

JZ-602-C-PUR screened two approvals control cable, 80°C, 600V, EMC-preferred type



HELUKABEL JZ-602-C-PUR AWM 16 AWG/1,5 QMM 4C E170315 CSA AWM I/II A/B 80°C 600V FT 1 CE



Technical data

- Special PUR-insulated 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 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 100x10⁶ CJ/kg (up to 100 Mrad)
- **Coupling resistance**
max. 250 Ohm/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 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
- PVC-insulated inner sheath YM5 to DIN VDE 0207 part 5
- Braided screen of tinned Cu wires approx. 85% coverage
- **Full-polyurethane**
outer jacket grey (RAL 7001)

Properties

- Resistant to mineral oils, synthetic oils and refrigerants, UV-radiation, osygene, 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.

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, wet and outdoor environments for medium mechanical loads. Designed for the export-orientated machinery manufacturer, specifically for USA and Canada.

EMC = Electromagnetic compatibility

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

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 ²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
12550	2 x 0,5	20	7,7	40,0	93,0
12551	3 G 0,5	20	8,0	45,0	124,0
12552	4 G 0,5	20	8,6	52,0	133,0
12553	5 G 0,5	20	9,2	68,0	153,0
12554	7 G 0,5	20	10,5	93,0	191,0
12555	9 G 0,5	20	12,3	134,0	243,0
12556	12 G 0,5	20	13,0	163,0	322,0
12557	18 G 0,5	20	15,6	191,0	374,0
12558	25 G 0,5	20	18,2	223,0	436,0
12559	34 G 0,5	20	20,1	284,0	560,0
12560	41 G 0,5	20	22,4	336,0	663,0
12561	2 x 1	18	8,1	51,0	107,0
12562	3 G 1	18	8,4	56,0	130,0
12563	4 G 1	18	9,1	81,0	155,0
12564	5 G 1	18	10,0	90,0	181,0
12565	7 G 1	18	11,3	101,0	209,0
12566	9 G 1	18	13,3	161,0	321,0
12567	12 G 1	18	13,8	175,0	341,0
12568	18 G 1	18	16,2	241,0	473,0
12569	25 G 1	18	19,5	342,0	650,0
12570	34 G 1	18	22,5	434,0	781,0
12571	41 G 1	18	24,2	499,0	892,0
12572	2 x 1,5	16	8,7	70,0	136,0
12573	3 G 1,5	16	9,2	89,0	165,0
12574	4 G 1,5	16	10,0	97,0	192,0
12575	5 G 1,5	16	10,8	111,0	224,0
12576	7 G 1,5	16	12,9	147,0	273,0
12577	9 G 1,5	16	14,8	193,0	340,0
12578	12 G 1,5	16	15,6	256,0	461,0
12579	18 G 1,5	16	18,3	380,0	674,0
12580	25 G 1,5	16	22,5	544,0	950,0
12581	34 G 1,5	16	25,1	674,0	1203,0
12582	41 G 1,5	16	27,3	881,0	1588,0

Part No.	No. cores x cross-sec. mm ²	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
12583	2 x 2,5	14	10,3	73,0	173,0
12584	3 G 2,5	14	10,8	111,0	220,0
12585	4 G 2,5	14	11,8	141,0	270,0
12586	5 G 2,5	14	13,2	169,0	329,0
12587	7 G 2,5	14	15,6	251,0	428,0
12588	9 G 2,5	14	18,1	326,0	580,0
12589	12 G 2,5	14	19,2	430,0	761,0
12590	18 G 2,5	14	23,0	639,0	1140,0
12591	25 G 2,5	14	28,3	892,0	1551,0
12592	2 x 4	12	12,5	116,0	209,0
12593	3 G 4	12	13,1	198,0	310,0
12594	4 G 4	12	14,5	232,0	456,0
12595	5 G 4	12	15,8	275,0	532,0
12596	7 G 4	12	19,0	395,0	737,0
12597	2 x 6	10	14,2	183,0	318,0
12598	3 G 6	10	15,2	242,0	411,0
12599	4 G 6	10	16,6	316,0	572,0
12600	5 G 6	10	18,4	411,0	732,0
12601	7 G 6	10	22,2	570,0	961,0
12602	3 G 10	8	19,1	416,0	741,0
12603	4 G 10	8	21,1	571,0	988,0
12604	5 G 10	8	23,7	690,0	1202,0
12605	7 G 10	8	26,5	971,0	1743,0
12606	3 G 16	6	24,2	660,0	1088,0
12607	4 G 16	6	27,2	821,0	1662,0
12608	5 G 16	6	30,6	1127,0	2021,0
12609	7 G 16	6	33,6	1512,0	2720,0
12610	3 G 25	4	30,2	1091,0	1947,0
12611	4 G 25	4	33,3	1443,0	2591,0
12612	5 G 25	4	36,8	1802,0	3197,0
12613	7 G 25	4	40,6	2520,0	4530,0

Dimensions and specifications may be changed without prior notice.

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