

ELFLEX

Cables for welding machines

PVC insulated cables for welding machines.



Technical data

Nominal voltage	450/750 V
Applications/Usage conditions	For secondary side connection of powers sources for hand or automatic metal-arc welding for secondary voltage typical of welding equipment.
Conductor	Flexible red copper
Sheath type	TM2 (EN 50363-4-1)
Sheath colour	Black
Operating temperatures	-20° C +70° C
Short circuit temperature	160° C
Test voltage	2500 V
Cable markings	ELFLEX (sect) mm ² CE
Minimum bending radius	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.

Standard references

Self-Extinguishing	EN 60332-1-2; IEC 60332-1-2
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Dimensions

Cross section (Nxmm ²)	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium outer diameter ± 0,2 (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
1x10,00	0,310	3,84	1,80	N/A	N/A	7,6	2,0600	N/A	96,00
1x16,00	0,310	5,40	1,80	N/A	N/A	8,7	1,2800	N/A	153,60
1x25,00	0,310	6,50	1,90	N/A	N/A	10,3	0,8500	N/A	240,00
1x35,00	0,310	7,60	2,10	N/A	N/A	12,2	0,5800	N/A	336,00
1x50,00	0,310	9,30	2,20	N/A	N/A	14,1	0,4100	N/A	480,00
1x70,00	0,310	10,80	2,40	N/A	N/A	15,6	0,2800	N/A	672,00
1x95,00	0,310	12,50	2,64	N/A	N/A	17,8	0,2100	N/A	912,00
1x120,00	0,310	N/A	2,80	N/A	N/A	20,1	0,1700	N/A	1.152,00

Please refer to the standard series EN 50565 as guide to use for cables with a rated voltage not exceeding 450/750 V - (U0/U) and CEI 20-92 as guide for the handling and warehousing of wooden drums for electric cables.