

JZ-602-CY EMC-preferred type, 90°C 600V, screened two approvals

control cable



HELUKABEL JZ-602-CY 90 AWM 16 AWG (1,5 mm²) 7C E170315 CSA AWM 1A/B 2A/B FT 1 600 V 90°C C



Technical data

- Special PVC-insulated sheathed cable according to UL AWM Style 10012 (core insulation) Style 2587 and CSA
- **Temperature range**
flexing -5°C to +90°C
fixed installation -40°C to +90°C
- **Nominal voltage** according to UL+CSA 600 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Insulation resistance**
min. 20 MΩm 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 Ωm/km

Cable construction

- Bare copper, fine wire stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation Y18, to DIN VDE 0207 part 4 and class 43 to UL-Std. 1581
- Cores black with sequential numbering imprinted in white
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- PVC-insulated inner sheath YM5 to DIN VDE 0207 part 5
- Braided screen of tinned Cu wires approx. 85% coverage
- Special PVC outer sheath YM5, to DIN VDE 0207 part 5 and class 43 to UL-Std. 1581
- Colour grey (RAL 7001)

Properties

- Resistant to mineral oils, synthetic oils and refrigerants. The outer sheath is approved with an improved oil-resistance-test.
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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;
x = without green-yellow earth core (OZ).
- Cleanroom qualification tested with analog type. Please note "cleanroom qualified" when ordering.

Application

UL and CSA approved flexible control cables up to 600 V, for all machinery in tooling and plant construction, suitable for installation in dry, moist or wet environments for medium mechanical loads. Designed for the export-orientated machinery manufacturer, specifically for USA and Canada. The thick braiding screen ensures compliance with electromagnetic requirements.

EMC = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

C = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm ²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
82990	2 x 0,5	20	7,8	40,0	93,0
82991	3 G 0,5	20	8,1	45,0	124,0
82992	4 G 0,5	20	8,7	52,0	133,0
82993	5 G 0,5	20	9,3	68,0	153,0
82994	7 G 0,5	20	10,6	93,0	191,0
82995	9 G 0,5	20	12,4	134,0	243,0
82996	12 G 0,5	20	13,1	163,0	322,0
82997	18 G 0,5	20	15,7	191,0	374,0
82998	25 G 0,5	20	18,3	223,0	436,0
82999	34 G 0,5	20	20,2	284,0	560,0
83000	41 G 0,5	20	22,4	336,0	663,0
82979	2 x 1	18	8,2	51,0	107,0
82980	3 G 1	18	8,5	56,0	130,0
82981	4 G 1	18	9,2	81,0	155,0
82982	5 G 1	18	10,1	90,0	181,0
82983	7 G 1	18	11,4	101,0	209,0
82984	9 G 1	18	13,4	161,0	321,0
82985	12 G 1	18	13,9	175,0	341,0
82986	18 G 1	18	16,3	241,0	473,0
82987	25 G 1	18	19,6	342,0	650,0
82988	34 G 1	18	22,6	434,0	781,0
82989	41 G 1	18	24,4	499,0	892,0
82968	2 x 1,5	16	8,8	70,0	136,0
82969	3 G 1,5	16	9,3	89,0	165,0
82970	4 G 1,5	16	10,1	97,0	192,0
82971	5 G 1,5	16	10,9	111,0	224,0
82972	7 G 1,5	16	13,0	147,0	273,0
82973	9 G 1,5	16	14,9	193,0	340,0
82974	12 G 1,5	16	15,7	256,0	461,0

Part No.	No. cores x cross-sec. mm ²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
82975	18 G 1,5	16	18,4	380,0	674,0
82976	25 G 1,5	16	22,4	544,0	950,0
82977	34 G 1,5	16	25,3	674,0	1203,0
82978	41 G 1,5	16	27,5	881,0	1588,0
82959	2 x 2,5	14	10,4	73,0	173,0
82960	3 G 2,5	14	10,9	111,0	220,0
82961	4 G 2,5	14	11,9	141,0	270,0
82962	5 G 2,5	14	13,3	169,0	329,0
82963	7 G 2,5	14	15,7	251,0	428,0
82964	9 G 2,5	14	18,2	326,0	580,0
82965	12 G 2,5	14	19,3	430,0	761,0
82966	18 G 2,5	14	23,2	639,0	1140,0
82967	25 G 2,5	14	28,5	892,0	1551,0
82954	2 x 4	12	12,6	116,0	209,0
82955	3 G 4	12	13,2	198,0	310,0
82956	4 G 4	12	14,6	232,0	456,0
82957	5 G 4	12	15,9	275,0	532,0
82958	7 x 4	12	19,1	395,0	737,0
82949	2 G 6	10	14,3	183,0	318,0
82950	3 G 6	10	15,3	242,0	411,0
82951	4 G 6	10	16,7	316,0	572,0
82952	5 G 6	10	18,5	411,0	732,0
82953	7 G 6	10	22,2	570,0	961,0
82945	3 G 10	8	19,2	416,0	741,0
82946	4 G 10	8	21,3	571,0	988,0
82947	5 G 10	8	23,9	690,0	1202,0
82948	7 G 10	8	26,7	971,0	1743,0

Dimensions and specifications may be changed without prior notice.

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