

## M23 servo cable

specification: 6FX5002-5DA05-1AF5

Art.No.: 7000-PS101-8610550

Weight: 1.313 Country of origin: DE

Model designation: M6FX5002-5DA05-1AF5

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.

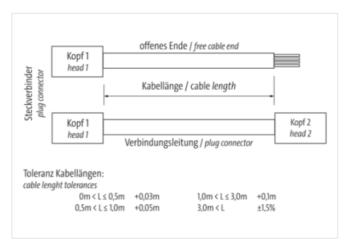
The resistance to aggressive media should be individually tested for your application. Further details on request.

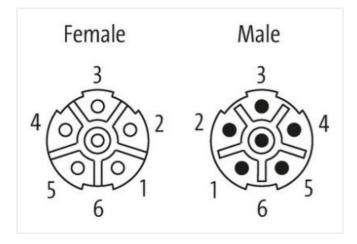
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

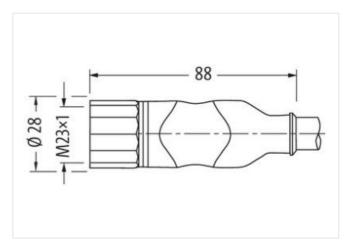
## **Link to Product**

## Illustration

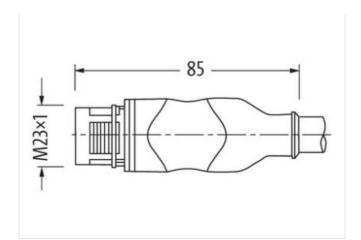












Product may differ from Image

Cable length	5,5 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1
suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
Side 2	
Family construction form	M23
suitable for corrugated tube (internal Ø)	23 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC000830
customs tariff number	85444290
EAN	4048879689236
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)	I
Mechanical data   Material data	

