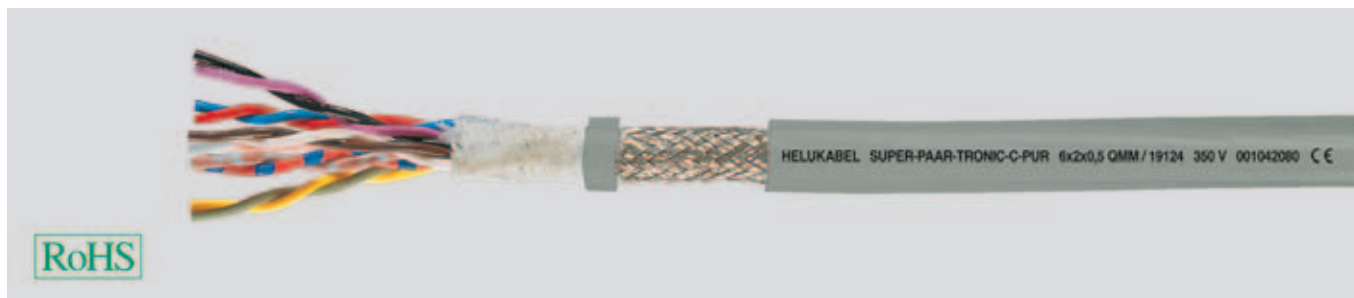


# SUPER-PAAR-TRONIC-C-PUR cable for drag chains,

halogen-free, EMC-preferred type, meter marking



## Technical data

- Special PETP-PUR cable, twisted in pairs, adapted to DIN VDE 0245, 0812
- **Conductor and loop resistance** as per DIN VDE 0295, for 0,25 mm<sup>2</sup> see pages Technical-Informations
- **Temperature range**  
flexing -40°C to +70°C  
fixed installation -50°C to +70°C
- **Nominal voltage** 350 V
- **Test voltage** 1500 V
- **Insulation resistance**  
min. 100 MΩm x km
- **Mutual capacitance**  
approx. 135 nF/km
- **Minimum bending radius**  
flexing at 0,25 mm<sup>2</sup>  
approx. 7,5xcable Ø  
fixed installation at 0,25 mm<sup>2</sup>  
approx. 4xcable Ø  
flexing at 0,5-1,0 mm<sup>2</sup>  
approx. 10xcable Ø  
fixed installation at 0,5-1,0 mm<sup>2</sup>  
approx. 5xcable Ø
- **Coupling resistance**  
max. 250 Ωm/km
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable structure

- Plain copper conductors, extra fine wire stranded to DIN VDE 0295 cl. 6, col. 4, BS 6360 cl. 6 and IEC 60228 cl. 6
- Special core insulation of TPE, **oil resistant**
- Core identification as per 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
- **Full-polyurethane** outer jacket TPU, to DIN VDE 0282 part 10, appendix A
- Outer jacket grey (RAL 7001)
- with meter marking, change-over in 2009

## Properties

- Very good oil resistant, test method according to DIN VDE 0472 part 803
- Resistant to weather, ozone and UV-radiation
- Chemical resistant to solvents, acids, lyes and hydraulic liquidity
- Flame retardant
- 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 TPE-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 mm<sup>2</sup>.

## 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 PETP-core insulation and adhesion-low and cut-resistant PUR-outer jacket, 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 optimise 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/EG.

Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
19101	1 x 2 x 0,25	4,6	14,0	28,0	24
19102	2 x 2 x 0,25	6,0	32,0	61,0	24
19103	3 x 2 x 0,25	7,3	38,4	73,0	24
19104	4 x 2 x 0,25	7,8	43,2	90,0	24
19105	5 x 2 x 0,25	8,9	51,5	105,0	24
19106	6 x 2 x 0,25	9,5	71,8	133,0	24
19107	8 x 2 x 0,25	10,8	74,4	156,0	24
19108	10 x 2 x 0,25	12,5	90,0	188,0	24
19109	14 x 2 x 0,25	12,5	111,2	220,0	24
19119	1 x 2 x 0,5	6,0	22,0	47,0	20
19120	2 x 2 x 0,5	9,0	50,0	100,0	20
19121	3 x 2 x 0,5	10,4	71,8	131,0	20
19122	4 x 2 x 0,5	10,8	74,4	149,0	20
19123	5 x 2 x 0,5	12,3	84,5	169,0	20
19124	6 x 2 x 0,5	13,3	99,6	196,0	20
19125	8 x 2 x 0,5	16,5	144,3	285,0	20
19126	10 x 2 x 0,5	16,8	176,0	344,0	20
19127	14 x 2 x 0,5	16,8	215,4	401,0	20

Part No.	No.pairs x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
19128	1 x 2 x 0,75	7,2	34,0	61,0	18
19129	2 x 2 x 0,75	10,4	60,0	113,0	18
19130	3 x 2 x 0,75	11,4	85,7	158,0	18
19131	4 x 2 x 0,75	12,5	93,6	173,0	18
19132	5 x 2 x 0,75	13,8	113,0	203,0	18
19133	6 x 2 x 0,75	14,7	130,4	231,0	18
19134	8 x 2 x 0,75	16,4	192,2	343,0	18
19135	10 x 2 x 0,75	20,7	258,0	467,0	18
19136	14 x 2 x 0,75	20,7	316,6	546,0	18
19137	1 x 2 x 1	6,6	42,0	71,0	17
19138	2 x 2 x 1	9,7	73,0	130,0	17
19139	3 x 2 x 1	12,0	93,6	170,0	17
19140	4 x 2 x 1	11,5	117,8	204,0	17
19141	5 x 2 x 1	12,6	139,0	238,0	17

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