

JZ-602-C-PUR

screened two approval control cable, 80°C, 600 V, EMC-preferred type, meter marking



HELUKABEL JZ-602-C-PUR 9A 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 and CSA
- **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°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 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 structure

- Bare copper conductor, fine wire acc. to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3 and UL Style 10012
- Core identification to DIN VDE 0293 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
- PVC-insulated inner sheath YM5 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Braided screen of tinned Cu wires, approx. 85% coverage
- Outer sheath of **full-polyurethane**
- Sheath colour: grey (RAL 7001)
- With meter marking

Properties

- Resistant to mineral oils, synthetic oils, coolant, UV-radiation, oxygene, ozon, hydrolysis and microbes
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Note

- G = with GN-YE conductor
x = without GN-YE conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- Unscreened analogue type:

JZ-602 PUR

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

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
12550	2 x 0,5	20	7,6	41,0	93,0
12551	3 G 0,5	20	8,0	45,0	124,0
12552	4 G 0,5	20	8,5	54,0	133,0
12553	5 G 0,5	20	9,3	66,0	153,0
12554	7 G 0,5	20	10,1	79,0	191,0
12555	9 G 0,5	20	11,6	94,0	243,0
12556	12 G 0,5	20	13,1	137,0	322,0
12557	18 G 0,5	20	15,3	156,0	374,0
12558	25 G 0,5	20	18,0	250,0	436,0
12559	34 G 0,5	20	20,9	316,0	560,0
12560	41 G 0,5	20	22,2	348,0	663,0
12561	2 x 1	18	8,4	54,0	107,0
12562	3 G 1	18	9,0	64,0	130,0
12563	4 G 1	18	9,6	76,0	155,0
12564	5 G 1	18	10,8	89,0	181,0
12565	7 G 1	18	11,5	114,0	209,0
12566	9 G 1	18	13,7	144,0	321,0
12567	12 G 1	18	15,1	186,0	341,0
12568	18 G 1	18	17,9	284,0	473,0
12569	25 G 1	18	21,1	387,0	650,0
12570	34 G 1	18	24,1	500,0	781,0
12571	41 G 1	18	26,5	578,0	892,0
12572	2 x 1,5	16	9,2	64,0	136,0
12573	3 G 1,5	16	9,7	82,0	165,0
12574	4 G 1,5	16	10,8	99,0	192,0
12575	5 G 1,5	16	11,6	123,0	224,0
12576	7 G 1,5	16	12,6	148,0	273,0
12577	9 G 1,5	16	15,0	187,0	340,0
12578	12 G 1,5	16	16,7	274,0	461,0
12579	18 G 1,5	16	20,0	386,0	674,0
12580	25 G 1,5	16	23,4	531,0	950,0
12581	34 G 1,5	16	27,0	671,0	1203,0
12582	41 G 1,5	16	29,2	840,0	1588,0
12583	2 x 2,5	14	10,2	110,0	173,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
12584	3 G 2,5	14	10,9	148,0	220,0
12585	4 G 2,5	14	11,7	169,0	270,0
12586	5 G 2,5	14	13,1	220,0	329,0
12587	7 G 2,5	14	14,4	284,0	428,0
12588	9 G 2,5	14	16,8	349,0	580,0
12589	12 G 2,5	14	18,6	470,0	761,0
12590	18 G 2,5	14	22,2	572,0	1140,0
12591	25 G 2,5	14	26,6	740,0	1551,0
12592	2 x 4	12	11,6	124,0	209,0
12593	3 G 4	12	12,4	178,0	310,0
12594	4 G 4	12	14,0	234,0	456,0
12595	5 G 4	12	15,1	284,0	532,0
12596	7 G 4	12	16,6	321,0	737,0
12597	2 x 6	10	13,4	176,0	318,0
12598	3 G 6	10	14,3	245,0	411,0
12599	4 G 6	10	15,4	316,0	572,0
12600	5 G 6	10	17,1	442,0	732,0
12601	7 G 6	10	18,6	530,0	961,0
12602	3 G 10	8	17,9	367,0	741,0
12603	4 G 10	8	20,0	549,0	988,0
12604	5 G 10	8	21,9	604,0	1202,0
12605	7 G 10	8	24,0	820,0	1743,0
12606	3 G 16	6	24,4	653,0	1088,0
12607	4 G 16	6	26,9	807,0	1662,0
12608	5 G 16	6	29,8	940,0	2021,0
12609	7 G 16	6	32,4	1345,0	2720,0
12610	3 G 25	4	28,2	920,0	1947,0
12611	4 G 25	4	30,8	1169,0	2591,0
12612	5 G 25	4	34,1	1420,0	3197,0
12613	7 G 25	4	37,4	1921,0	4530,0
12614	3 G 35	2	30,7	1250,0	2701,0
12615	4 G 35	2	33,8	1680,0	3277,0
12616	5 G 35	2	37,4	2020,0	4530,0
12617	4 G 50	1	40,6	2370,0	3370,0

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