JZ-603 / OZ-603

Multi-standard control cable, oil resistant



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
Minimum bending radius	flexible 7.5x Outer-Ø fixed 4x 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), 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
- 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.

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.
83704	2 x 0.5	20	5.8	10.8	52.0
83650	3 G 0.5	20	6.1	16.1	63.0
83651	4 G 0.5	20	6.6	21.5	69.0
83652	5 G 0.5	20	7.3	27.0	87.0
83653	7 G 0.5	20	8.7	37.6	119.0
83654	12 G 0.5	20	10.8	64.5	198.0
83655	18 G 0.5	20	12.9	97.0	266.0
83656	25 G 0.5	20	15.4	134.5	380.0
83657	34 G 0.5	20	17.7	182.8	508.0
83658	41 G 0.5	20	19.2	220.4	594.0
83659	50 G 0.5	20	21.1	268.8	715.0
83660	61 G 0.5	20	22.5	328.0	840.0
83705	2 x 0.75	19	6.3	14.4	66.0
83661	3 G 0.75	19	6.7	22.0	76.0
83662	4 G 0.75	19	7.2	29.0	85.0
83663	5 G 0.75	19	8.1	36.0	113.0
83664	7 G 0.75	19	9.8	50.0	144.0
83665	12 G 0.75	19	11.8	86.0	245.0
83666	18 G 0.75	19	14.4	130.0	327.0
83667	25 G 0.75	19	17.1	180.0	466.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83668	34 G 0.75	19	19.7	245.0	626.0
83669	41 G 0.75	19	21.3	296.0	747.0
83670	50 G 0.75	19	23.6	360.0	896.0
83671	61 G 0.75	19	25.2	439.0	1070.0
83706	2 x 1	18	6.6	19.2	70.0
83672	3 G 1	18	7.0	29.0	88.0
83673	4 G 1	18	7.6	39.0	99.0
83674	5 G 1	18	8.6	48.0	132.0
83675	7 G 1	18	10.3	67.0	170.0
83676	12 G 1	18	12.7	115.0	285.0
83677	18 G 1	18	15.1	173.0	405.0
83678	25 G 1	18	18.0	240.0	570.0
83679	34 G 1	18	20.9	326.0	742.0
83680	41 G 1	18	22.7	394.0	885.0
83681	50 G 1	18	24.8	480.0	1071.0
83682	61 G 1	18	26.7	586.0	1265.0
83707	2 x 1.5	16	7.6	28.8	91.0
83683	3 G 1.5	16	8.3	43.0	110.0
83684	4 G 1.5	16	9.0	58.0	141.0
83685	5 G 1.5	16	10.1	72.0	167.0

Continued on next page

05.03.2024 / We reserve the right to make technical changes; the imprint in the image is purely exemplary

JZ-603 / OZ-603

Multi-standard control cable, oil resistant

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83686	7 G 1.5	16	12.3	101.0	225.0
83687	12 G 1.5	16	14.9	173.0	361.0
83688	18 G 1.5	16	18.0	259.0	518.0
83689	25 G 1.5	16	21.4	360.0	730.0
83690	34 G 1.5	16	25.0	490.0	945.0
83691	41 G 1.5	16	27.1	591.0	1135.0
83692	50 G 1.5	16	29.8	720.0	1381.0
83693	61 G 1.5	16	31.8	878.0	1640.0
83708	2 x 2.5	14	9.2	48.0	125.0
83694	3 G 2.5	14	9.9	72.0	169.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
83695	4 G 2.5	14	10.8	96.0	209.0
83696	5 G 2.5	14	12.1	120.0	256.0
83697	7 G 2.5	14	14.5	168.0	340.0
83698	12 G 2.5	14	17.8	288.0	579.0
83699	18 G 2.5	14	21.6	432.0	851.0
83700	25 G 2.5	14	25.6	600.0	1175.0
83701	34 G 2.5	14	29.8	816.0	1529.0
83702	50 G 2.5	14	35.1	1200.0	2290.0
83703	61 G 2.5	14	37.2	1464.0	2724.0

05.03.2024 / We reserve the right to make technical changes; the imprint in the image is purely exemplary