JZ-600-Y-CY / OZ-600-Y-CY

EMC-preferred type, with inner sheath

TECHNICAL DATA

PVC control and connection cable in alignment with DIN VDE 0262, DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -15°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U_0/U 600/1000 V
Test voltage core/core	4000 V
Breakdown voltage	8000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type TI2)
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer, x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- Inner sheath: PVC
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation, weathering effects
- largely resistant to: oil, for details, see "Technical Information"
- for outdoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals: EAC

APPLICATION

Used as a connection and control cable in machine tools, assembly lines and conveyor belts, production lines, plant construction, heating and air-conditioning technology and in smelters and steel mills. Suitable for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, as well as outdoors (fixed installation). May not be laid directly in soil (suitable for direct burial starting with an outer diameter of 20 mm) or water. Due to its extended nominal voltage range and good UV resistance, this cable is primarily used in Southern Europe, Arabic, Asian and Eastern countries. Due to the high screening density, interference-free transmission of signals or pulses is ensured. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11464	2 x 0.5	20	8.4	41.0	115.0
11465	3 G 0.5	20	8.8	45.0	127.0
11466	4 G 0.5	20	9.3	54.0	149.0
11467	5 G 0.5	20	10.1	66.0	169.0
11469	7 G 0.5	20	10.9	79.0	230.0
11472	12 G 0.5	20	14.0	137.0	386.0
11475	18 G 0.5	20	16.3	156.0	428.0
11478	25 G 0.5	20	19.0	250.0	693.0
11489	2 x 0.75	19	8.9	46.0	128.0
11490	3 G 0.75	19	9.3	57.0	143.0
11491	4 G 0.75	19	10.1	63.0	164.0
11492	5 G 0.75	19	11.0	76.0	198.0
11494	7 G 0.75	19	11.9	100.0	232.0
11498	12 G 0.75	19	15.4	175.0	360.0
11501	18 G 0.75	19	18.0	240.0	562.0
11504	25 G 0.75	19	21.9	306.0	729.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11516	2 x 1	18	9.2	54.0	146.0
11517	3 G 1	18	9.8	64.0	165.0
11518	4 G 1	18	10.4	76.0	204.0
11519	5 G 1	18	11.6	89.0	224.0
11521	7 G 1	18	12.3	114.0	379.0
11525	12 G 1	18	16.2	186.0	430.0
11528	18 G 1	18	18.9	284.0	636.0
11532	25 G 1	18	22.8	387.0	837.0
11546	2 x 1.5	16	10.4	64.0	175.0
11547	3 G 1.5	16	11.3	82.0	213.0
11548	4 G 1.5	16	12.0	99.0	247.0
11549	5 G 1.5	16	13.1	123.0	300.0
11551	7 G 1.5	16	14.6	148.0	364.0
11556	12 G 1.5	16	18.7	274.0	668.0
11559	18 G 1.5	16	22.8	386.0	844.0
11563	25 G 1.5	16	26.2	531.0	1356.0

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JZ-600-Y-CY / OZ-600-Y-CY

EMC-preferred type, with inner sheath

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11574	2 x 2.5	14	12.0	110.0	241.0
11575	3 G 2.5	14	12.6	148.0	266.0
11576	4 G 2.5	14	13.9	169.0	351.0
11577	5 G 2.5	14	15.4	220.0	434.0
11578	7 G 2.5	14	16.6	284.0	517.0
11580	12 G 2.5	14	22.8	470.0	862.0
11582	18 G 2.5	14	26.2	572.0	1236.0
11584	25 G 2.5	14	30.6	740.0	1659.0
11590	2 x 4	12	13.4	124.0	306.0
11591	3 G 4	12	14.7	178.0	444.0
11592	4 G 4	12	15.9	234.0	489.0
11593	5 G 4	12	17.6	284.0	623.0
11594	7 G 4	12	19.0	385.0	775.0
11596	12 G 4	12	25.5	581.0	1244.0
11024506	12 x 4	12	25.5	581.0	1244.0
11597	2 x 6	10	15.2	176.0	433.0
11598	3 G 6	10	16.2	245.0	572.0
11599	4 G 6	10	17.8	316.0	673.0
11600	5 G 6	10	19.4	442.0	841.0
11601	7 G 6	10	22.2	530.0	1078.0
11602	2 x 10	8	18.6	260.0	640.0
11603	3 G 10	8	20.0	367.0	820.0
11604	4 G 10	8	22.7	549.0	979.0
11605	5 G 10	8	24.8	604.0	1207.0
11606	7 G 10	8	26.8	820.0	2210.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11607	2 x 16	6	23.2	491.0	1150.0
11608	3 G 16	6	24.5	653.0	1395.0
11609	4 G 16	6	26.5	807.0	1426.0
11610	5 G 16	6	29.3	940.0	2720.0
11611	7 G 16	6	32.0	1345.0	3213.0
11612	3 G 25	4	29.0	920.0	1810.0
11613	4 G 25	4	32.0	1169.0	2261.0
11614	5 G 25	4	35.3	1420.0	2773.0
11615	7 G 25	4	38.6	1921.0	4980.0
11616	3 G 35	2	31.9	1250.0	2400.0
11617	4 G 35	2	35.0	1680.0	2973.0
11618	5 G 35	2	38.6	2020.0	3548.0
11619	3 G 50	1	37.0	1887.0	3120.0
11620	4 G 50	1	40.8	2370.0	3873.0
11621	5 G 50	1	45.2	2880.0	4634.0
11622	3 G 70	2/0	41.5	2516.0	4220.0
11623	4 G 70	2/0	45.9	3257.0	5546.0
11624	5 G 70	2/0	50.8	4032.0	6410.0
11625	3 G 95	3/0	47.4	3086.0	5240.0
11626	4 G 95	3/0	52.3	4060.0	6538.0
11627	5 G 95	3/0	57.4	5244.0	7812.0
11628	3 G 120	4/0	52.2	4176.0	7210.0
11629	4 G 120	4/0	56.9	5231.0	7994.0
13137	4 G 150	300 kcmil	63.3	7760.0	10305.0
13147	4 G 185	350 kcmil	69.4	8104.0	12154.0