SUPER-PAAR-TRONIC-C-PUR®

colour code DIN 47100, EMC-preferred type



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 mm²: 7.5 x Outer-Ø 0.5 - 1 mm²: 10 x Outer-Ø fixed 0.14 - 0.25 mm²: 4 x Outer-Ø 0.5 - 1 mm²: 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 restistant 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 frequence 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. mm²	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. mm²	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. mm²	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. mm²	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

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