

SUPER-PAAR-TRONIC-C-PUR®

colour code DIN 47100, EMC-preferred type



HELUKABEL® SUPER-PAAR-TRONIC-C-PUR® 8x2x0,5 QMM / 19125 350 V CE

TECHNICAL DATA

PUR drag chain cable in alignment with DIN VDE 0285-525-1 / DIN EN 50525-1

Temperature range	flexible -30°C to +70°C fixed -40°C to +70°C
Nominal voltage	AC U 350 V
Test voltage core/core	1500 V
Mutual capacitance core/core	at 800 Hz, approx. 60 pF/m
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 0.14 - 0.25 mm ² : 7.5 x Outer-Ø 0.5 - 1 mm ² : 10 x Outer-Ø fixed 0.14 - 0.25 mm ² : 4 x Outer-Ø 0.5 - 1 mm ² : 5 x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, extra finely stranded, 0.5 - 1 mm²: acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Wire structure:
0.14 mm²: approx. 18 x 0.1 mm
0.25 mm²: approx. 32 x 0.1 mm
- Core insulation: PP
- Core identification acc. to DIN 47100 (paired stranding), colour coded
- x = without protective conductor
- Cores stranded in pairs with optimally matched lay lengths, Pairs stranded in layers with optimally matched lay lengths
- Fleece wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- Outer sheath: Special grade of full polyurethane acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater
- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- for outdoor use
- suitable for use in drag chains
- highly resistant to alternate bending strength
- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals:
EAC

APPLICATION

Drag chain compatible cable with overall screen and stranded in pairs that offers operational possibilities where outer electrical influences at high frequency may cause interference of impulse transmission; suitable for permanent flexible operations in machinery, machine tools, robot technics, for movable automated machinery parts and multi-shift-operation as a transmission-cable. This highly flexible data cable with enhanced sliding capabilities by using PP-core insulation and an adhesion-low and cut-resistant PUR-outer sheath, guarantees optimum durability and is highly economic.

EMC = Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
 - 1) the assembly instructions must be observed
 - 2) for further application parameters, please refer to the selection tables
 - 3) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
19758	1 x 2 x 0.14	26	4.5	13.0	24.0
19759	2 x 2 x 0.14	26	5.9	19.2	42.0
19768	3 x 2 x 0.14	26	6.2	23.3	53.0
19769	4 x 2 x 0.14	26	6.7	27.0	60.0
19778	5 x 2 x 0.14	26	7.4	37.6	74.0
19779	6 x 2 x 0.14	26	8.0	49.2	90.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
19788	8 x 2 x 0.14	26	9.4	54.6	108.0
19789	10 x 2 x 0.14	26	10.0	60.0	119.0
19101	1 x 2 x 0.25	24	4.9	14.0	28.0
19102	2 x 2 x 0.25	24	6.6	32.0	61.0
19103	3 x 2 x 0.25	24	6.9	38.4	73.0
19104	4 x 2 x 0.25	24	7.7	43.2	90.0

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Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
19105	5 x 2 x 0.25	24	8.3	51.5	105.0
19106	6 x 2 x 0.25	24	9.2	71.8	133.0
19107	8 x 2 x 0.25	24	10.8	74.4	156.0
19108	10 x 2 x 0.25	24	11.5	90.0	188.0
19109	14 x 2 x 0.25	24	12.6	111.2	220.0
19119	1 x 2 x 0.5	20	5.7	22.0	47.0
19120	2 x 2 x 0.5	20	8.1	50.0	100.0
19121	3 x 2 x 0.5	20	8.6	71.8	131.0
19122	4 x 2 x 0.5	20	9.5	74.4	149.0
19123	5 x 2 x 0.5	20	10.5	84.5	169.0
19124	6 x 2 x 0.5	20	11.4	99.6	196.0
19125	8 x 2 x 0.5	20	13.8	144.3	285.0
19126	10 x 2 x 0.5	20	14.9	176.0	344.0
19127	14 x 2 x 0.5	20	16.3	215.4	401.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
19128	1 x 2 x 0.75	19	6.5	34.0	61.0
19129	2 x 2 x 0.75	19	9.0	60.0	113.0
19130	3 x 2 x 0.75	19	9.5	85.7	158.0
19131	4 x 2 x 0.75	19	10.5	93.6	173.0
19132	5 x 2 x 0.75	19	11.4	113.0	203.0
19133	6 x 2 x 0.75	19	12.6	130.4	231.0
19134	8 x 2 x 0.75	19	15.2	192.2	343.0
19135	10 x 2 x 0.75	19	16.4	258.0	467.0
19136	14 x 2 x 0.75	19	17.9	316.6	546.0
19137	1 x 2 x 1	18	6.9	42.0	71.0
19138	2 x 2 x 1	18	9.6	73.0	130.0
19139	3 x 2 x 1	18	10.4	93.6	170.0
19140	4 x 2 x 1	18	11.3	117.8	204.0
19141	5 x 2 x 1	18	12.5	139.0	238.0