

JZ-600-Y-CY UL/CSA flexible, number coded, 1000 V, EMC-preferred

type, meter marking



Technical data

- Special PVC control cables adapted 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 21179
- **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 MOhm x km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 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 special PVC compound type TI2 to DIN VDE 0207-363-3 / DIN EN 50363-3 and class 43 acc. to UL-Std.1581
- 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 TM2, to DIN VDE 0207-363-4-1/DIN EN 50363-4-1, class 43 acc. to UL-Std.1581
- Braided screen of tinned Cu wires, coverage approx. 85%
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1 and class 43 acc. to UL-Std.1581
- Sheath colour black (RAL 9005) or grey (RAL 7001)
- with meter marking

Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations
- UV-resistant (building with black sheath)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B), UL VW-1, CSA FT1

Note

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

JZ-600 UL/CSA

Application

PVC control cable for measuring, monitoring and control purposes in tool machinery, conveyor belts and production lines in machinery, in air conditioning, in foundries and steel 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 (fixed installation, building with black sheath). Is not suitable to be used as direct burial- or as underwater cable. Interference-free transmission of signals and pulses is assured by the high degree of screening.

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. Sheath colour	No.cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
black					
12345	2 x 0,5	20	8,3	41,0	129,0
12346	3 G 0,5	20	8,6	45,0	150,0
12347	4 G 0,5	20	9,4	54,0	170,0
12348	5 G 0,5	20	10,1	66,0	199,0
12349	7 G 0,5	20	12,1	79,0	235,0
12350	12 G 0,5	20	14,7	137,0	320,0
12351	18 G 0,5	20	17,3	156,0	428,0
12352	25 G 0,5	20	20,6	250,0	503,0
12353	2 x 0,75	19	8,7	46,0	143,0
12354	3 G 0,75	19	9,0	57,0	155,0
12355	4 G 0,75	19	9,9	63,0	190,0
12356	5 G 0,75	19	10,8	76,0	228,0
12357	7 G 0,75	19	13,0	100,0	323,0
12358	12 G 0,75	19	15,8	175,0	410,0
12359	18 G 0,75	19	17,9	240,0	560,0
12360	25 G 0,75	19	22,8	306,0	730,0
12361	2 x 1	18	9,4	54,0	150,0
12362	3 G 1	18	9,8	64,0	163,0
12363	4 G 1	18	10,8	76,0	200,0
12364	5 G 1	18	12,1	89,0	239,0
12365	7 G 1	18	14,5	114,0	289,0
12366	12 G 1	18	17,4	186,0	464,0
12367	18 G 1	18	20,7	284,0	628,0
12368	25 G 1	18	24,8	387,0	855,0
12369	2 x 1,5	16	10,2	64,0	162,0
12370	3 G 1,5	16	10,9	82,0	187,0
12371	4 G 1,5	16	12,2	99,0	240,0

Part no. Sheath colour	No.cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
grey					
12410	2 x 0,5	20	8,3	41,0	129,0
12411	3 G 0,5	20	8,6	45,0	150,0
12412	4 G 0,5	20	9,4	54,0	170,0
12413	5 G 0,5	20	10,1	66,0	199,0
12414	7 G 0,5	20	12,1	79,0	235,0
12415	12 G 0,5	20	14,7	137,0	320,0
12416	18 G 0,5	20	17,3	156,0	428,0
12417	25 G 0,5	20	20,6	250,0	503,0
12418	2 x 0,75	19	8,7	46,0	143,0
12419	3 G 0,75	19	9,0	57,0	155,0
12420	4 G 0,75	19	9,9	63,0	190,0
12421	5 G 0,75	19	10,8	76,0	228,0
12422	7 G 0,75	19	13,0	100,0	323,0
12423	12 G 0,75	19	15,8	175,0	410,0
12424	18 G 0,75	19	17,9	240,0	560,0
12425	25 G 0,75	19	22,8	306,0	730,0
12426	2 x 1	18	9,4	54,0	150,0
12427	3 G 1	18	9,8	64,0	163,0
12428	4 G 1	18	10,8	76,0	200,0
12429	5 G 1	18	12,1	89,0	239,0
12430	7 G 1	18	14,5	114,0	289,0
12431	12 G 1	18	17,4	186,0	464,0
12432	18 G 1	18	20,7	284,0	628,0
12433	25 G 1	18	24,8	387,0	855,0
12434	2 x 1,5	16	10,2	64,0	162,0
12435	3 G 1,5	16	10,9	82,0	187,0
12436	4 G 1,5	16	12,2	99,0	240,0

