

ELFLEX

Cables for welding machines

PVC insulated cables for welding machines.



TECHNICAL DATA

Nominal tension	450/750 V
Conditions of employment	For secondary side connection of powers sources for hand or automatic metal-arc welding for secondary voltage typical of welding equipment.
Type of electrical conductor	Flexible red copper
Type of outer sheath	TM2 (EN 50363-4-1)
Color of the outer sheath	Black
Operating temperature	-20° C +70° C
Short circuit temperature	+160° C
Test voltage	2500 V
Cable marking	ELFLEX (sect) mm ² CE
Minimum radius of curvature	For cables with diameter up to 12 mm: 5 times the max. outer diameter in case of non-constrained motion and 4 times in case of fixed installation For cables with greater diameter: 6 times the max. outer diameter in case of non-constrained motion and 5 times in case of fixed installation.

REFERENCES STANDARDS

Self-extinguishing	EN 60332-1-2; IEC 60332-1-2
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DIMENSIONS

Nominal section	Wires max diameter	Conductor diameter	Insulation thickness	Diametro isolamento $\pm 0,1$	Minimum average external diameter	Medium outer diameter $\pm 0,2$	Electrical resistance 20°C	Approximate weight	Fattore CU
(Nxmm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω /km)	(kg/km)	(kg/km)
1x10,00	0,31	3,84	1,80	N/A	N/A	7,6	2,0600	N/A	96,0000
1x16,00	0,31	5,40	1,80	N/A	N/A	8,7	1,2800	N/A	153,6000
1x25,00	0,31	6,50	1,90	N/A	N/A	10,3	0,8500	N/A	240,0000
1x35,00	0,31	7,60	2,10	N/A	N/A	12,2	0,5800	N/A	336,0000
1x50,00	0,31	9,30	2,20	N/A	N/A	14,1	0,4100	N/A	480,0000
1x70,00	0,31	10,80	2,40	N/A	N/A	15,6	0,2800	N/A	672,0000
1x95,00	0,31	12,50	2,64	N/A	N/A	17,8	0,2100	N/A	912,0000
1x120,00	0,31	N/A	2,80	N/A	N/A	20,1	0,1700	N/A	1.152,0000

CORES IDENTIFICATION

Cores number	Insulation colour sequence
1	NA

Refer to the CEI EN 50565 standard series as a guide to the use of cables with nominal voltage not exceeding 450/750 V (U0/U) and to the CEI 20-92 standard as a guide for the handling and storage of wooden reels for cables electrical.

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