

LEV 160 HALOGEN FREE

Rubber cables

Flexible, single-core, rubber insulated sheath cables, based on vinyl acetate, for indoor networks. Compound with a vinyl acetate base, suitable for the insulation of conductors having no sheath. Low halogenic content rubber, with high oxygen index. No-flame propagation cable, excellent mechanical and oil resistance.



Technical data

Nominal voltage	300/500 V sect. 0,35-1,00 450/750 V sect. > 1,5
Applications/Usage conditions	Cable produced with a low-halogenic compound and high oxygen index and, therefore, against flame propagation. With an excellent mechanical varnishes and oil resistance it is also used in the electric motors, in the transformers, in the condenser, in the household electrical appliances, in the lamps, in the resistors and in some particulars of the cars. Used in electric motors.
Conductor	Flexible tinned copper
Insulation type	G19
Insulation tensile strength	≥ 9 N/mm ²
Insulation elongation at break	≥ 150%
Sheath colour	On demand (one or two colours)
Operating temperatures	-40° C +160° C (not continuous)
Short circuit temperature	200° C on the conductor (max 5 sec.)
Test voltage	2000 V
Cable markings	ELETTRO BRESCIA (section) mm ² LEV 160 HALOGEN FREE
Minimum bending radius	6 times the max outer diameter.
Notes	MECHANICAL PROPERTIES AFTER AGEING (AIR OVEN 240 h, 140° C): Tensile strength: -25% max of the value before ageing Elongation: -25% max of the value before ageing HOT SET TEST (MANDREL IN AIR OVEN 12 h, 140° C): Mandrel diameter: Same diameter of the cable Results: No cracks

Standard references

Conductor	EN 60228; IEC 60228
Self-Extinguishing	EN 60332-1-2; IEC 60332-1-2

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 ± 0,1 (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
1x0,50	0,210	0,87	0,60	N/A	N/A	2,1	40,1000	8,80	4,80
1x0,75	0,210	1,07	0,70	N/A	N/A	2,4	26,7000	12,10	7,20
1x1,00	0,210	1,23	0,70	N/A	N/A	2,5	20,0000	14,40	9,60
1x1,50	0,260	1,52	0,70	N/A	N/A	2,8	13,7000	19,00	14,40
1x2,50	0,260	1,96	0,70	N/A	N/A	3,4	8,2100	30,20	24,00
1x4,00	0,310	2,44	0,80	N/A	N/A	4,2	5,0900	47,20	38,40
1x6,00	0,310	2,96	0,80	N/A	N/A	4,8	3,3900	65,60	57,60

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.