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: 2025-10-05



stay connected

Brass   Bras	Material housing	PUR
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Departing temperature min.	Coating locking	nickel plated
Revision mental characteristics   Climate	Locking material	Brass
Environmental characteristics   Climatic Diparating temperature min 25 °C  Additional condition temperature range depending on cable quality Important installation notes  Wood on strain rinstallation notes  Wood on strain rinstallation notes  Note on sharin rinstallation notes  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endurgered by encesive sensing forces.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endurgered by encesive sensing forces.  Installation   Cable  Wire arrangement black, white, (black WIL3;DL-, black UL1,17cL+, black VIL2, green-yellow)  Zable identification  861  Function cable  Hybrid, Signal, Power  John of Carlos  Attention of Carlos  Hybrid, Signal, Power  John of Carlos  Annount stranding  1   Stranding   1    Stranding (type 2)  1   Stranding (type 2)  1   Stranding (type 2)  2 wires with Filler trivitated  Minount stranding (type 2)  2 wires with Filler around Stranding combination twisted  Zable sheliding (type 2)  2 wires with Filler around Stranding combination twisted  Zable sheliding (type 2)  2 wires with Filler around Stranding combination twisted  Zable sheliding (type 2)  2 wires with Filler around Stranding combination twisted  Zable sheliding (type 2)  2 wires with Filler shell with the shell of the shell with the shell of the shell with t	Mechanical data   Mounting data	
Departing temperature min25 °C Departing temperature max. 85 °C  deforming interportant max. 85 °C  departing temperature may. 85 °C  deforming interportant installation notes  Woldo on sharin relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.  Attention: Coserve the permissible bending radii when laying cables, as the IP protection class can be interestated by excessive bending radii when laying cables, as the IP protection class can be interestated by excessive bending radii when laying cables, as the IP protection class can be interestated by excessive bending radii when laying cables, as the IP protection class can be interestated by the control of the interestated by the interestated by the control of the interestated by the intere	Mounting method	inserted, screwed, Shaking protection
Departing temperature max.   85 °C   Commonstrate range   depending on cable quality   Commonstrate range   depending on cable quality   Commonstrate range   Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable lies.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bendin	Environmental characteristics   Climatic	
Departing temperature max.   85 °C   Commonstrate range   depending on cable quality   Commonstrate range   depending on cable quality   Commonstrate range   Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable lies.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bending forces.   Protection class can be endangered by excessive bendin	·	-25 °C
Important installation notes	· · · · · · · · · · · · · · · · · · ·	
Note on strain related  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending fradii when laying cables, as the IP protection class can be endangered by excessive bending fradii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable    View arrangement   black, white, (black WIL3/OL_, black U/L1/CL+, black V/L2, green-yellow)  Sales identification   861    Function cable   Hybrid, Signal, Power    Jacket Color   orange    Type of Certificate   cURus    Transmitter stranding   1    Stranding (type 2)   1    Stranding (type 2)   4    Avires with Filler traviated Stranding combination twisted    Attending (type 2)   4    Avires with Filler around Stranding combination twisted    Stranding (type 2)   cooper braid, finned    Sales shielding (coverage)   85 %    Pairs shelding (type)   cooper braid, finned    Pairs with the stranding   yes    Attending (type 2)   cooper braid, finned    Pairs with a stranding   yes    Attending (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs with a stranding (type 2)   cooper braid, finned    Pairs		
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  wire arrangement		
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)    Sable identification   861    Turnotion cable   Hybrid, Signal, Power    Lacket Color   Orange    Type of Certificate   CURus    Amount stranding   1    Stranding   2 wires with Filler twisted    Amount stranding (type 2)   4 wires with Filler troubled    Stranding (type 2)   4 wires with Filler around Stranding combination twisted    Sable shielding (type)   copper braid, finned    Sable shielding (type)   copper braid, finned    Sarding   Filber tape, Fleece, Foil    Filler   yes    Wire arrangement   black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)    Sable with filler   yes    Wire arrangement   black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)    Sable wight   203,5 g/m    Material jucket   PVC    Freedom from ingredients (jacket)   lead-free, CFC-free, silicone-free    Duter-claimater (jacket)   1,4 mm    Duter diameter (jacket)   24 mm    Duter diameter (sheath)   2.5 mm    Duter diameter robersone core insulation   2.4 mm    Duter diameter insulation   2.4 mm    Duter diameter insulation   2.4 mm    Duter diameter tolerance core insulation   2.4 mm    Duter diameter insulation   2.4 mm    Duter diameter insulation   2.4 mm    Duter diameter tolerance core insulation   2.4 mm    Duter diameter tolerance core insulation   2.4 mm    Duter diameter of single wires   30    Dameter of single wires   31    Dameter of single wires   32    Dameter of single wires   34    Amount strands   4    White (isolation black)    White (isolation blac		District the connectors by suitable messures from mechanical leads on a by the upage of cable ties
