HELUCHAIN® SUPERTRONIC®-PURö

colour code DIN 47100



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
Mutual capacitance core/core	at 800 Hz, approx. 80 pF/m
Minimum bending radius	flexible 5x Outer-Ø fixed 3x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, extra finely stranded
- Strand construction:
  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
- 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.

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 factor per km	Weight kg/km, approx.
49583	2 x 0.14	26	3.6	2.8	22.0
49584	3 x 0.14	26	3.8	4.1	24.0
49585	4 x 0.14	26	4.1	5.6	29.0
49586	5 x 0.14	26	4.5	7.0	33.0
49587	7 x 0.14	26	5.4	9.8	47.0
49588	10 x 0.14	26	6.6	14.0	59.0
49589	12 x 0.14	26	6.6	16.8	67.0
49590	14 x 0.14	26	6.9	19.6	74.0
49591	18 x 0.14	26	7.6	25.2	86.0
49592	24 x 0.14	26	9.0	33.6	115.0
49593	25 x 0.14	26	9.3	35.0	120.0
49594	2 x 0.25	24	3.9	5.0	27.0
49595	3 x 0.25	24	4.1	7.5	33.0
49596	4 x 0.25	24	4.7	10.0	40.0
49597	5 x 0.25	24	5.1	12.5	48.0
49598	7 x 0.25	24	6.1	17.5	60.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
49599	10 x 0.25	24	7.4	25.0	79.0
49600	12 x 0.25	24	7.4	30.1	91.0
49601	14 x 0.25	24	7.8	35.0	102.0
49602	18 x 0.25	24	8.8	45.0	125.0
49603	24 x 0.25	24	10.1	60.0	163.0
49604	25 x 0.25	24	10.7	62.5	170.0
49605	2 x 0.34	22	4.1	6.8	32.0
49606	3 x 0.34	22	4.3	10.2	40.0
49607	4 x 0.34	22	4.9	13.6	55.0
49608	5 x 0.34	22	5.3	17.0	60.0
49609	7 x 0.34	22	6.4	23.8	80.0
49610	10 x 0.34	22	7.8	34.0	112.0
49611	12 x 0.34	22	7.8	40.8	127.0
49612	14 x 0.34	22	8.4	47.6	142.0
49613	18 x 0.34	22	9.3	61.2	175.0
49614	24 x 0.34	22	10.9	81.5	229.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
49615	25 x 0.34	22	11.5	85.0	238.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.

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