



HELUKABEL JZ-602-PUR AWM 14 AWG/2,5 QMM 4C E170315 CSA AWM I/II A/B 80°C 600V FT 1

CE



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** 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 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI3, to DIN VDE 0281 part 1 and UL-Style 10012
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Full-polyurethane**
outer jacket grey (RAL 7001)
- with meter marking, change-over in 2011

Properties

- Resistant to mineral oils, synthetic oils, water based coolants, 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;
x = without green-yellow earth core (0Z).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:**
JZ-602-C-PUR, see page N 51

Application

UL and CSA approved flexible control cable rated at 600 V, primarily designed for exporters to the US or Canadian market. Used in machine tools, control systems, connection between control panels and machines, assembly lines and other industrial equipment. Suitable for installation in dry, moist, wet and outdoor environment and moderate flexing applications.

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 approx. mm	Cop. weight kg / km	Weight approx. kg / km
12471	2 x 0,5	20	5,8	9,6	52,0
12472	3 G 0,5	20	6,2	14,0	64,0
12473	4 G 0,5	20	6,6	19,0	72,0
12474	5 G 0,5	20	7,2	24,0	88,0
12475	7 G 0,5	20	8,4	34,0	130,0
12476	8 G 0,5	20	9,5	38,4	145,0
12477	9 G 0,5	20	10,3	43,2	180,0
12478	12 G 0,5	20	10,8	58,0	196,0
12479	18 G 0,5	20	12,8	86,0	260,0
12480	25 G 0,5	20	15,4	120,0	368,0
12481	34 G 0,5	20	17,6	163,0	502,0
12482	41 G 0,5	20	19,7	197,0	594,0
12483	2 x 1	18	6,2	19,2	57,0
12484	3 G 1	18	6,6	27,0	68,0
12485	4 G 1	18	7,2	38,4	79,0
12486	5 G 1	18	7,8	48,0	97,0
12487	7 G 1	18	9,1	67,0	141,0
12488	8 G 1	18	9,9	76,8	152,0
12489	9 G 1	18	11,0	86,4	190,0
12490	12 G 1	18	11,7	115,2	211,0
12491	18 G 1	18	14,0	173,0	284,0
12492	25 G 1	18	17,0	240,0	394,0
12493	34 G 1	18	19,2	326,0	521,0
12494	41 G 1	18	21,0	394,0	609,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
12495	2 x 1,5	16	6,8	28,8	75,0
12496	3 G 1,5	16	7,4	44,0	96,0
12497	4 G 1,5	16	8,0	58,0	117,0
12498	5 G 1,5	16	8,6	72,0	140,0
12499	7 G 1,5	16	10,5	101,0	186,0
12500	9 G 1,5	16	12,7	129,7	244,0
12501	12 G 1,5	16	13,3	173,0	319,0
12502	18 G 1,5	16	15,7	260,0	451,0
12503	25 G 1,5	16	18,8	360,0	625,0
12504	34 G 1,5	16	22,0	490,0	850,0
12505	41 G 1,5	16	23,6	590,0	1041,0
12506	2 x 2,5	14	8,1	48,0	115,0
12507	3 G 2,5	14	8,6	72,0	143,0
12508	4 G 2,5	14	10,0	96,0	185,0
12509	5 G 2,5	14	10,8	120,0	221,0
12510	7 G 2,5	14	13,0	168,0	293,0
12511	9 G 2,5	14	15,5	216,0	429,0
12512	12 G 2,5	14	16,6	288,0	563,0
12513	18 G 2,5	14	19,5	432,0	854,0
12514	19 G 2,5	14	19,5	456,0	914,0
12515	25 G 2,5	14	23,8	600,0	1188,0
12516	3 G 4	12	11,1	115,0	232,0
12517	4 G 4	12	12,4	154,0	298,0

Continuation ►

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Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
12518	5 G 4	12	13,7	192,0	358,0
12519	7 G 4	12	16,2	269,0	460,0
12520	3 G 6	10	12,8	173,0	360,0
12521	4 G 6	10	14,1	231,0	402,0
12522	5 G 6	10	15,7	288,0	484,0
12523	7 G 6	10	19,2	403,0	630,0
12524	3 G 10	8	16,8	288,0	535,0
12525	4 G 10	8	18,3	384,0	653,0
12526	5 G 10	8	20,1	480,0	786,0

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
12527	7 G 10	8	22,4	672,0	1100,0
12528	2 x 16	6	19,2	307,0	640,0
12529	3 G 16	6	20,5	461,0	810,0
12530	4 G 16	6	23,0	615,0	1045,0
12531	5 G 16	6	25,5	768,0	1260,0
12532	7 G 16	6	28,2	1075,0	1760,0
12533	3 G 25	4	25,0	720,0	1180,0
12534	4 G 25	4	28,1	960,0	1507,0
12535	5 G 25	4	30,9	1200,0	1858,0
12536	7 G 25	4	35,5	1680,0	2830,0
12537	3 G 35	2	28,6	1008,0	1590,0
12538	4 G 35	2	31,7	1344,0	2123,0
12539	5 G 35	2	35,5	1680,0	2612,0
12540	4 G 50	1	35,8	1920,0	3058,0
12541	4 G 70	2/0	41,6	2688,0	4254,0
12542	4 G 95	3/0	46,0	3648,0	5762,0
12543	4 G 120	4/0	52,8	4608,0	7280,0

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

Conduits

Corrugated tubes

for standard applications
for larger sizes
scissile corrugated tubes
conduit glands

High flexible conduits

plastic conduits with spiral spring
metal conduits
conduits glands

Conduit for heavy mechanical duty

metal conduits with plastic sheat
plastic conduits
conduits glands for metal conduits



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