

# JZ-602 RC-PUR special cable for drag chains, 80°C, 600 V, two approval

## control cable, meter marking



HELUKABEL JZ-602-RC-PUR AWM 18 AWG/0,75 QMM 5C E170315 CSA AWM I/II A/B 80°C 600V FT 1 CE



### Technical data

- Control cable of special-PUR to UL CSA AWM I/II A/B Style 20939 (sheath insulation) and CSA
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** UL/CSA 600 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 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 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

### Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.6, extra fine-wire, BS 6360 cl.6, IEC 60228 cl.6
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3 and class 43 to UL-Std.1581
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor in the outer layer
- Cores stranded in layers with optimal selected lay-length
- Core wrapping with fleece over each layer
- Outer sheath of special **full-polyurethane**
- Sheath colour grey (RAL 7001)
- with meter marking

### Properties

- Resistant to mineral oils, synthetic oils and coolant, UV-radiation, oxygene, ozon and hydrolysis. Conditionally resistant to microbes.
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

### Note

- G = with green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**JZ-602 RC-C-PUR**

### Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist, wet rooms and outdoor. These special cables for drag chains are used for permanent flexible applications in machineries, machine tools, robot technics, for movable automated machinery parts. 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.

**RC** = Robotics Cable

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

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
12630	3 G 0,5	20	6,0	14,0	58,0
12631	4 G 0,5	20	6,5	19,0	69,0
12632	5 G 0,5	20	7,1	24,0	84,0
12633	7 G 0,5	20	8,2	34,0	123,0
12634	9 G 0,5	20	10,0	43,2	177,0
12635	12 G 0,5	20	10,5	58,2	192,0
12636	18 G 0,5	20	12,5	86,0	256,0
12637	25 G 0,5	20	15,2	120,0	358,0
12638	34 G 0,5	20	17,1	163,0	487,0
12639	3 G 0,75	18	6,6	23,8	88,0
12640	4 G 0,75	18	7,1	31,7	101,0
12641	5 G 0,75	18	7,8	39,6	126,0
12642	7 G 0,75	18	9,2	55,4	145,0
12643	9 G 0,75	18	11,0	86,4	168,0
12644	12 G 0,75	18	11,5	95,0	260,0
12645	15 G 0,75	18	13,2	119,0	300,0
12646	18 G 0,75	18	14,0	142,4	360,0
12647	25 G 0,75	18	17,2	197,8	640,0
12648	34 G 0,75	18	19,1	269,0	730,0
12649	3 G 1,5	16	7,4	44,0	94,0
12650	4 G 1,5	16	8,0	58,0	117,0
12651	5 G 1,5	16	8,8	72,0	140,0
12652	7 G 1,5	16	10,8	101,0	186,0
12653	9 G 1,5	16	12,8	129,7	244,0
12654	12 G 1,5	16	13,5	173,0	319,0
12655	18 G 1,5	16	16,0	260,0	451,0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
12656	25 G 1,5	16	19,8	360,0	625,0
12657	34 G 1,5	16	22,4	490,0	840,0
12658	3 G 2,5	14	8,9	72,0	150,0
12659	4 G 2,5	14	10,1	96,0	185,0
12660	5 G 2,5	14	11,3	120,0	242,0
12661	7 G 2,5	14	13,6	168,0	293,0
12662	12 G 2,5	14	16,8	288,0	498,0
12663	3 G 4	12	10,9	115,0	231,0
12664	4 G 4	12	12,4	154,0	298,0
12665	5 G 4	12	13,8	192,0	370,0
12666	7 G 4	12	16,6	269,0	460,0
12667	4 G 6	10	14,6	231,0	430,0
12668	4 G 10	8	18,2	384,0	720,0
12669	4 G 16	6	22,6	615,0	1060,0
12670	4 G 25	4	26,5	960,0	1590,0
12671	4 G 35	2	30,8	1344,0	2105,0

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