

JZ-602 RC-CY special cable for drag chains, 90°C, 600 V, two approval control cable, EMC-preferred type, meter marking



Technical data

- Control cable of special-PVC to UL CSA AWM I/II A/B Style 2587 (sheath insulation) and CSA
- **Temperature range**
flexing -5°C to +90°C
fixed installation -40°C to +90°C (up to +105°C for short time)
- **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 10x cable Ø
fixed installation 5x 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 col. 4, BS 6360 cl.5 and IEC 60228 cl.6
- Core insulation of special PVC compound type Y18 to DIN VDE 0207 part 4 and class 43 acc. to UL-Std.1581
- Core identification to DIN VDE 0293 red cores with continuous white numbering
- GN-YE conductor in the outer layer
- Cores stranded with optimal lay-length
- Core wrapping with fleece over each layer
- PVC-inner sheath
- Screening: braid coverage ca. 85% up to 17 mm Ø - layer of tinned copper wires
>17 mm Ø - tinned copper wire
- Outer sheath of special PVC compound type YM5 to DIN VDE 0207 part 5, UL-Style 2587 and CSA C22.2 No 210
- Outer sheath black (RAL 9005)
- with meter marking

Properties

- 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), UL VW-1, CSA FT1
- UV-resistant

Note

- G = with green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:
JZ-602 RC, confer page 423

Application

These cable are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms. These special cables for drag chains are used for permanent flexible applications in machineries, machine tools, robot technics, for movable automated machinery parts. These cables have shown excellent performance in combination with standard cable trays. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above applications. Interesting for the export-oriented machines and machinery plants. 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 optimize 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/EC.

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
89950	3 G 0,5	20	8,5	45,0	124,0
89951	4 G 0,5	20	9,0	52,0	135,0
89952	5 G 0,5	20	9,7	68,0	153,0
89953	7 G 0,5	20	11,0	93,0	191,0
89954	9 G 0,5	20	12,4	134,0	243,0
89955	12 G 0,5	20	13,5	163,0	322,0
89956	15 G 0,5	20	14,8	174,0	350,0
89957	18 G 0,5	20	16,0	191,0	374,0
89958	25 G 0,5	20	19,0	223,0	436,0
89959	3 G 1	18	8,9	56,0	130,0
89960	4 G 1	18	9,7	81,0	155,0
89961	5 G 1	18	10,4	90,0	181,0
89962	7 G 1	18	12,0	106,0	208,0
89963	9 G 1	18	14,1	161,0	321,0
89964	12 G 1	18	15,2	175,0	341,0
89965	15 G 1	18	16,7	204,0	396,0
89966	18 G 1	18	17,6	241,0	473,0
89967	25 G 1	18	20,7	342,0	650,0
89968	34 G 1	18	24,3	434,0	781,0
89969	3 G 1,5	16	10,2	89,0	165,0
89970	4 G 1,5	16	11,0	97,0	192,0
89971	5 G 1,5	16	11,8	111,0	224,0
89972	7 G 1,5	16	14,0	147,0	274,0
89973	9 G 1,5	16	16,4	193,0	340,0
89974	12 G 1,5	16	17,1	256,0	461,0
89975	18 G 1,5	16	20,2	360,0	674,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
89976	25 G 1,5	16	25,2	544,0	950,0
89977	34 G 1,5	16	28,1	674,0	1203,0
89984	3 G 2,5	14	11,8	141,0	220,0
89978	4 G 2,5	14	13,2	170,0	270,0
89985	5 G 2,5	14	14,2	195,0	350,0
89979	7 G 2,5	14	17,4	251,0	428,0
89986	12 G 2,5	14	21,0	368,0	730,0
89980	18 G 2,5	14	25,4	639,0	1140,0
89987	3 G 4	12	14,0	180,0	296,0
89981	4 G 4	12	15,9	232,0	456,0
89988	5 G 4	12	17,7	330,0	450,0
89982	7 G 4	12	20,9	395,0	737,0
89983	4 G 6	10	18,3	316,0	572,0
89989	4 G 10	8	23,2	490,0	1012,0
89990	4 G 16	6	27,6	850,0	1400,0
89991	4 G 25	4	33,1	1450,0	2100,0
89992	4 G 35	2	37,8	1890,0	2550,0

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