

JZ-600-YC-PUR tear and coolant resistant, 0,6/1kV, Cu-screened, EMC-preferred type, meter marking



Technical data

- Special PUR control cables Adapted to DIN VDE 0276 part 627, DIN VDE 0281 part 13, with insulation thickness for 1 kV type and UL-Std. 758 Style 20234
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Power rating**
as per DIN VDE 0298
- **Minimum bending radius**
flexing 10x cable \varnothing
fixed installation 5x cable \varnothing
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)
- **Coupling resistance**
max. 250 Ohm/km

Cable structure

- Bare copper, fine wire conductors, as per DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1, class 43 UL-Std. 1581 UL-Style 10012
- Black cores with white figure imprints to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Oil resistant PVC inner jacket, TM5 to DIN VDE 0281 part 1 and class 43 gem. UL-Std. 1581
- Tinned copper braided screening, approx. 85% coverage
- Outer jacket, special full-polyurethane adapted to DIN VDE 0282 part 10, appendix A, flame retardant to UL-Std. 758
- Colour black (RAL 9005) or grey (RAL 7001)
- with meter marking, change-over in 2011

Properties

- High abrasion resistance
- High flexibility
- Resistant to ultra violet rays
- Wear resistant
- 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.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- **unscreened analogue type:**
JZ-600 PUR, see page N 49

Application

Extremely robust, control cable resistant to mineral oils and to coolant emulsions. In tool machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. Suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside. Interesting for the export-oriented machinery plants.

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 2006/95/EG.

Part no. Jacket colour	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
28370	2 x 0,5	20	9,0	41,0	131,0
28371	3 G 0,5	20	9,3	45,0	154,0
28372	4 G 0,5	20	9,9	54,0	176,0
28373	5 G 0,5	20	10,6	66,0	204,0
28374	7 G 0,5	20	12,2	79,0	237,0
28375	12 G 0,5	20	14,7	137,0	323,0
28376	18 G 0,5	20	17,3	156,0	431,0
28377	25 G 0,5	20	20,6	250,0	507,0
28378	2 x 0,75	19	9,4	46,0	143,0
28379	3 G 0,75	19	9,8	57,0	158,0
28380	4 G 0,75	19	10,4	63,0	193,0
28381	5 G 0,75	19	11,1	76,0	231,0
28382	7 G 0,75	19	13,0	100,0	337,0
28383	12 G 0,75	19	15,8	175,0	424,0
28384	18 G 0,75	19	17,9	240,0	568,0
28385	25 G 0,75	19	22,8	306,0	741,0
28386	2 x 1	18	9,9	54,0	158,0
28387	3 G 1	18	10,3	64,0	169,0
28388	4 G 1	18	11,1	76,0	207,0
28389	5 G 1	18	12,2	89,0	244,0
28390	7 G 1	18	14,5	114,0	292,0
28391	12 G 1	18	17,4	186,0	472,0
28392	18 G 1	18	20,7	284,0	634,0
28393	25 G 1	18	24,8	387,0	861,0
28394	2 x 1,5	16	10,7	64,0	166,0
28395	3 G 1,5	16	11,2	82,0	192,0
28396	4 G 1,5	16	12,3	99,0	246,0

Part no. Jacket colour	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
28430	2 x 0,5	20	9,0	30,0	131,0
28431	3 G 0,5	20	9,3	39,0	154,0
28432	4 G 0,5	20	9,9	52,0	176,0
28433	5 G 0,5	20	10,6	61,0	204,0
28434	7 G 0,5	20	12,2	75,0	237,0
28435	12 G 0,5	20	14,7	130,0	323,0
28436	18 G 0,5	20	17,3	170,0	431,0
28437	25 G 0,5	20	20,6	230,0	507,0
28438	2 x 0,75	18	9,4	39,0	143,0
28439	3 G 0,75	18	9,8	57,0	158,0
28440	4 G 0,75	18	10,4	68,0	193,0
28441	5 G 0,75	18	11,1	79,0	231,0
28442	7 G 0,75	18	13,0	96,0	337,0
28443	12 G 0,75	18	15,8	169,0	424,0
28444	18 G 0,75	18	17,9	224,0	568,0
28445	25 G 0,75	18	22,8	292,0	741,0
28446	2 x 1	17	9,9	51,8	158,0
28447	3 G 1	17	10,3	67,0	169,0
28448	4 G 1	17	11,1	78,0	207,0
28449	5 G 1	17	12,2	94,0	244,0
28450	7 G 1	17	14,5	122,0	292,0
28451	12 G 1	17	17,4	201,0	472,0
28452	18 G 1	17	20,7	275,0	634,0
28453	25 G 1	17	24,8	364,0	861,0
28454	2 x 1,5	16	10,7	68,0	166,0
28455	3 G 1,5	16	11,2	84,0	192,0
28456	4 G 1,5	16	12,3	104,0	246,0