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)  Zable identification   861  **Installation   2	Note on strain relief	
wire arrangement         black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)           Zable identification         861           Enuction cable         Hybrid, Signal, Power           Uncertion cable         Hybrid, Signal, Power           Uncertion cable         CURUS           Amount stranding         1           Stranding (type 2)         1           Stranding (type 2)         4           Amount stranding (type)         copper braid, tinned           Sable shelding (type)         copper braid, tinned           Sable shelding (type)         copper braid, tinned           Part shelding (type)         black, white, (black WL3/D/L-, black W/L1/C/L+, black V/L2, green-yellow)           Part shelding (type)	Note on bending radius	
Cable identification         861           Function cable         Hybrid, Signal, Power           Lacket Color         cyrange           Type of Certificate         cURJus           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           Sable 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)           Zable weight         203.5 g/m           Material jacket         PVC           Freedom from ingredients (jacket)         lead-free, CFC-free, silicone-free           Duter diameter (jacket)         lead-free, CFC-free, silicone-free           Material wire insulation         TPM           Amount wires         2           2 Juter diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free	Installation   Cable	
Cable identification         861           Function cable         Hybrid, Signal, Power           Lacket Color         cyrange           Type of Certificate         cURJus           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           Sable 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)           Zable weight         203.5 g/m           Material jacket         PVC           Freedom from ingredients (jacket)         lead-free, CFC-free, silicone-free           Duter diameter (jacket)         lead-free, CFC-free, silicone-free           Material wire insulation         TPM           Amount wires         2           2 Juter diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, silicone-free	wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Jacket Color orange Type of Certificate CURus Amount stranding 1 Stranding 2 wires with Filler twisted Amount stranding (type 2) 1 Stranding (type 2) 1 Stranding (type 2) 4 wires with Filler around Stranding combination twisted Zable shielding (type) copper braid, tinned Zable shielding (type) copper braid, tinned Zable shielding (coverage) 85 % Pair shielding (type) copper braid, tinned Zable weight yes Zable weight 2015, 5 g/m Zable weight 2015, 5 g/m Zable weight 2015, 5 g/m Zable weight 2015, 6 g/m Zable weight	Cable identification	
URus Amount stranding 1 Stranding (type 2) 1 Stranding (type 2) 4 wires with Filler twisted Amount stranding (type 2) 5 4 wires with Filler around Stranding combination twisted Amount stranding (type 2) 5 5 4 wires with Filler around Stranding combination twisted  Amount stranding (type 2) 5 5 6 Sable shielding (type) 5 6 copper braid, tinned  Bandring 6 Fiber tape, Fieece, Foil Filler 7 yes  Bandring 7 Fiber tape, Fieece, Foil Filler 8 yes  Bandring 8 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 9 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Fieece, Foil Filler 9 yes  Bandring 1 Fiber tape, Filler 9 yes  Bandring 1 Fiber tape, Filere, Filler 1 Fiber tape, Filere, Filler 1 Fiber tape, Filler	Function cable	Hybrid, Signal, Power
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 % Cable shielding (coverage) 85 % Carlier shielding (type) copper braid, tinned Carlier shielding (type) copper shielding (type)	Jacket Color	orange
