

SUPERTRONIC®-PURÖ special cable for drag chains, meter marking



Technical data

- Special PUR drag chain cables adapted to DIN VDE 0281 part 13
- 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 MΩm x km
- **Minimum bending radius**
flexing 5x cable Ø
fixed installation 3x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, extra fine wire conductors, to DIN VDE 0295 cl. 6, col. 4 and 5, cl. 6 and IEC 60228 cl. 6
- **Oil resistant** PVC core insulation TI2, in adapted to DIN VDE 0281 part 1, for better sliding abilities
- Cores are stranded in layer with short lay-length
- Cores colour coded to DIN 47100
- Core wrapping with textile tape
- Special **full-polyurethane** outer jacket TMPU to DIN VDE 0282 part 10, appendix A
- Outer jacket grey (RAL 7001), surface mat
- with meter marking, change-over in 2009

Properties

- **Features**
High flexibility at low temperature, high abrasion resistance, break and cut-resistant, tear resistant, flame retardant.
- **Resistant to** UV-radiation, Oxygen, Ozone, Hydrolyse, Oil.
- **Conditional resistant to** Microbes, Hydraulic liquidity, Alkalis, Lye.
- The PUR outer jacket is extremely robust with high tear, abrasion and oil-resistance. Adhesion-free.
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

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

Application

Perfect for use with cable trays. This highly flexible and screened PUR control cable is ideal for use wherever frequent high flexing motion is required, e.g. in robotics or all moving parts. The long working life of this cable makes it both efficient and economic.

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.

CE The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
49583	2 x 0,14	3,5	2,8	22,0	26
49584	3 x 0,14	3,7	4,1	24,0	26
49585	4 x 0,14	3,9	5,6	29,0	26
49586	5 x 0,14	4,2	7,0	33,0	26
49587	7 x 0,14	4,9	9,8	47,0	26
49588	10 x 0,14	6,2	14,0	59,0	26
49589	12 x 0,14	6,4	16,8	67,0	26
49590	14 x 0,14	6,6	19,6	74,0	26
49591	18 x 0,14	7,3	25,2	86,0	26
49592	24 x 0,14	8,5	33,6	115,0	26
49593	25 x 0,14	8,6	35,0	120,0	26
49594	2 x 0,25	4,2	5,0	27,0	24
49595	3 x 0,25	4,3	7,5	33,0	24
49596	4 x 0,25	4,8	10,0	40,0	24
49597	5 x 0,25	5,1	12,5	48,0	24
49598	7 x 0,25	6,2	17,5	60,0	24
49599	10 x 0,25	7,2	25,0	79,0	24

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
49600	12 x 0,25	7,6	30,1	91,0	24
49601	14 x 0,25	7,9	35,0	102,0	24
49602	18 x 0,25	8,9	45,0	125,0	24
49603	24 x 0,25	10,4	60,0	163,0	24
49604	25 x 0,25	10,8	62,5	170,0	24
49605	2 x 0,34	4,5	6,8	32,0	22
49606	3 x 0,34	4,9	10,2	40,0	22
49607	4 x 0,34	5,3	13,6	55,0	22
49608	5 x 0,34	6,2	17,0	60,0	22
49609	7 x 0,34	6,9	23,8	80,0	22
49610	10 x 0,34	8,4	34,0	112,0	22
49611	12 x 0,34	8,6	40,8	127,0	22
49612	14 x 0,34	9,0	47,6	142,0	22
49613	18 x 0,34	10,1	61,2	175,0	22
49614	24 x 0,34	12,0	81,5	229,0	22
49615	25 x 0,34	12,2	85,0	238,0	22

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

SUPERTRONIC®-C-PURÖ special cable for drag chains, halogen-free, EMC-preferred type, meter marking



