

SUPERTRONIC® - 310-C-PVC

EMC-preferred type



HELUKABEL® SUPERTRONIC®-310-C-PVC AWM STYLE 2464 22 AWG / 0,34 QMM 5C
80°C 300V VW-1 LL 113926 CSA AWM I/II A/B 80°C FT1 CE

TECHNICAL DATA

PVC drag chain cable acc. to UL-Std. 758 (AWM) Style 2464, CSA-Std. C22.2 No. 210 - AWM I/II A/B

Temperature range	flexible -5°C to +80°C fixed -40°C to +80°C
Nominal voltage	UL (AWM) AC 300 V
Test voltage core/core	1500 V
Test voltage core/screen	1000 V
Breakdown voltage	3000 V
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, finely stranded, unilay with short lay lengths
- Core insulation: Special-PVC acc. to UL-Std. 1581 Tab. 50.183 (semirigid)
- Core identification acc. to DIN 47100, colour coded
- x = without protective conductor
- Cores stranded in layers with optimally matched lay lengths
- Fleece wrapping over each stranding layer
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- Outer sheath: oil-resistant special PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM5), UL-Std. 1581
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
49920	2 x 0.14	26	4.4	11.3	33.0
49921	3 x 0.14	26	4.6	14.2	36.0
49922	4 x 0.14	26	4.9	15.5	41.0
49923	5 x 0.14	26	5.2	18.4	46.0
49924	7 x 0.14	26	5.8	27.9	70.0
49925	10 x 0.14	26	6.8	39.1	88.0
49926	12 x 0.14	26	6.8	42.2	97.0
49927	14 x 0.14	26	7.1	45.4	105.0
49928	18 x 0.14	26	7.7	54.2	116.0
49929	24 x 0.14	26	8.7	66.5	150.0
49930	25 x 0.14	26	9.1	68.5	157.0
49931	2 x 0.25	24	4.7	14.8	39.0
49932	3 x 0.25	24	4.9	18.9	45.0
49933	4 x 0.25	24	5.2	21.4	52.0
49934	5 x 0.25	24	5.6	31.2	70.0
49935	7 x 0.25	24	6.3	39.8	80.0
49936	10 x 0.25	24	7.4	53.9	114.0

- resistant to: oil
- low adhesion
- suitable for use in drag chains
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, UL VW-1, CSA FT1
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

APPLICATION

Used as a highly flexible PVC drag chain cable suitable for frequent and fast lifting and bending stress in machine and tool construction, robotics, and in permanently moving machine parts. A long service life guarantees reliable function and high efficiency. The copper screening effectively protects against internal and external interference. Designed for the export-oriented machine construction industry, specifically for the USA and Canada. 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.
49937	12 x 0.25	24	7.4	59.2	123.0
49938	14 x 0.25	24	7.7	64.3	138.0
49939	18 x 0.25	24	8.5	78.6	165.0
49940	24 x 0.25	24	9.8	89.8	200.0
49941	25 x 0.25	24	10.2	101.2	204.0
49942	2 x 0.34	22	4.9	18.2	44.0
49943	3 x 0.34	22	5.1	28.8	60.0
49944	4 x 0.34	22	5.5	35.8	76.0
49945	5 x 0.34	22	5.9	39.2	80.0
49946	7 x 0.34	22	6.7	52.8	104.0
49947	10 x 0.34	22	7.8	67.5	150.0
49948	12 x 0.34	22	7.8	76.5	160.0
49949	14 x 0.34	22	8.2	85.9	180.0
49950	18 x 0.34	22	9.0	99.9	211.0
49951	24 x 0.34	22	10.4	147.0	290.0
49952	25 x 0.34	22	11.0	155.0	304.0