

JZ-602 two approval control cable, 90°C, 600 V, oil resistant, meter marking



HELUKABEL JZ-602 AWM 14 AWG (2,5 mm²) 3C E170315 CSA AWM 1A/B 2A/B FT 1 600 V 90°C CE



Technical data

- Control cable of special-PVC acc. 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
- Nominal voltage**
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 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of PVC compound type T13 to DIN VDE 0207-363-3 / DIN EN 50363-3 and class 43 acc. to UL-Std. 1581
- Core identification black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC compound type YM5 to DIN VDE 0207 part 5 and class 43 acc. to UL-Std. 1581
- Sheath colour grey (RAL 7001)
- with meter marking

Properties

- Resistant to mineral oils, synthetic oils and coolant
- The outer sheath is approved with an improved oil-resistance-test
- 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

Note

- G = with green-yellow conductor
x = without green-yellow conductor (OZ)
- Please note the cleanroom qualification when ordering.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type:
JZ-602-CY, confer page 373

Application

UL-approved 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 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
83090	2 x 0,5	20	5,6	9,6	49,0
83091	3 G 0,5	20	5,9	14,0	58,0
83092	4 G 0,5	20	6,4	19,0	69,0
83093	5 G 0,5	20	6,9	24,0	84,0
83094	7 G 0,5	20	7,5	34,0	123,0
83100	8 G 0,5	20	8,3	38,4	140,0
83101	9 G 0,5	20	8,9	43,2	177,0
83095	12 G 0,5	20	9,8	58,0	192,0
83096	18 G 0,5	20	12,0	86,0	256,0
83097	25 G 0,5	20	14,3	120,0	358,0
83098	34 G 0,5	20	16,5	163,0	487,0
83099	41 G 0,5	20	17,9	197,0	580,0
83080	2 x 1	18	6,3	19,2	53,0
83081	3 G 1	18	6,6	27,0	61,0
83082	4 G 1	18	7,2	38,4	74,0
83565	3 x 1	18	6,6	27,0	61,0
83083	5 G 1	18	7,9	48,0	90,0
83084	7 G 1	18	8,7	67,0	130,0
83102	8 G 1	18	9,5	76,8	144,0
83103	9 G 1	18	10,4	86,4	180,0
83085	12 G 1	18	11,2	115,2	198,0
83086	18 G 1	18	14,1	173,0	274,0
83087	25 G 1	18	16,8	240,0	384,0
83088	34 G 1	18	19,5	326,0	494,0
83089	41 G 1	18	21,2	394,0	508,0
83070	2 x 1,5	16	6,8	28,8	73,0
83071	3 G 1,5	16	7,2	44,0	94,0
83072	4 G 1,5	16	7,9	58,0	117,0
83073	5 G 1,5	16	8,7	72,0	140,0
83074	7 G 1,5	16	9,7	101,0	186,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
83104	9 G 1,5	16	11,5	129,7	244,0
83075	12 G 1,5	16	12,6	173,0	319,0
83076	18 G 1,5	16	15,8	260,0	451,0
83077	25 G 1,5	16	18,3	360,0	625,0
83078	34 G 1,5	16	21,4	490,0	840,0
83079	41 G 1,5	16	23,3	590,0	1032,0
83060	2 x 2,5	14	7,8	48,0	115,0
83061	3 G 2,5	14	8,5	72,0	143,0
83062	4 G 2,5	14	9,3	96,0	185,0
83063	5 G 2,5	14	10,4	120,0	221,0
83064	7 G 2,5	14	11,5	168,0	293,0
83065	9 G 2,5	14	13,9	216,0	429,0
83066	12 G 2,5	14	15,2	288,0	563,0
83067	18 G 2,5	14	18,7	432,0	854,0
83068	19 G 2,5	14	18,7	456,0	914,0
83069	25 G 2,5	14	22,2	600,0	1188,0
83051	3 G 4	12	9,7	115,0	232,0
83052	4 G 4	12	10,6	154,0	298,0
83053	5 G 4	12	11,8	192,0	358,0
83054	7 G 4	12	13,1	269,0	460,0
83041	3 G 6	10	11,3	173,0	360,0
83042	4 G 6	10	12,5	231,0	402,0
83043	5 G 6	10	13,9	288,0	484,0
83044	7 G 6	10	15,4	403,0	630,0
83031	3 G 10	8	14,7	288,0	535,0
83032	4 G 10	8	16,3	384,0	653,0
83033	5 G 10	8	18,3	480,0	786,0
83034	7 G 10	8	20,2	672,0	1100,0

Continuation ▶

JZ-602 two approval control cable, 90°C, 600 V, oil resistant, meter marking



Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
83020	2 x 16	6	18,8	307,0	640,0
83021	3 G 16	6	20,2	461,0	810,0
83022	4 G 16	6	22,3	615,0	1045,0
83023	5 G 16	6	24,9	768,0	1260,0
83024	7 G 16	6	27,5	1075,0	1760,0
83011	3 G 25	4	24,0	720,0	1180,0
83012	4 G 25	4	26,9	960,0	1507,0
83013	5 G 25	4	31,9	1200,0	1858,0
83014	7 G 25	4	33,0	1680,0	2830,0
83001	3 G 35	2	26,2	1008,0	1590,0
83002	4 G 35	2	29,7	1344,0	2123,0
83003	5 G 35	2	33,0	1680,0	2612,0
83004	3 G 50	1	31,9	1440,0	2652,0
83005	4 G 50	1	35,6	1920,0	3058,0
83006	5 G 50	1	39,7	2400,0	4093,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
83007	3 G 70	2/0	36,8	2016,0	3307,0
83008	4 G 70	2/0	40,9	2688,0	4254,0
83009	5 G 70	2/0	45,6	3360,0	5661,0
83010	3 G 95	3/0	40,9	2736,0	4867,0
83015	4 G 95	3/0	45,6	3648,0	5762,0
83016	5 G 95	3/0	50,7	4560,0	7208,0
83017	3 G 120	4/0	48,1	3456,0	5580,0
83018	4 G 120	4/0	53,3	4608,0	7280,0
83019	5 G 120	4/0	58,9	5760,0	8692,0

Dimensions and specifications may be changed without prior notice. (RN01)



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-PA
- Cable Gland - HELUTOP® HT-MS