Stranding 2 wires with Filler twisted  Amount stranding (type 2) 1  Stranding (type 2) 4 wires with Filler around Stranding combination twisted  Standing (type) copper braid, tinned  Standing (type) copper braid, tinned  Standing (type) copper braid, tinned  Standing Fiber tape, Fieece, Foil  Filler yes  wire arrangement black, white, (black Wt.3/DrL-, black U/L1/C/L+, black V/L2, green-yellow)  Stable weight 203,5 g/m  Material jacket PVC  Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free  Duter-diameter (jacket) 10,4 mm  Floberance outer diameter (sheath) ± 5 %  Material wire insulation TPM  Amount wires 2  Duter diameter folerance core insulation ± 5 %  Diameter of single wires (Power) 2,4 mm  Conductor crosssection (wire) Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor timester insulation (Power) 4  Amount wirands (Power) 4  Amount wirands wire (Power) 30  Diameter of single wires insulation (Power) 4  Amount wirands wire (Power) 30  Diameter of single wires insulation (Power) 4  Amount wirands wire (Power) 0,25 mm  Diameter of single wires (Power) 30  Diameter of single wires (Power) 4  Amount wirands wire (Power) 30  Diameter of single wires (Power) 4  Amount strands wire (Power) 0,25 mm	Type of Certificate	cURus
Amount stranding (type 2)  A wires with Filler around Stranding combination twisted Cable shielding (type)  Cable shielding (type)  Cable shielding (type)  B	Amount stranding	1
Stranding (type 2) 4 wires with Filler around Stranding combination twisted  2able shielding (type) copper braid, tinned  3anding Fiber tape, Fleece, Foil  3anding Fiber tape, Fleece, Foil  3anding Fiber tape, Fleece, Foil  3anding Standing Coverage)  3anding Fiber tape, Fleece, Foil  3anding Fiber tape, Fleece, Foil  3anding Standing Coverage  3anding Standing Standing Coverage  3anding Fiber tape, Fleece, Foil  3anding Standing Coverage  3anding Standing Coverage  3anding Standing Coverage  3anding Fiber tape, Fleece, Foil  3anding Standing Coverage  3anding Coverage  3anding Standing Coverage  3anding Coverage  3a	Stranding	2 wires with Filler twisted
Cable shielding (type)         copper braid, finned           2able shielding (coverage)         85 %           Pair shielding (type)         copper braid, finned           3anding         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)           2able weigth         203.5 g/m           Material jacket         PVC           Pouter-diameter (jacket)         lead-free, CFC-free, silicone-free           Duter-diameter (jacket)         10.4 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         TPM           Amount wires         2           Duter diameter insulation         ± 5 %           ngredient freeness wire insulation         ± 5 %           ngredient freeness wire insulation         ± 6 mm           Duter diameter volerance core insulation         ± 5 %           ngredient freeness wire insulation         ± 5 mm           Outcut of single wires         0,25 mm           Onductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Outcut of impeter wire insulation (Power)         2,4 mm           Tolerance o	Amount stranding (type 2)	1
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)           Cable weigth         203,5 g/m           Material jacket         PVC           Freedom from ingredients (jacket)         lead-free, CFC-free, silicone-free           Duter-diameter (jacket)         10,4 mm           Folerance outer diameter (sheath)         ± 5 %           Material wire insulation         TPM           Amount wires         2           Duter diameter insulation         ± 5 %           Mare diameter insulation         ± 5 %           Ingredient freeness wire insulation         1 ± 5 %           Ingredient freeness wire insulation           lead-free, CFC-free, silicone-free           Amount strands (wire)         30           Diameter of single wires         0,25 mm           Onductor 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	Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Pair shielding (type)  andring 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)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  about wire insulation  Tolerance outer diameter signature about wire insulation about wire insulation (Power)  about wire insulation  about wire insulation  about wire insulation  about wire insulation  about wire	Cable shielding (type)	copper braid, tinned
Fiber tape, Fleece, Foil yes wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow) Cable weigth 203,5 g/m Material jacket PVC Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free Duter-diameter (jacket) 10,4 mm Folerance outer diameter (sheath) ± 5 % Material wire insulation TPM Amount wires 2 Duter diameter insulation 2,4 mm Duter diameter tolerance core insulation 1 ± 5 % Amount strands (wire) 30 Diameter of single wires Donductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Duter diameter wire insulation (Power) Foreignedient freeness wire insulation 2,4 mm Colerance outer diameter wire insulation 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire insulation (Power) 4,4 mm Colerance outer diameter wire insulation (Power) Viniting colour wire insulation (Power) White (isolation black) Amount wires (Power) 4 Amount strands wire (Power) 0,25 mm	Cable shielding (coverage)	85 %
wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  Zable weigth 203,5 g/m  Material jacket PVC  Teedom from ingredients (jacket) lead-free, CFC-free, silicone-free  Duter-diameter (jacket) 10,4 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation TPM  Amount wires 2  Duter diameter tolerance core insulation ± 5 %  Ingredient freeness wire insulation   2,4 mm  Diameter of single wires   30  Diameter of single wires   0,25 mm  Joanductor orosssection (wire)   1,5 mm²  Material conductor wire   Stranded copper wire, bare    Conductor type (wire)   Strand class 5  Duter diameter wire insulation   2,4 mm  Tolerance outer diameter wire insulation   2,5 %  Ingredient freeness wire insulation   2,4 mm  Tolerance outer diameter wire insulation   2,5 %  Tolerance outer	Pair shielding (type)	copper braid, tinned