C

Technical data

- Special PUR drag chain cables, screened, in adapted to DIN VDE 0281 part 13
- **Temperature range**
flexing -40°C to +70°C
fixed installation -50°C to +70°C
- **Nominal voltage**
0,14 mm² 350 V
0,25 and 0,34 mm² 500 V
- **Test voltage**
0,14 mm² 800 V
0,25 and 0,34 mm² 1200 V
- **Capacitance** core/core <80 nF/km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 100x10

Cable structure

- Plain copper conductors extra fine wire stranded to DIN VDE 0295 cl. 6, col. 4 and 5, IEC 60228 cl. 6
- **Oil resistant** TPE core insulation
- Cores are stranded in layer with short lay-length
- Cores colour coded to DIN 47100
- Core wrapping with textile tape
- Tinned copper screened braiding. Due to the technical facilities, the copper braiding can be mixed and webbed with a portion of synthetic fibres
- Special **full-polyurethane** outer jacket TMPU to DIN VDE 0282 part 10, appendix A
- Outer jacket grey (RAL 7001)
- with meter marking, change-over in 2009

Properties

- **Features**
High flexibility at low temperature, high abrasion resistance, break and cut-resistant, tear resistant, flame retardant.
- **Resistant to** UV-radiation, Oxygen, Ozone, Hydrolyse, Oil.
- **Conditional resistant to** Microbes, Hydraulic liquidity, Alkalis, Lye.
- The PUR outer jacket is extremely robust with high tear, abrasion and oil-resistance. Adhesion-free.
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

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

Application

Used for installation in dry, moist and wet environments as well as for outdoors, for free movement without forced motion and for flexible routing without forced motion, for proven use as drag-chain cables. Suitable as a highly flexible control cable for fast hoisting and bending stresses in machinery and tooling construction, in robotics engineering and for continuously moving machinery parts.

The long working life of this cable makes it both efficient and economic. The copper braided screening offers effective protection from both internal and external interference.

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 compatibility

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. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
49653	2 x 0,14	4,1	11,2	32,0	26	49670	12 x 0,25	8,4	59,1	124,0	24
49654	3 x 0,14	4,3	14,1	35,0	26	49671	14 x 0,25	8,7	64,2	135,0	24
49655	4 x 0,14	4,5	15,5	40,0	26	49672	18 x 0,25	9,5	78,4	160,0	24
49656	5 x 0,14	4,7	18,3	45,0	26	49673	24 x 0,25	11,0	89,9	202,0	24
49657	7 x 0,14	5,7	27,8	66,0	26	49674	25 x 0,25	11,1	101,0	211,0	24
49658	10 x 0,14	6,7	39,3	86,0	26						
49659	12 x 0,14	7,0	42,1	94,0	26	49675	2 x 0,34	5,0	18,1	45,0	22
49660	14 x 0,14	7,1	45,3	102,0	26	49676	3 x 0,34	5,4	28,7	60,0	22
49661	18 x 0,14	7,8	54,1	118,0	26	49677	4 x 0,34	6,2	35,7	76,0	22
49662	24 x 0,14	9,0	66,3	149,0	26	49678	5 x 0,34	6,7	39,1	82,0	22
49663	25 x 0,14	9,1	68,4	156,0	26	49679	7 x 0,34	7,6	52,7	110,0	22
						49680	10 x 0,34	9,2	67,4	148,0	22
49664	2 x 0,25	4,6	14,9	38,0	24	49681	12 x 0,34	9,7	76,4	166,0	22
49665	3 x 0,25	4,8	18,8	44,0	24	49682	14 x 0,34	10,0	85,5	185,0	22
49666	4 x 0,25	5,3	21,3	51,0	24	49683	18 x 0,34	11,0	99,7	216,0	22
49667	5 x 0,25	5,7	31,0	68,0	24	49684	24 x 0,34	12,6	147,1	300,0	22
49668	7 x 0,25	6,7	39,6	82,0	24	49685	25 x 0,34	12,8	155,0	313,0	22
49669	10 x 0,25	8,2	53,9	110,0	24						

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