



HELUKABEL JZ-602 AWM 14 AWG (2,5 mm<sup>2</sup>) 3C E170315 CSA AWM 1A/B 2A/B FT 1 600 V 90°C

CE



## Technical data

- Control cable of special-PVC to UL AWM Style 10012 (core insulation) Style 2587 (jacket insulation) 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 MOhm x km
- Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## 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
- Black conductors with consecutive numbering in white
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- 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 water based coolants
- 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).
- Please note the cleanroom qualification when ordering.

## Application

UL-listed and CSA certified flexible control cable rated at 600 V. Used in machine tools, control systems, connection between control panels and machines, assembly lines and other industrial equipment. Suitable for installation in dry, moist or wet environment and moderate flexing applications.

CE= 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 <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
83090	2 x 0,5	20	5,9	9,6	49,0
83091	3 G 0,5	20	6,3	14,0	58,0
83092	4 G 0,5	20	6,7	19,0	69,0
83093	5 G 0,5	20	7,3	24,0	84,0
83094	7 G 0,5	20	8,5	34,0	123,0
83100	8 G 0,5	20	9,6	38,4	140,0
83101	9 G 0,5	20	10,4	43,2	177,0
83095	12 G 0,5	20	10,9	58,0	192,0
83096	18 G 0,5	20	12,9	86,0	256,0
83097	25 G 0,5	20	15,5	120,0	358,0
83098	34 G 0,5	20	17,7	163,0	487,0
83099	41 G 0,5	20	19,9	197,0	580,0
83080	2 x 1	18	6,3	19,2	53,0
83081	3 G 1	18	6,7	27,0	61,0
83565	3 x 1	18	6,7	27,0	61,0
83082	4 G 1	18	7,3	38,4	74,0
83083	5 G 1	18	7,9	48,0	90,0
83084	7 G 1	18	9,2	67,0	130,0
83102	8 G 1	18	10,0	76,8	144,0
83103	9 G 1	18	11,1	86,4	180,0
83085	12 G 1	18	11,8	115,2	198,0
83086	18 G 1	18	14,1	173,0	274,0
83087	25 G 1	18	17,1	240,0	384,0
83088	34 G 1	18	19,3	326,0	494,0
83089	41 G 1	18	21,2	394,0	508,0
83070	2 x 1,5	16	6,9	28,8	73,0
83071	3 G 1,5	16	7,5	44,0	94,0
83072	4 G 1,5	16	8,1	58,0	117,0

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
83073	5 G 1,5	16	8,7	72,0	140,0
83074	7 G 1,5	16	10,6	101,0	186,0
83104	9 G 1,5	16	12,8	129,7	244,0
83075	12 G 1,5	16	13,4	173,0	319,0
83076	18 G 1,5	16	15,8	260,0	451,0
83077	25 G 1,5	16	18,9	360,0	625,0
83078	34 G 1,5	16	21,7	490,0	840,0
83079	41 G 1,5	16	23,7	590,0	1032,0
83060	2 x 2,5	14	8,2	48,0	115,0
83061	3 G 2,5	14	8,7	72,0	143,0
83062	4 G 2,5	14	10,1	96,0	185,0
83063	5 G 2,5	14	10,9	120,0	221,0
83064	7 G 2,5	14	13,1	168,0	293,0
83065	9 G 2,5	14	15,6	216,0	429,0
83066	12 G 2,5	14	16,7	288,0	563,0
83067	18 G 2,5	14	19,6	432,0	854,0
83068	19 G 2,5	14	19,7	456,0	914,0
83069	25 G 2,5	14	24,0	600,0	1188,0
83051	3 G 4	12	11,2	115,0	232,0
83052	4 G 4	12	12,5	154,0	298,0
83053	5 G 4	12	13,8	192,0	358,0
83054	7 G 4	12	16,3	269,0	460,0
83041	3 G 6	10	12,9	173,0	360,0
83042	4 G 6	10	14,2	231,0	402,0
83043	5 G 6	10	15,9	288,0	484,0
83044	7 G 6	10	19,4	403,0	630,0

Dimensions and specifications may be changed without prior notice.

Continuation ►