black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)  Cable weigth 203,5 g/m  Material jacket PVC  Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free  Duter-diameter (jacket) 10,4 mm  Folerance outer diameter (sheath) ± 5 %  Material wire insulation TPM  Amount wires 2  Duter diameter insulation 2,4 mm  Duter diameter tolerance core insulation ± 5 %  Ingredient freeness wire insulation lead-free, CFC-free, silicone-free  Amount strands (wire) 30  Diameter of single wires 0,25 mm  Conductor crosssection (wire) 1,5 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) strands (alass 5  Duter diameter wire insulation (Power) 2,4 mm  Folerance outer diameter wire insulation (Power) 2,4 mm  Folerance outer diameter wire insulation (Power) 4  Amount strands wire (Power) 4  Amount strands wire (Power) 4  Amount strands wire (Power) 30  Diameter of single wires (Power) 0,25 mm	Banding	Fiber tape, Fleece, Foil
Cable weigth 203,5 g/m  Material jacket PVC  Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free  Duter-diameter (jacket) 10,4 mm  Folerance outer diameter (sheath) ± 5 %  Material wire insulation TPM  Amount wires 2  Duter diameter insulation 2,4 mm  Duter diameter tolerance core insulation ± 5 %  Ingredient freeness wire insulation lead-free, CFC-free, silicone-free  Amount strands (wire) 30  Diameter of single wires 0,25 mm  Conductor crosssection (wire) 1,5 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Duter diameter wire insulation (Power) 2,4 mm  Folerance outer diameter wire insulation power) 4  Amount strands wire insulation (Power) white (isolation black)  Amount strands wire (Power) 4  Amount strands wire (Power) 30  Diameter of single wires (Power) 0,25 mm	Filler	yes
Material jacket PVC Freedom from ingredients (jacket) lead-free, CFC-free, silicone-free  Duter-diameter (jacket) 10,4 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation TPM  Amount wires 2  Duter diameter insulation 2,4 mm  Duter diameter tolerance core insulation 1 ± 5 %  Ingredient freeness wire insulation 1 lead-free, CFC-free, silicone-free 1 single wires 1 lead-free, CFC-free, silicone-free 2 lead-free, CFC-free, Silicone-free 3 lead-free, CFC-free, Silicone-free	wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Freedom from ingredients (jacket)  Duter-diameter (jacket)  10,4 mm  Folerance outer diameter (sheath)  45 %  Material wire insulation  TPM  Amount wires  2  Duter diameter insulation  2,4 mm  Duter diameter tolerance core insulation  Ead-free, CFC-free, silicone-free  Amount strands (wire)  30  Diameter of single wires  Conductor vire  Conductor type (wire)  Conductor type (wire)  Stranded copper wire, bare  Conductor type (wire)  Conductor type (wire)  Conductor wire insulation  Folerance outer diameter wire insulation  Power)  Ingredient freeness wire insulation (Power)  ### Diameter of single wires wire insulation (Power)  ### Diameter of single wire (Power)  ### Diameter of single wires (Power)  ### Diameter of single	Cable weigth	203,5 g/m
Duter-diameter (jacket)  10,4 mm  Folerance outer diameter (sheath)  4 5 %  Material wire insulation  TPM  Amount wires  2  Duter diameter insulation  2,4 mm  Duter diameter tolerance core insulation  2,4 mm  Duter diameter tolerance core insulation  2,4 mm  Duter diameter tolerance core insulation  2,5 %  Ingredient freeness wire insulation  Powerl of single wires  0,25 mm  Donductor crosssection (wire)  30  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Conductor type (wire)  Strand class 5  Duter diameter wire insulation (Power)  Afficial conducter wire insulation (Power)  1,5 mm  Folerance outer diameter wire insulation (Power)  Ingredient freeness wire insulation (Power)  white (isolation black)  Amount wires (Power)  4  Amount strands wire (Power)  30  Diameter of single wires (Power)  0,25 mm	Material jacket	PVC
Folerance outer diameter (sheath) ± 5 % Material wire insulation TPM Amount wires 2 Duter diameter insulation 2,4 mm Duter diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0,25 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Duter diameter wire insulation (Power) 2,4 mm Folerance outer diameter wire insulation (Power) 15 % Ingredient freeness wire insulation (Power) 4 Amount strands wire (Power) 4 Amount strands wire (Power) 30 Diameter of single wires (Power) 0,25 mm	Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Material wire insulation TPM Amount wires 2 Duter diameter insulation 2,4 mm Duter diameter tolerance core insulation ±5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0,25 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Duter 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) 0,25 mm Diameter of single wires (Power) 0,25 mm	Outer-diameter (jacket)	10,4 mm