Continuation ▶

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Part no. Jacket colour	No. cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
black					
28397	5 G 1,5	16	13,3	123,0	294,0
28398	7 G 1,5	16	16,0	148,0	392,0
28399	12 G 1,5	16	19,6	274,0	599,0
28400	18 G 1,5	16	23,4	386,0	817,0
28401	25 G 1,5	16	28,2	531,0	1261,0
28402	2 x 2,5	14	11,8	110,0	280,0
28403	3 G 2,5	14	12,3	148,0	301,0
28404	4 G 2,5	14	13,4	169,0	352,0
28405	5 G 2,5	14	14,9	220,0	433,0
28406	7 G 2,5	14	17,9	284,0	569,0
28407	12 G 2,5	14	21,9	470,0	864,0
28408	18 G 2,5	14	26,1	572,0	1365,0
28409	25 G 2,5	14	31,9	740,0	1997,0
28410	2 x 4	12	14,3	124,0	310,0
28411	3 G 4	12	15,1	178,0	396,0
28412	4 G 4	12	16,7	234,0	531,0
28413	5 G 4	12	18,6	284,0	704,0
28414	7 G 4	12	20,0	321,0	932,0
28415	3 G 6	10	17,0	245,0	633,0
28416	4 G 6	10	18,7	316,0	742,0
28417	5 G 6	10	20,7	442,0	1117,0
28418	3 G 10	8	19,6	367,0	1131,0
28419	4 G 10	8	21,9	549,0	1357,0
28420	5 G 10	8	24,1	604,0	1646,0
28421	3 G 16	6	23,5	653,0	1397,0
28422	4 G 16	6	26,4	807,0	1880,0
28423	5 G 16	6	28,8	940,0	2721,0

Part no. Jacket colour	No. cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
grey					
28457	5 G 1,5	16	13,3	123,0	294,0
28458	7 G 1,5	16	16,0	180,0	392,0
28459	12 G 1,5	16	19,6	284,0	599,0
28460	18 G 1,5	16	23,4	390,0	817,0
28461	25 G 1,5	16	28,2	521,0	1261,0
28462	2 x 2,5	14	11,8	99,0	280,0
28463	3 G 2,5	14	12,3	124,0	301,0
28464	4 G 2,5	14	13,4	170,0	352,0
28465	5 G 2,5	14	14,9	202,0	433,0
28466	7 G 2,5	14	17,9	268,0	569,0
28467	12 G 2,5	14	21,9	423,0	864,0
28468	18 G 2,5	14	26,1	572,0	1365,0
28469	25 G 2,5	14	31,9	740,0	1997,0
28470	2 x 4	12	14,3	156,0	310,0
28471	3 G 4	12	15,1	191,0	396,0
28472	4 G 4	12	16,7	236,0	531,0
28473	5 G 4	12	18,6	303,0	704,0
28474	7 G 4	12	20,0	394,0	932,0
28475	3 G 6	10	17,0	251,0	633,0
28476	4 G 6	10	18,7	319,0	742,0
28477	5 G 6	10	20,7	421,0	1117,0
28478	3 G 10	8	19,6	371,0	1131,0
28479	4 G 10	8	21,9	576,0	1357,0
28480	5 G 10	8	24,1	620,0	1646,0
28481	3 G 16	6	23,5	540,0	1397,0
28482	4 G 16	6	26,4	807,0	1880,0
28483	5 G 16	6	28,8	1394,0	2721,0

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