

SUPER-PAAR-TRONIC-C-PUR® cable for drag chains,

halogen-free, EMC-preferred type, meter marking



Technical data

- Special drag chain cable, twisted in pairs, adapted to DIN VDE 0812
- **Temperature range**
flexing -30°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage** 350 V
- **Test voltage** 1500 V
- **Insulation resistance**
min. 100 MOhm x km
- **Mutual capacitance**
approx. 135 nF/km
- **Minimum bending radius**
flexing at 0,25 mm²
7,5 x cable Ø
fixed installation at 0,25 mm²
4 x cable Ø
flexing at 0,5 - 1 mm²
10 x cable Ø
fixed installation at 0,5 - 1 mm²
5 x cable Ø
- **Coupling resistance**
max. 250 Ohm/km
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper conductors, extra fine wire stranded to DIN VDE 0295 cl.6, col. 4, BS 6360 cl.6 and IEC 60228 cl.6
- Core insulation of PP
- Core identification to DIN 47100
- Cores twisted in pairs, the pairs torsion-free stranded in layers
- Special fleece over outer layer
- Tinned copper screened braiding, approx. 85% coverage
- Outer sheath of **full-polyurethane** compound type TMPU to DIN VDE 0207-363-10-2/ DN EN 50363-10-2
- Sheath colour grey (RAL 7001)
- with meter marking

Properties

- Very good oil resistant
- Resistant to weather, ozone, hydrolysis- and UV-radiation
- Chemical resistant to solvents, acids, lyes and hydraulic liquidity
- Guaranteed permanent application in multi-shift operation under extreme high bending stress
- High resistant to mechanical strain
- High property of alternating bending strength
- Long life durabilities through low friction-resistance by using the PP-core insulation where the core are stranded in layers
- High tensile strength-, abrasion- and impact resistant at low temperature
- Adhesion-low
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

These pair stranded and overall screened special cables for drag chains offer the operational possibilities where the outer electrical influences at high frequency cause interference of impulse transmission, are applied for permanent flexible operations in machineries, machine tools, robot technics, for movable automated machinery parts and multi-shift-operation as a transmission-cable. These high flexible data cables are developed according to the newest state of technology improvement and with its sliding abilities by using the PP-core insulation and adhesion-low and cut-resistant PUR-outer sheath, guaranteed an optimum life durabilities and highly economic. For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems. Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.pairs x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
19101	1 x 2 x 0,25	4,7	14,0	28,0	24
19102	2 x 2 x 0,25	6,5	32,0	61,0	24
19103	3 x 2 x 0,25	6,6	38,4	73,0	24
19104	4 x 2 x 0,25	7,1	43,2	90,0	24
19105	5 x 2 x 0,25	8,2	51,5	105,0	24
19106	6 x 2 x 0,25	8,5	71,8	133,0	24
19107	8 x 2 x 0,25	9,2	74,4	156,0	24
19108	10 x 2 x 0,25	10,7	90,0	188,0	24
19109	14 x 2 x 0,25	11,5	111,2	220,0	24
19119	1 x 2 x 0,5	5,5	22,0	47,0	20
19120	2 x 2 x 0,5	7,9	50,0	100,0	20
19121	3 x 2 x 0,5	8,2	71,8	131,0	20
19122	4 x 2 x 0,5	8,9	74,4	149,0	20
19123	5 x 2 x 0,5	10,3	84,5	169,0	20
19124	6 x 2 x 0,5	10,7	99,6	196,0	20
19125	8 x 2 x 0,5	11,8	144,3	285,0	20
19126	10 x 2 x 0,5	13,5	176,0	344,0	20
19127	14 x 2 x 0,5	14,8	215,4	401,0	20

Part no.	No.pairs x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
19128	1 x 2 x 0,75	6,3	34,0	61,0	19
19129	2 x 2 x 0,75	9,0	60,0	113,0	19
19130	3 x 2 x 0,75	9,1	85,7	158,0	19
19131	4 x 2 x 0,75	9,9	93,6	173,0	19
19132	5 x 2 x 0,75	11,5	113,0	203,0	19
19133	6 x 2 x 0,75	11,9	130,4	231,0	19
19134	8 x 2 x 0,75	13,1	192,2	343,0	19
19135	10 x 2 x 0,75	15,0	258,0	467,0	19
19136	14 x 2 x 0,75	16,4	316,6	546,0	19
19137	1 x 2 x 1	6,9	42,0	71,0	18
19138	2 x 2 x 1	10,0	73,0	130,0	18
19139	3 x 2 x 1	10,2	93,6	170,0	18
19140	4 x 2 x 1	11,3	117,8	204,0	18
19141	5 x 2 x 1	13,1	139,0	238,0	18

Dimensions and specifications may be changed without prior notice. (RC03)