JZ-500-ORANGE / OZ-500-ORANGE

to label exempted power circuits, particularly interlocking power circuits



TECHNICAL DATA

PVC control cable in alignment with 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 300/500 V
Test voltage core/core	4000 V
Breakdown voltage	8000 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, compound type Z 7225
- Core identification acc. to DIN VDE 0293-334, orange cores with consecutive labeling in black digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, x = without protective conductor (OZ)
- Cores stranded with optimal lay lengths
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: orange (RAL 2003)
- Length marking: in metres

PROPERTIES

- largely resistant to: oil, for details, see "Technical Information"
- 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
- certifications and approvals: EAC VDE-Reg.-No. 7032, valid for temperature range up to +70°C

APPLICATION

Used for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, however, not suitable for outdoor use as a control cable acc. to EN 60204-1 or VDE 0113-1. According to this standard, it is recommended that insulated conductors of interlocking power circuits supplied by an external power supply that remain live when the main switch is turned off, are marked in orange.

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.
10537	2 x 1	18	5.6	19.2	60.0
10538	3 G 1	18	6.1	29.0	72.0
10539	3 x 1	18	6.1	29.0	72.0
10540	4 G 1	18	6.6	38.4	86.0
10541	4 x 1	18	6.6	38.4	86.0
10542	5 G 1	18	7.5	48.0	104.0
10544	2 x 1.5	16	6.4	29.0	70.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10545	3 G 1.5	16	6.8	43.0	90.0
10546	4 G 1.5	16	7.6	58.0	109.0
10547	5 G 1.5	16	8.3	72.0	131.0
10747	3 G 2.5	14	8.3	72.0	148.0
10748	4 G 2.5	14	9.2	96.0	178.0
10749	5 G 2.5	14	10.1	120.0	221.0

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