

JZ-602 RC*-C-PUR special cable for drag chains, 80°C, 600V, two approvals control cable, EMC-preferred type, meter marking



Technical data

- Control cable of special-PUR to UL CSA AWM I/II A/B Style 20939 (jacket insulation) and CSA
- Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
- Nominal voltage**
according to UL+CSA 600 V
- Test voltage** 4000 V
- Breakdown voltage** min. 8000 V
- Insulation resistance**
min 20 MOhm x km
- Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- Radiation resistance**
up 100x10⁶ cJ/kg (up to 100 Mrad)
- Coupling resistance**
max. 250 Ohm/km

Cable structure

- Bare copper, extra fine wire conductors, to DIN VDE 0295 cl. 6, BS 6360 cl. 6 and IEC 60228 cl. 6
- Special PVC core insulation, Y18 to DIN VDE 0207 part 4 and class 43 to UL-Std. 1581
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer
- Cores with optimal selected lay-length
- Core wrapping with fleece over each layer
- PVC-inner sheath
- Screening:
up to 17 mm Ø - layer of tinned copper wires
>17 mm Ø - tinned copper wire braid coverage ca. 85%
- Full-polyurethane**
outer jacket grey (RAL 7001)
- with meter marking, change-over in 2009

Properties

- Resistant to mineral oils, synthetic oils and refrigerants, 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 earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:**
JZ-602 RC* PUR see page N 65

Application

These cable 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. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above applications. For applications which go beyond standard solutions 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.

RC = Robotics Cable.

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

Part No.	No. cores x cross-sec. mm ²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	Part No.	No. cores x cross-sec. mm ²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
12680	3 G 0,5	20	8,5	45,0	124,0	12704	12 G 1,5	16	17,1	256,0	461,0
12681	4 G 0,5	20	9,1	52,0	135,0	12705	18 G 1,5	16	20,2	360,0	674,0
12682	5 G 0,5	20	9,7	68,0	153,0	12706	25 G 1,5	16	25,2	544,0	950,0
12683	7 G 0,5	20	11,0	93,0	191,0	12707	34 G 1,5	16	28,1	674,0	1205,0
12684	9 G 0,5	20	12,4	134,0	243,0						
12685	12 G 0,5	20	13,5	163,0	322,0	12708	3 G 2,5	14	11,8	141,0	220,0
12686	15 G 0,5	20	14,8	174,0	350,0	12709	4 G 2,5	14	13,2	170,0	270,0
12687	18 G 0,5	20	16,0	191,0	374,0	12710	5 G 2,5	14	14,2	195,0	350,0
12688	25 G 0,5	20	19,0	223,0	436,0	12711	7 G 2,5	14	17,4	251,0	428,0
						12712	12 G 2,5	14	21,0	368,0	730,0
12689	3 G 0,75	18	8,9	56,0	130,0	12713	18 G 2,5	14	25,4	639,0	1140,0
12690	4 G 0,75	18	9,7	81,0	155,0						
12691	5 G 0,75	18	10,4	90,0	181,0	12714	3 G 4	12	14,0	180,0	296,0
12692	7 G 0,75	18	12,0	106,0	208,0	12715	4 G 4	12	15,9	232,0	456,0
12693	9 G 0,75	18	14,1	161,0	321,0	12716	5 G 4	12	17,7	330,0	450,0
12694	12 G 0,75	18	15,2	175,0	341,0	12717	7 G 4	12	20,9	395,0	737,0
12695	15 G 0,75	18	16,7	204,0	396,0						
12696	18 G 0,75	18	17,6	241,0	473,0	12718	4 G 6	10	18,3	316,0	572,0
12697	25 G 0,75	18	20,7	342,0	650,0						
12698	34 G 0,75	18	24,3	434,0	781,0	12719	4 G 10	8	23,2	490,0	1012,0
12699	3 G 1,5	16	10,2	89,0	165,0	12720	4 G 16	6	27,6	850,0	1400,0
12700	4 G 1,5	16	11,0	97,0	192,0						
12701	5 G 1,5	16	11,8	111,0	224,0	12721	4 G 25	4	33,1	1450,0	2100,0
12702	7 G 1,5	16	14,0	147,0	274,0						
12703	9 G 1,5	16	16,4	193,0	340,0	12722	4 G 35	2	37,8	1890,0	2550,0

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