SUPERTRONIC®-C-PVC special cable for drag chains, EMC-preferred type, meter marking

RoHS

Technical data

- Special PVC cable for drag chains, adapted to DIN VDE 0285-525-1 / DIN EN 50525-1
- Very high flexible due to special construction
- **Temperature range**
  flexing -5°C to +70°C
  fixed installation -40°C to +70°C
- **Nominal voltage** 350 V
- **Test voltage** 1500 V
- **Breakdown voltage** min. 3000 V
- **Insulation resistance**
  min. 20 MOhm x km
- **Minimum bending radius**
  flexing 7,5x cable Ø
  fixed installation 4x cable Ø
- **Radiation resistance**
  up to 80x10⁶ cJ/kg (up to 80 Mrad)
- **Coupling resistance**
  max. 250 Ohm/km

Cable structure

- Bare copper, extra fine wire conductors, to DIN VDE 0295 cl.6
- Core insulation of special PVC compound type TI2 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Cores colour coded to DIN 47100, see Technical Informations
- Cores stranded in layers with optimal selected lay-length
- Core wrapping with textile tape
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour grey (RAL 7001)
- with meter marking

Properties

- Extensively oil resistant
  Chemical Resistance - see table Technical Informations
- Adhesion-low
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

The ideal cable for use in cable trays. This high flexible cable is ideal for all areas requiring a high and fast flexing cable including the machine industries, robotics and all areas of highly mobile machine parts. The long working life offers a secure performance as well as economy. 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 optimize 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/EC.

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
49620	2 x 0,14	4,0	11,2	33,0	26
49621	3 x 0,14	4,2	14,1	36,0	26
49622	4 x 0,14	4,4	15,5	41,0	26
49623	5 x 0,14	4,7	18,3	46,0	26
49624	7 x 0,14	5,3	27,6	70,0	26
49625	10 x 0,14	6,7	39,3	88,0	26
49626	12 x 0,14	6,8	41,1	97,0	26
49627	14 x 0,14	7,1	45,3	105,0	26
49628	18 x 0,14	7,7	54,1	122,0	26
49629	24 x 0,14	9,0	66,3	156,0	26
49630	25 x 0,14	9,1	68,4	162,0	26
49631	2 x 0,25	4,7	14,9	39,0	24
49632	3 x 0,25	4,9	18,8	45,0	24
49633	4 x 0,25	5,2	21,3	52,0	24
49634	5 x 0,25	5,6	31,0	70,0	24
49635	7 x 0,25	6,7	39,6	88,0	24
49636	10 x 0,25	7,8	53,9	114,0	24
49637	12 x 0,25	8,1	59,1	128,0	24

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
49638	14 x 0,25	8,5	64,2	140,0	24
49639	18 x 0,25	9,5	78,4	166,0	24
49640	24 x 0,25	11,0	89,9	210,0	24
49641	25 x 0,25	11,1	101,0	220,0	24
49642	2 x 0,34	5,2	16,1	46,0	22
49643	3 x 0,34	5,4	28,7	62,0	22
49644	4 x 0,34	5,8	35,7	80,0	22
49645	5 x 0,34	6,7	39,1	88,0	22
49646	7 x 0,34	7,6	52,7	116,0	22
49647	10 x 0,34	9,0	67,4	156,0	22
49648	12 x 0,34	9,1	76,4	167,0	22
49649	14 x 0,34	9,6	85,3	195,0	22
49650	18 x 0,34	10,7	99,7	225,0	22
49651	24 x 0,34	12,6	147,1	312,0	22
49652	25 x 0,34	12,8	155,0	325,0	22

Dimensions and specifications may be changed without prior notice. (RC03)