SUPERTRONIC®-C-PURö

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 +90°C fixed -40°C to +90°C
Nominal voltage	0.14 mm²: AC U 350 V 0.25 - 0.34 mm²: AC U 500 V
Test voltage core/core	1500 V
Test voltage core/screen	1000 V
Mutual capacitance core/core	at 800 Hz, approx. 80 pF/m
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 7.5x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, extra finely stranded
- Wire structure:
  0.14 mm²: approx. 18 x 0.1 mm
  0.25 mm²: approx. 32 x 0.1 mm
  0.34 mm²: approx. 42 x 0.1 mm
- Core insulation: PP
- Core identification acc. to DIN 47100, colour coded
- x = without protective conductor
- Cores 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
- 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

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- 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

Used for installation in dry, damp and wet rooms, as well as outdoors. With free movement, without tensile stress and without forced motion control capabilities, these cables have proven their reliable performance in drag chain applications, for frequent lifting and bending stress in machine and tool construction, in robotics and on permanently moving machine parts. A long service life and high economic efficiency are also guaranteed. 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.
49653	2 x 0.14	26	4.2	11.2	32.0
49654	3 x 0.14	26	4.4	14.1	35.0
49655	4 x 0.14	26	4.7	15.5	40.0
49656	5 x 0.14	26	5.3	18.3	45.0
49657	7 x 0.14	26	6.0	27.8	66.0
49658	10 x 0.14	26	7.2	39.3	86.0
49659	12 x 0.14	26	7.2	42.1	94.0
49660	14 x 0.14	26	7.5	45.3	102.0
49661	18 x 0.14	26	8.4	54.1	118.0
49662	24 x 0.14	26	9.7	66.3	149.0
49663	25 x 0.14	26	10.1	68.4	156.0
49664	2 x 0.25	24	4.5	14.9	38.0
49665	3 x 0.25	24	4.9	18.8	44.0
49666	4 x 0.25	24	5.3	21.3	51.0
49667	5 x 0.25	24	5.7	31.0	68.0
49668	7 x 0.25	24	6.7	39.6	82.0
49669	10 x 0.25	24	8.0	53.9	110.0
49670	12 x 0.25	24	8.0	59.1	124.0
49671	14 x 0.25	24	8.4	64.2	135.0
49672	18 x 0.25	24	9.4	78.4	160.0
49673	24 x 0.25	24	10.8	89.9	202.0
49674	25 x 0.25	24	11.2	101.0	211.0
49675	2 x 0.34	22	4.9	18.1	45.0
49676	3 x 0.34	22	5.2	28.7	60.0

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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.
49677	4 x 0.34	22	5.5	35.7	76.0
49678	5 x 0.34	22	6.1	39.1	82.0
49679	7 x 0.34	22	7.0	52.7	110.0
49680	10 x 0.34	22	8.5	67.4	148.0
49681	12 x 0.34	22	8.5	76.4	166.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
49682	14 x 0.34	22	8.8	85.5	185.0
49683	18 x 0.34	22	9.9	99.7	216.0
49684	24 x 0.34	22	11.4	147.1	300.0
49685	25 x 0.34	22	11.9	155.0	313.0

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