Continuation ►

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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
12372	5 G 1,5	16	13,3	123,0	289,0
12373	7 G 1,5	16	16,0	148,0	383,0
12374	12 G 1,5	16	19,6	274,0	592,0
12375	18 G 1,5	16	23,4	386,0	806,0
12376	25 G 1,5	16	28,2	531,0	1241,0
12377	2 x 2,5	14	11,5	110,0	272,0
12378	3 G 2,5	14	12,2	148,0	298,0
12379	4 G 2,5	14	13,4	169,0	345,0
12380	5 G 2,5	14	14,9	220,0	427,0
12381	7 G 2,5	14	17,9	284,0	561,0
12382	12 G 2,5	14	21,9	470,0	857,0
12383	18 G 2,5	14	26,1	572,0	1355,0
12384	25 G 2,5	14	31,9	740,0	1995,0
12385	2 x 4	12	14,3	124,0	306,0
12386	3 G 4	12	15,1	178,0	391,0
12387	4 G 4	12	16,7	234,0	527,0
12388	5 G 4	12	18,6	284,0	700,0
12389	7 G 4	12	20,0	321,0	920,0
12390	3 G 6	10	17,0	245,0	629,0
12391	4 G 6	10	18,7	316,0	731,0
12392	5 G 6	10	20,7	442,0	1105,0
12393	7 G 6	10	23,0	530,0	1465,0
12394	3 G 10	8	19,6	367,0	1125,0
12395	4 G 10	8	21,9	549,0	1345,0
12396	5 G 10	8	24,1	604,0	1635,0
12397	7 G 10	8	26,8	820,0	2210,0
12398	3 G 16	6	23,5	653,0	1395,0
12399	4 G 16	6	26,4	807,0	1870,0
12400	5 G 16	6	28,8	940,0	2720,0
12401	7 G 16	6	31,9	1345,0	3213,0
12402	3 G 25	4	28,0	920,0	2465,0
12403	4 G 25	4	32,5	1169,0	2750,0
12404	5 G 25	4	35,7	1420,0	3490,0
12405	7 G 25	4	39,0	1921,0	4980,0

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
12437	5 G 1,5	16	13,3	123,0	289,0
12438	7 G 1,5	16	16,0	148,0	383,0
12439	12 G 1,5	16	19,6	274,0	592,0
12440	18 G 1,5	16	23,4	386,0	806,0
12441	25 G 1,5	16	28,2	531,0	1241,0
12442	2 x 2,5	14	11,5	110,0	272,0
12443	3 G 2,5	14	12,2	148,0	298,0
12444	4 G 2,5	14	13,4	169,0	345,0
12445	5 G 2,5	14	14,9	220,0	427,0
12446	7 G 2,5	14	17,9	284,0	561,0
12447	12 G 2,5	14	21,9	470,0	857,0
12448	18 G 2,5	14	26,1	572,0	1355,0
12449	25 G 2,5	14	31,9	740,0	1995,0
12450	2 x 4	12	14,3	124,0	306,0
12451	3 G 4	12	15,1	178,0	391,0
12452	4 G 4	12	16,7	234,0	527,0
12453	5 G 4	12	18,6	284,0	700,0
12454	7 G 4	12	20,0	321,0	920,0
12455	3 G 6	10	17,0	245,0	629,0
12456	4 G 6	10	18,7	316,0	731,0
12457	5 G 6	10	20,7	442,0	1105,0
12458	7 G 6	10	23,0	530,0	1465,0
12459	3 G 10	8	19,6	367,0	1125,0
12460	4 G 10	8	21,9	549,0	1345,0
12461	5 G 10	8	24,1	604,0	1635,0
12462	7 G 10	8	26,8	820,0	2210,0
12463	3 G 16	6	23,5	653,0	1395,0
12464	4 G 16	6	26,4	807,0	1870,0
12465	5 G 16	6	28,8	940,0	2720,0
12466	7 G 16	6	31,9	1345,0	3213,0
12467	3 G 25	4	28,0	920,0	2465,0
12468	4 G 25	4	32,5	1169,0	2750,0
12469	5 G 25	4	35,7	1420,0	3490,0
12470	7 G 25	4	39,0	1921,0	4980,0

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