 % lead-free, CFC-free, halogen-free, silicone-free	Outer diameter wire insulation (Power)	3,1 mm
Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm² Wire conductor cross section (Power) Stranded copper wire, bare Manual Strands 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 wire wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance wire (Power) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - wire) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Max. operating temperature (static) -30 °C Operating temperature (static) -30 °C Operating temperature min. (dynamic) 30 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testi	Tolerance outer diameter wire insulation (Power)	±5 %
Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance locating wire (Power) 8 C/km @20 °C Electrical resistance to stant wire 4 kV @ 300 s Power frequency withstand voltage (wire - wire) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Flame resistance DUL 1581 § 1090 [UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing IN En 60811-404 Bending radius (fixed) 4 x Outer diameter Travel speed (C-track) 10 Min. @ 25 °C	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Diameter of single wires (Power) 0,15 mm Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance voating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (sixed) 30 °C Operating temperature (sixed) 80 °C Operating temperature min. (dynamic) 30 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer dia	Printing colour wire insulation (Power)	white (isolation black)
Wire conductor cross section (Power) 2,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Max. operating temperature (static) -30 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) -30 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 × Outer diameter Bending radius (fixed) 7,5 × Outer diameter Travel speed (C-track) 10	Amount strands wire (Power)	140
Material conductor wire (Power) stranded copper wire, bare Conductor type wire (Power) strand class 6 Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 12,6 A Electrical resistance line constant wire 13,7 \(\Omega / \text{km} \) @ 20 °C Electrical resistance coating wire (Power) 8 \(\Omega / \text{km} \) @ 20 °C Electrical resistance coating wire (Power) 4 kV @ 300 s Power frequency withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) -30 °C Operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 4 \(\text{ Outer diameter} \) Travel speed (C-track) 10 Mio. @ 25 °C	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 Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Plame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Wire conductor cross section (Power)	2,5 mm²
Max. rated voltage (conductor - conductor) 1000 V Max. rated voltage (conductor - ground) 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	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 Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Conductor type wire (Power)	strand class 6
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 Ω/km @ 20 °C Electrical resistance coating wire (Power) 8 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Max. rated voltage (conductor - conductor)	1000 V
Current load capacity min. wire 12,6 A Electrical resistance line constant wire 13,7 \(\textit{ D/km} \) \(\textit{ Q20 °C} \) Electrical resistance coating wire (Power) 8 \(\textit{ D/km} \) \(\textit{ Q300 s} \) AC withstand voltage (wire - wire) 4 kV \(\textit{ Q300 s} \) Power frequency withstand voltage (wire - shield) 4 kV \(\textit{ Q300 s} \) AC withstand voltage (wire - shield) 4 kV \(\textit{ Q300 s} \) 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 \(\frac{1}{3} \) 1090 UL 1581 \(\frac{1}{3} \) 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Fravel speed (C-track) 10 Mio. \(\textit{ Q25 °C} \)	Max. rated voltage (conductor - ground)	600 V
Electrical resistance line constant wire 13,7 \(\Omega \) \(\omega \) \(\constant \) \(\omega \) \(\omeg	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance coating wire (Power) 8 Δ/km @20 °C AC withstand voltage (wire - wire) 4 kV @ 300 s Power frequency withstand voltage (wire - jacket) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Current load capacity min. wire	12,6 A
AC withstand voltage (wire - wire) A kV @ 300 s Power frequency withstand voltage (wire - shield) AC withstand voltage (wire - shield) A kV @ 300 s Min. operating temperature (static) AC withstand voltage (wire - shield) A kV @ 300 s Min. operating temperature (fixed) Bo °C Operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Bo °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Power frequency withstand voltage (wire - shield) 4 kV @ 300 s AC withstand voltage (wire - shield) 4 kV @ 300 s Min. operating temperature (static) -30 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Electrical resistance coating wire (Power)	8 Ω/km @20 °C
AC withstand voltage (wire - shield) AC withstand voltage (wire - shield) AL W @ 300 s Min. operating temperature (static) AS °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) BO °C Operating temperature max. (dynamic) UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	AC withstand voltage (wire - wire)	4 kV @ 300 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (dynamic	Power frequency withstand voltage (wire - jacket)	4 kV @ 300 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Su °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	AC withstand voltage (wire - shield)	4 kV @ 300 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) So °C Operating temperature max. (dynamic) So °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic) 80 °C Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Operating temperature min. (dynamic)	-30 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Operating temperature max. (dynamic)	80 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Flame resistance	UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	chemical resistance	Good, application-related testing
Bending radius (fixed) 4 x Outer diameter Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 7,5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C	Oil resistance	Good, application-related testing DIN EN 60811-404
Travel speed (C-track) 10 Mio. @ 25 °C	Bending radius (fixed)	4 x Outer diameter
	Bending radius (dynamic)	7,5 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	Torsion stress	± 30 °/m