

HT 105° C

PVC cables

Flexible single-core PVC insulated electric cables, sheath-less for in-house networks with a maximum continuous temperature of 105° C.



Technical data

Nominal voltage	300/500 V sect. 0,50-1,00 450/750 V sect. > 1,5
Applications/Usage conditions	For internal networks, not suitable for permanent installations in distribution systems. Not usable with temperatures higher than 105° C.
Conductor	Flexible red copper
Insulation type	TI3 (EN 50363-3)
Sheath colour	On demand (one or two colours)
Operating temperatures	+5° C +105° C
Short circuit temperature	160° C on the conductor (max 5 sec.)
Test voltage	2000 V
Cable markings	Elettro Brescia HT 105° C
Minimum bending radius	6 times the max outer diameter.

Standard references

Conductor	EN 60228; IEC 60228
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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)
1x0,50	0,210	0,87	0,60	N/A	N/A	2,2	39,0000	8,00	4,80
1x0,75	0,210	1,07	0,60	N/A	N/A	2,4	26,0000	12,00	7,20
1x1,00	0,210	1,23	0,60	N/A	N/A	2,5	19,5000	14,00	9,60
1x1,50	0,260	1,15	0,70	N/A	N/A	2,7	13,3000	20,00	14,40
1x2,50	0,260	1,51	0,80	N/A	N/A	3,2	7,9800	32,00	24,00
1x4,00	0,310	2,44	0,80	N/A	N/A	4,1	4,9500	48,00	38,40
1x6,00	0,310	2,96	0,80	N/A	N/A	4,7	3,3000	67,00	57,60
1x10,00	0,410	3,99	1,00	N/A	N/A	6,2	1,9100	119,00	96,00
1x16,00	0,410	5,20	1,00	N/A	N/A	7,4	1,2100	187,00	153,60
1x25,00	0,410	6,50	1,20	N/A	N/A	9,1	0,7800	265,00	240,00
1x35,00	0,410	7,70	1,20	N/A	N/A	10,3	0,5540	370,00	336,00

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.