Amount wires 2 Duter diameter insulation 2,4 mm Duter diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0,25 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Duter diameter wire insulation (Power) 2,4 mm Forenace outer diameter wire insulation Power) 1 ead-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	Tolerance outer diameter (sheath)	±5%
Duter diameter insulation 2,4 mm  Duter diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free  Amount strands (wire) 30 Diameter of single wires 0,25 mm  Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5 Duter diameter wire insulation (Power) 2,4 mm  Folerance outer diameter wire insulation Power) 1 lead-free, CFC-free, silicone-free  Printing colour wire insulation (Power) 4 Amount wires (Power) 30 Diameter of single wires (Power) 0,25 mm	Material wire insulation	TPM
Duter diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free, silicone-free Amount strands (wire) 30 Diameter of single wires 0,25 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Duter 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) 0,25 mm	Amount wires	2
Amount strands (wire) 30 Diameter of single wires 0,25 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Duter diameter wire insulation (Power) 2,4 mm Tolerance outer diameter wire insulation Power) lead-free, CFC-free, silicone-free Printing colour wire insulation (Power) 4 Amount wires (Power) 4 Amount strands wire (Power) 0,25 mm Diameter of single wires (Power) 0,25 mm	Outer diameter insulation	2,4 mm
Amount strands (wire) 30  Diameter of single wires 0,25 mm  Conductor crosssection (wire) 1,5 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  Duter diameter wire insulation (Power) 2,4 mm  Folerance 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	Outer diameter tolerance core insulation	
Diameter of single wires  O,25 mm  Conductor crosssection (wire)  1,5 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Duter diameter wire insulation (Power)  Power)  15 %  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  0,25 mm	Ingredient freeness wire insulation	
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Outer diameter wire insulation (Power)  Power)  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  Outer diameter wire insulation (Power)  ### Amount strands wire (Power)  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire insulation (Power)  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire insulation (Power)  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire, bare  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire insulation  ### Amount strands wire (Power)  Outer diameter wire	<u> </u>	
Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Duter diameter wire insulation (Power)  Colerance outer diameter wire insulation Power)  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  O,25 mm	<u> </u>	
Conductor type (wire)  Strand class 5  Outer diameter wire insulation (Power)  Colerance outer diameter wire insulation Power)  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Olameter of single wires (Power)  Olameter of single wires (Power)  Strand class 5  2,4 mm  15 %  Amount strands wire insulation (Power)  White (isolation black)  4  Amount strands wire (Power)  Olameter of single wires (Power)  Olameter of single wires (Power)  Olameter of single wires (Power)	· · ·	
Duter diameter wire insulation (Power)  Colterance outer diameter wire insulation Power)  15 %  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  0,25 mm		
Folerance outer diameter wire insulation Power)  Ingredient freeness wire insulation (Power)  Ingredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  30  0,25 mm	<u> </u>	
Power)  rigredient freeness wire insulation (Power)  Printing colour wire insulation (Power)  Amount wires (Power)  Amount strands wire (Power)  Diameter of single wires (Power)  \$\frac{15\%}{25\%}\$  lead-free, CFC-free, silicone-free  white (isolation black)  4  Amount strands wire (Power)  30  0,25 mm	<u> </u>	2,4 mm
Printing colour wire insulation (Power) white (isolation black)  Amount wires (Power) 4  Amount strands wire (Power) 30  Diameter of single wires (Power) 0,25 mm	Tolerance outer diameter wire insulation (Power)	±5 %
Amount wires (Power) 4 Amount strands wire (Power) 30 Diameter of single wires (Power) 0,25 mm	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, silicone-free
Amount strands wire (Power) 30 Diameter of single wires (Power) 0,25 mm	Printing colour wire insulation (Power)	white (isolation black)
Diameter of single wires (Power) 0,25 mm	Amount wires (Power)	4
o carried	Amount strands wire (Power)	30
Nire conductor cross section (Power) 1.5 mm <sup>2</sup>	Diameter of single wires (Power)	0,25 mm
	Wire conductor cross section (Power)	1.5 mm <sup>2</sup>

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: 2025-10-05



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
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) (power)	150000 pF/km
AC withstand voltage power (wire - shield)	4 kV @ 60 s
Power frequency withstand voltage power (wire - jacket)	4 kV @ 60 s
AC withstand voltage power (wire - wire)	4 kV @ 60 s
Min. operating temperature (static)	-25 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 ℃
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