JZ-603-CY / OZ-603-CY

Multi-standard control cable, oil resistant, EMC-preferred type



TECHNICAL DATA

PVC control cable acc. to UL-Std. 758 (AWM) Style 2587, CSA-Std. C22.2 No. 210 - AWM I/II A/B, 2 - 50 core(s): acc. to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51; 61 core(s): in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	HAR flexible -5°C to +70°C HAR fixed -40°C to +70°C UL (AWM) flexible -5°C to +90°C UL (AWM) fixed -40°C to +90°C
Nominal voltage	HAR AC U_0/U 300/500 V UL (AWM) AC 600 V
Test voltage core/core	3000 V
Breakdown voltage	6000 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: Special-PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type TI2), UL-Std. 1581
- 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 (JZ), 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: oil-resistant special PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM5), UL-Std. 1581
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- resistant to: oil
- 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, UL-VW-1, CSA FT1
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404, UL-Std. 1581 Tab. 50.182
- certifications and approvals:
  HAR
  EAC

APPLICATION

Multi-standard control cable especially for use in export-oriented machine and plant construction; for flexible application with medium mechanical stress and free movement without tensile stress and without forced movement guidance in dry, damp and wet rooms, but not outdoors. 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-weight kg/km	Weight kg/km, approx.
83709	2 x 0.5	20	8.0	41.0	90.0
83720	3 G 0.5	20	8.4	45.0	105.0
83721	4 G 0.5	20	8.9	54.0	123.0
83722	5 G 0.5	20	9.7	66.0	147.0
83723	7 G 0.5	20	11.2	79.0	195.0
83724	12 G 0.5	20	13.7	137.0	276.0
83725	18 G 0.5	20	15.5	156.0	418.0
83726	25 G 0.5	20	18.4	250.0	504.0
83727	34 G 0.5	20	20.7	316.0	632.0
83728	41 G 0.5	20	22.6	348.0	750.0
83729	50 G 0.5	20	24.5	407.0	968.0
83730	61 G 0.5	20	25.9	520.0	1068.0
83710	2 x 0.75	19	8.5	46.0	101.0
83731	3 G 0.75	19	8.9	57.0	127.0
83732	4 G 0.75	19	9.7	63.0	155.0
83733	5 G 0.75	19	10.4	76.0	180.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83734	7 G 0.75	19	12.2	100.0	225.0
83735	12 G 0.75	19	14.7	175.0	326.0
83736	18 G 0.75	19	17.2	240.0	457.0
83737	25 G 0.75	19	20.1	306.0	635.0
83738	34 G 0.75	19	23.1	346.0	805.0
83739	41 G 0.75	19	24.7	403.0	908.0
83740	50 G 0.75	19	27.0	470.0	1155.0
83741	61 G 0.75	19	28.6	550.0	1400.0
83711	2 x 1	18	8.8	54.0	113.0
83742	3 G 1	18	9.4	64.0	144.0
83743	4 G 1	18	10.0	76.0	178.0
83744	5 G 1	18	11.0	89.0	205.0
83745	7 G 1	18	12.9	114.0	263.0
83746	12 G 1	18	15.5	186.0	424.0
83747	18 G 1	18	17.9	284.0	560.0
83748	25 G 1	18	21.0	387.0	760.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83749	34 G 1	18	24.1	500.0	945.0
83750	41 G 1	18	25.9	578.0	1151.0
83751	50 G 1	18	28.5	681.0	1300.0
83752	61 G 1	18	30.3	710.0	1500.0
83712	2 x 1.5	16	10.0	64.0	144.0
83753	3 G 1.5	16	10.5	82.0	160.0
83754	4 G 1.5	16	11.4	99.0	210.0
83755	5 G 1.5	16	12.7	123.0	240.0
83756	7 G 1.5	16	14.9	148.0	305.0
83757	12 G 1.5	16	17.7	274.0	482.0
83758	18 G 1.5	16	20.8	386.0	611.0
83759	25 G 1.5	16	24.8	531.0	950.0
83760	34 G 1.5	16	28.4	671.0	1200.0
83761	41 G 1.5	16	30.9	840.0	1400.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83762	50 G 1.5	16	33.3	997.0	1665.0
83763	61 G 1.5	16	35.2	1120.0	1852.0
83713	2 x 2.5	14	11.4	110.0	189.0
83764	3 G 2.5	14	12.0	148.0	244.0
83765	4 G 2.5	14	13.3	169.0	296.0
83766	5 G 2.5	14	14.8	220.0	367.0
83767	7 G 2.5	14	17.3	284.0	478.0
83768	12 G 2.5	14	20.8	470.0	622.0
83769	18 G 2.5	14	24.6	572.0	1010.0
83770	25 G 2.5	14	29.4	740.0	1375.0
83771	34 G 2.5	14	33.2	1179.0	1893.0
83772	50 G 2.5	14	38.7	1660.0	2666.0
83773	61 G 2.5	14	41.0	1992.0	3077.0

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