SUPERTRONIC-310-C-PVC special cable for drag chains,

EMC-preferred type, meter marking

Technical data

- Special PVC drag chain cable approved to UL-Style 2464
- **Temperature range**
  flexing -5 °C to +80 °C
  fixed installation -40 °C to +80 °C
- **Nominal voltage** 300 V
- **Test voltage**
  core/core 1500 V
  core/screen 1000 V
- **Breakdown voltage**
  min. 3000 V
- **Minimum bending radius**
  flexing 7,5x cable ø
  fixed installation 4x cable ø
- **Insulation resistance**
  min. 20 MOhm x km
- **Radiation resistance**
  up to 80x10^6 cJ/kg (up to 80 Mrad)
- **Coupling resistance**
  max. 250 Ohm/km

Cable structure

- Bare copper conductor, fine wire Unilay with short lay-lengths
- PVC core insulation, class 43 acc. to UL std. 1581
- Colour coded to DIN 47100
- Cores stranded in layers with optimal lay-length
- Core wrapping from fleece between the layers of stranding
- Core wrapping over the outer layer
- Braided screen of tinned Cu wires, coverage approx. 85%
- Core wrapping with fleece
- PVC outer jacket, oil resistant, TM5 acc. to DIN VDE 0281 Part 1 or class 43 acc. to UL std. 1581
- Sheath colour grey (RAL 7001)
- with meter marking, change-over in 2011

Properties

- Low-adhesion
- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- Please observe applicable installation regulations for use in energy supply chains.

Application

A highly-flexible PVC control cable suitable for frequent and fast lifting and bending stresses in machines and tool building, robot systems and on constantly moving machine components. Long service lives guarantee reliable function and good cost efficiency. The copper screen effectively protects against internal and external interference. Designed for machines intended for export, specifically USA and Canada. For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems. Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.
EMC = Electromagnetic compatibillity
To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
49920	2 x 0,14	26	4,3	11,3	33,0
49921	3 x 0,14	26	4,5	14,2	36,0
49922	4 x 0,14	26	4,7	15,5	41,0
49923	5 x 0,14	26	5,0	18,4	46,0
49924	7 x 0,14	26	5,7	27,9	70,0
49925	10 x 0,14	26	6,4	39,1	88,0
49926	12 x 0,14	26	6,7	42,2	97,0
49927	14 x 0,14	26	6,9	45,4	105,0
49928	18 x 0,14	26	7,6	54,2	116,0
49929	24 x 0,14	26	8,6	66,5	150,0
49930	25 x 0,14	26	9,0	68,5	157,0
49931	2 x 0,25	24	4,6	14,8	39,0
49932	3 x 0,25	24	4,8	18,9	45,0
49933	4 x 0,25	24	5,1	21,4	52,0
49934	5 x 0,25	24	5,5	31,2	70,0
49935	7 x 0,25	24	6,2	39,8	80,0
49936	10 x 0,25	24	7,1	53,9	114,0
49937	12 x 0,25	24	7,3	59,2	123,0

Part no.	No.cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
49938	14 x 0,25	24	7,6	64,3	138,0
49939	18 x 0,25	24	8,3	78,6	165,0
49940	24 x 0,25	24	9,7	89,8	200,0
49941	25 x 0,25	24	10,1	101,2	204,0
49942	2 x 0,34	22	4,8	18,2	44,0
49943	3 x 0,34	22	5,0	28,8	60,0
49944	4 x 0,34	22	5,4	35,8	76,0
49945	5 x 0,34	22	5,7	39,2	80,0
49946	7 x 0,34	22	6,6	52,8	104,0
49947	10 x 0,34	22	7,5	67,5	150,0
49948	12 x 0,34	22	7,7	76,5	160,0
49949	14 x 0,34	22	8,1	85,9	180,0
49950	18 x 0,34	22	8,9	99,9	211,0
49951	24 x 0,34	22	10,3	147,0	290,0
49952	25 x 0,34	22	10,9	155,0	304,0

Dimensions and specifications may be changed without prior notice. (RN05)