

JZ-600-YC-PUR tear and coolant resistant, 1000 V, Cu-screened,

EMC-preferred type, meter marking



Technical data

- Special PUR control cables acc. to DIN VDE 0276 part 627, DIN VDE 0285-525-2-51/ DIN EN 50525-2-51, 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**
VDE U₀/U 600/1000 V
UL/CSA 1000 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm 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, fine wire conductors, acc. to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3 and class 43 acc. to UL-Std.1581 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
- Oil resistant PVC inner sheath, TM5 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1 and class 43 acc. to UL-Std.1581
- Tinned copper braided screening, approx. 85% coverage
- Outer sheath, special **full-polyurethane** compound type TMPU adapted to DIN VDE 0207-363-10-2/ DIN EN 50363-10-2, flame retardant acc. to UL-Std.758
- Sheath colour black (RAL 9005) or grey (RAL 7001)
- with meter marking

Properties

- High abrasion resistance
- High flexibility
- Resistant to ultra violet rays
- Wear resistant
- resistant to mineral oils and coolant emulsions
- 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 conductor
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:
JZ-600 PUR

Application

Extremely robust sheathed cable, used in machinery, tools and plant, in rolling and steel mills at particularly critical point. For medium mechanical stress for flexible use with free movement without tensile stress or forced movements in dry, damp and wet rooms and outdoors. Through the good flexibility quickly and safely to install. Designed for the export-oriented engineering.

EMC = Electromagnetic compatibility

To optimize 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/EC.

Part no.	No. cores x cross-sec.	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	Part no.	No. cores x cross-sec.	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
28370	2 x 0,5	20	9,0	41,0	131,0	28430	2 x 0,5	20	9,0	41,0	131,0
28371	3 G 0,5	20	9,3	45,0	154,0	28431	3 G 0,5	20	9,3	45,0	154,0
28372	4 G 0,5	20	9,9	54,0	176,0	28432	4 G 0,5	20	9,9	54,0	176,0
28373	5 G 0,5	20	10,6	66,0	204,0	28433	5 G 0,5	20	10,6	66,0	204,0
28374	7 G 0,5	20	12,2	79,0	237,0	28434	7 G 0,5	20	12,2	79,0	237,0
28375	12 G 0,5	20	14,7	137,0	323,0	28435	12 G 0,5	20	14,7	137,0	323,0
28376	18 G 0,5	20	17,3	156,0	431,0	28436	18 G 0,5	20	17,3	156,0	431,0
28377	25 G 0,5	20	20,6	250,0	507,0	28437	25 G 0,5	20	20,6	250,0	507,0
28378	2 x 0,75	19	9,4	46,0	143,0	28438	2 x 0,75	19	9,4	46,0	143,0
28379	3 G 0,75	19	9,8	57,0	158,0	28439	3 G 0,75	19	9,8	57,0	158,0
28380	4 G 0,75	19	10,4	63,0	193,0	28440	4 G 0,75	19	10,4	63,0	193,0
28381	5 G 0,75	19	11,1	76,0	231,0	28441	5 G 0,75	19	11,1	76,0	231,0
28382	7 G 0,75	19	13,0	100,0	337,0	28442	7 G 0,75	19	13,0	100,0	337,0
28383	12 G 0,75	19	15,8	175,0	424,0	28443	12 G 0,75	19	15,8	175,0	424,0
28384	18 G 0,75	19	17,9	240,0	568,0	28444	18 G 0,75	19	17,9	240,0	568,0
28385	25 G 0,75	19	22,8	306,0	741,0	28445	25 G 0,75	19	22,8	306,0	741,0
28386	2 x 1	18	9,9	54,0	158,0	28446	2 x 1	18	9,9	54,0	158,0
28387	3 G 1	18	10,3	64,0	169,0	28447	3 G 1	18	10,3	64,0	169,0
28388	4 G 1	18	11,1	76,0	207,0	28448	4 G 1	18	11,1	76,0	207,0
28389	5 G 1	18	12,2	89,0	244,0	28449	5 G 1	18	12,2	89,0	244,0
28390	7 G 1	18	14,5	114,0	292,0	28450	7 G 1	18	14,5	114,0	292,0
28391	12 G 1	18	17,4	186,0	472,0	28451	12 G 1	18	17,4	186,0	472,0
28392	18 G 1	18	20,7	284,0	634,0	28452	18 G 1	18	20,7	284,0	634,0
28393	25 G 1	18	24,8	387,0	861,0	28453	25 G 1	18	24,8	387,0	861,0

Continuation ▶

JZ-600-YC-PUR tear and coolant resistant, 1000 V, Cu-screened, EMC-preferred type, meter marking



Part no. Sheath colour black	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
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
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. Sheath colour grey	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
28454	2 x 1,5	16	10,7	64,0	166,0
28455	3 G 1,5	16	11,2	82,0	192,0
28456	4 G 1,5	16	12,3	99,0	246,0
28457	5 G 1,5	16	13,3	123,0	294,0
28458	7 G 1,5	16	16,0	148,0	392,0
28459	12 G 1,5	16	19,6	274,0	599,0
28460	18 G 1,5	16	23,4	386,0	817,0
28461	25 G 1,5	16	28,2	531,0	1261,0
28462	2 x 2,5	14	11,8	110,0	280,0
28463	3 G 2,5	14	12,3	148,0	301,0
28464	4 G 2,5	14	13,4	169,0	352,0
28465	5 G 2,5	14	14,9	220,0	433,0
28466	7 G 2,5	14	17,9	284,0	569,0
28467	12 G 2,5	14	21,9	470,0	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	124,0	310,0
28471	3 G 4	12	15,1	178,0	396,0
28472	4 G 4	12	16,7	234,0	531,0
28473	5 G 4	12	18,6	284,0	704,0
28474	7 G 4	12	20,0	321,0	932,0
28475	3 G 6	10	17,0	245,0	633,0
28476	4 G 6	10	18,7	316,0	742,0
28477	5 G 6	10	20,7	442,0	1117,0
28478	3 G 10	8	19,6	367,0	1131,0
28479	4 G 10	8	21,9	549,0	1357,0
28480	5 G 10	8	24,1	604,0	1646,0
28481	3 G 16	6	23,5	653,0	1397,0
28482	4 G 16	6	26,4	807,0	1880,0
28483	5 G 16	6	28,8	940,0	2721,0

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