

# SUPER-PAAR-TRONIC 340-C-PUR

cable for drag chains, halogen-free, EMC-preferred type



HELUKABEL SUPER-PAAR-TRONIC-340 C-PUR: 20 AWG / 0,56 QMM 8 C  
SHIELDED 80°C 300V FT-2 LL 113926 CSA AWM I/II A/B 80° FT1



## Technical data

- Special drag chain cable, stranded in pairs
- **Temperature range**  
flexing -40°C to +80°C  
fixed -50°C to +80°C
- **Nominal voltage** 350 V
- **Test voltage**  
core/core 1500 V  
core/screen 1000 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Mutual capacitance**  
core/core approx. 60 nF/km
- **Minimum bending radius**  
for permanent bending  
at 0,25 mm<sup>2</sup>  
flexing 7,5x cable Ø  
fixed 4x cable Ø  
at 0,5-1,0 mm<sup>2</sup>  
flexing 10x cable Ø  
fixed 5x cable Ø
- **Coupling resistance**  
max. 250 Ohm/km
- **Radiation resistance**  
up to 100x10<sup>6</sup> CJ/kg (up to 100 Mrad)

## Cable construction

- Bare copper conductor, fine wire to DIN VDE 0295 cl. 6, col. 4, BS 6360 cl. 6 and IEC 60228 cl. 6
- **Polyolefin** core insulation
- Colour coded to DIN 47100
- Cores stranded in pairs, pairs stranded torsion-free in layers with optimal lay-length
- Core wrapping between the layers of stranding
- Braided screen of tinned Cu wires, coverage approx. 85%
- Core wrapping with fleece
- **Full polyurethane** outer sheath TMPU acc. to DIN VDE 0281 Part 10, Annex A and acc. to UL std. 1581 Tab. 50227 80°C
- Sheath colour grey (RAL 7001)

## Properties

- Flame-retardant outer sheath acc. to DIN VDE 0482 Part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (as per DIN VDE 0472 Part 804 Test Method B)
- Very good oil resistance
- Weather, ozone and UV-resistant
- Chemical resistance to solvents, acids, alkalis and hydraulic fluids
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Advantages

- Very high resistance to mechanical stresses
- Very good alternating bending strength
- High tear, abrasion and impact resistance, even at low temperatures

## Application

Stranded in pairs, these fully-screened special drag chain cables can also be used where external, high-frequency interference influences pulse transfer. They are used for permanently flexible stresses in machine and tool building, in robot technology, on constantly moving machine components and **as a bus cable** for extended use in multi-shift operations.

Developed to state-of-the-art technology, these highly-flexible data cable, with a cut resistant and low-adhesion PUR outer sheath guaranteeing optimal service life and extremely good cost efficiency. This two-approvals single-core cable is preferred for use in export-oriented mechanical engineering, in machine tools, production lines and systems engineering. Guaranteed extended use in multi-shift operations with extremely high bending stresses.

**EMC** = Electromagnetic compatibility

To optimise the EMC characteristics we recommend a large area of contact of the copper braiding around the entire circumference on both ends.

CE= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
49830	1 x 2 x 0,25	24	5,0	14,0	26,0
49831	2 x 2 x 0,25	24	6,9	32,0	61,0
49832	3 x 2 x 0,25	24	7,4	38,4	70,0
49833	4 x 2 x 0,25	24	8,1	43,2	82,0
49834	5 x 2 x 0,25	24	8,6	51,5	99,0
49835	6 x 2 x 0,25	24	9,2	71,8	126,0
49836	8 x 2 x 0,25	24	10,6	74,4	147,0
49837	10 x 2 x 0,25	24	12,2	90,0	179,0
49838	14 x 2 x 0,25	24	12,5	111,2	210,0
49839	1 x 2 x 0,34	22	5,6	20,0	35,0
49840	2 x 2 x 0,34	22	7,7	41,0	80,0
49841	3 x 2 x 0,34	22	8,6	52,2	100,0
49842	4 x 2 x 0,34	22	9,5	59,1	118,0
49843	5 x 2 x 0,34	22	9,9	67,0	134,0
49844	6 x 2 x 0,34	22	10,9	86,4	162,0
49845	8 x 2 x 0,34	22	12,0	107,5	214,0
49846	10 x 2 x 0,34	22	14,0	131,0	270,0
49847	14 x 2 x 0,34	22	14,3	150,0	304,0
49848	1 x 2 x 0,5	20	6,2	22,5	47,0
49849	2 x 2 x 0,5	20	9,1	53,0	100,0
49850	3 x 2 x 0,5	20	10,1	72,8	131,0

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
49851	4 x 2 x 0,5	20	10,7	75,6	149,0
49852	5 x 2 x 0,5	20	11,7	85,7	169,0
49853	6 x 2 x 0,5	20	12,0	103,0	181,0
49854	8 x 2 x 0,5	20	14,1	148,4	274,0
49855	10 x 2 x 0,5	20	16,2	180,0	332,0
49856	14 x 2 x 0,5	20	16,4	218,3	390,0
49857	1 x 2 x 0,75	19	6,4	35,2	56,0
49858	2 x 2 x 0,75	19	10,1	61,4	102,0
49859	3 x 2 x 0,75	19	10,5	87,1	144,0
49860	4 x 2 x 0,75	19	11,1	95,2	160,0
49861	5 x 2 x 0,75	19	12,1	115,0	193,0
49862	6 x 2 x 0,75	19	13,1	137,1	216,0
49863	8 x 2 x 0,75	19	15,2	184,4	327,0
49864	10 x 2 x 0,75	19	18,0	259,8	451,0
49865	14 x 2 x 0,75	19	18,3	318,4	521,0
49866	1 x 2 x 1	18	6,9	42,0	64,0
49867	2 x 2 x 1	18	10,8	73,0	120,0
49868	3 x 2 x 1	18	11,4	93,6	160,0
49869	4 x 2 x 1	18	12,0	117,8	184,0
49870	5 x 2 x 1	18	13,8	139,0	217,0

Dimensions and specifications may be changed without prior notice.