

Control Cables

XLPE Insulation and PVC Jacketed Cables



Document 1003

Applications

- Control cables in energy panels of power centers and industrial buildings etc.
- For internal, external or underground use
- 0.6/1.0 kV rating
- Where maximum conductor temperature does not exceed 90°C during continuous normal operation and 250°C in short circuit



Standards

- SII 1516-1
- IEC 60502-1
- All cables are approved by the Standards Institute of Israel – see certifications
- Cable code: N2XY

Construction

Conductor	Solid copper (class 1) according to IEC 60228.
Insulation	XLPE. The wall thickness and the core color identification are in accordance with SII 1516-1 as follows: <ul style="list-style-type: none"> • Any color can be used, except blue - reserved for neutral and yellow/green - reserved for grounding • Single color cores are marked with numbers or letters or combined numbers and letters according to SI 1516-1
Cabling	All cores are stranded together. A non-hygroscopic non-metallic tape is applied over the cores assembly
Jacket	PVC compound, green and marked "Control Cable"

Part Numbers, Electrical and Mechanical Properties

Catalog Number	Structure	Nominal diameter	Nominal Cable Weight	Conductor Resistance @ 20°C	Current carrying capacity @ 30°C	
					In air	Buried
	No. x sqmm	mm	kg/km	Ω/km	A	A
1180704	7x1.5	13	260	12.1	16	18
1181004	10x1.5	15	385		13	15
1181204	12x1.5	16	435		13	14
1181404	14x1.5	17	470		12	14
1181904	19x1.5	18	590		11	12
1182104	21x1.5	19	660		10	12
1182404	24x1.5	21	785		10	11
1183004	30x1.5	22	920		9	10
1184004	40x1.5	25	1180		9	10

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Catalog Number	Structure	Nominal diameter	Nominal Cable Weight	Conductor Resistance @ 20°C	Current carrying capacity @ 30°C	
					In air	Buried
	No. x sqmm	mm	kg/km	Ω/km	A	A
1220704	7x2.5	14	350	7.41	21	24
1221004	10x2.5	17	525		18	20
1221204	12x2.5	18	590		17	19
1221404	14x2.5	20	650		16	18
1221904	19x2.5	21	820		15	16
1222104	21x2.5	22	910		15	14
1222404	24x2.5	24	1100		13	13
1223004	30x2.5	25	1280		12	13
1224004	40x2.5	28	1650		12	13

Additional properties

- Voltage rating: 0.6/1 kV;
- Maximum conductor temperature: 90°C
- Maximum conductor temperature at short circuit: 250°C
- Minimum bending radius: 12 x Outer sheath diameter
- Minimum installation temperature: -5°C
- Service temperature: -20°C - 90°C

Yair Duchovni Cables reserves the right to modify the products described in this data sheet without prior notice

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