

Rubber single and multicore cables for low-voltage


Multicore, flexible power cables, rubber insulated, under mean rubber sheath, with operating temperature of 90° C on the conductor. Rated voltage U₀/U 300/500 V.



CEI 20-19 CENELEC HD 22

Nominal section	Max. diameter of the conductor wires	Insulator mean thickness	Sheath mean thickness	Outer diameter min.	Outer diameter max.	Cable approximate weight	Max. electrical resistance at 20° C
n° x mm ²	mm	mm	mm	mm	mm	Kg/Km	Ohm/Km
2 x 0,75	0,21	0,6	0,8	5,7	7,4	58	26,7
2 x 1	0,21	0,6	0,9	6,1	8	69	20,0
2 x 1,5	0,26	0,8	1,0	7,6	9,8	100	13,7
2 x 2,5	0,26	0,9	1,1	9	11,5	145	8,21
2x4	0,31	1	1,2	10,60	13,70	188	5,09
3 G 0,75	0,21	0,6	0,9	6,2	8,1	72	26,7
3 G 1	0,21	0,6	0,9	6,5	8,5	83	20,0
3 G 1,5	0,26	0,8	1,0	8	10,4	125	13,7
3 G 2,5	0,26	0,9	1,1	9,6	12,4	175	8,21
3 G 4	0,31	1	1,2	11,3	14,5	217	5,09
3 G 6	0,31	1	1,4	12,8	16,3	283	3,39
4 G 0,75	0,21	0,6	0,9	6,8	8,8	90	26,7
4 G 1	0,21	0,6	0,9	7,1	9,3	100	20,0
4 G 1,5	0,26	0,8	1,1	9	11,6	150	13,7
4 G 2,5	0,26	0,9	1,2	10,7	13,8	220	8,21
4 G 4	0,31	1	1,3	12,7	16,2	271	5,09
4 G 6	0,31	1	1,5	14,2	18,1	375	3,39
5 G 0,75	0,21	0,6	1,0	7,6	9,9	105	26,7
5 G 1	0,21	0,6	1,0	8	10,3	120	20,0
5 G 1,5	0,26	0,8	1,1	9,8	12,7	180	13,7
5 G 2,5	0,26	0,9	1,3	11,9	15,3	260	8,21
5 G 4	0,31	1	1,4	14,60	18,60	358	5,09

N.B.: upon customer's request we can supply you with the special version for flat-irons in annealed copper, both tinned and not tinned.

Allowable currents for rubber insulated cables:

Nominal section of conductor	Allowable current With rubber insulation	
	Unipolar	Triple-pole
mm ²		
0,75	6	6
1	10	10
1,5	16	16
2,5	25	20
4	32	25
6	40	-

Remarks: These values apply in most cases. Further information are to be sought for the unusual cases, e. g.:

- 1 if the room temperatures are too high, that is to say above 30° C.
- 2 for very long cables.
- 3 in presence of poor ventilation.
- 4 when the cables are used for the others purposes, for ex. inner wiring harness of a device.

Applications:

for general use in domestic rooms, in the kitchen, offices and for power supply of portable devices which are subject to slight mechanical stresses (for ex. aspirators, kitchen, utensils, welding, irons, toasters). It is not suitable also for: permanent use outdoors, in farm- or industrial workshops or for power supply of tools domestic use.

Conductor:

single copper wire, annealed, not tinned.

Insulation:

EI 7 rubber.

Sheath:

EM 6 rubber.

Marking:

continuous marking:
ELETTROBRESCHIA IEMMEQU <HAR> H05BB-F
on the sheath and/or on the insulating material.

Max. operating temperature:

90° C on the conductor.

Max. temperature in case of short circuit:

(max. duration 5 sec.): 250° C on the conductor.

Min. bending radius:

if the outer diameter of the cable is between 6 and 12 mm: 4 times the max. outer diameter in case of non-constrained motion, and 3 times in case of fixed installation. If the outer diameter is greater than 12 mm: 5 times the max. outer diameter in case of non- constrained motion and 4 times in case of fixed installation.

Max. laying stress:

15 N for mm² of copper total section.

Core colours:

bipolar	blue-brown
triple-pole	yellow/green-blue-brown
Four-pole	yellow/green-brown-black-grey or yellow/green-blue-brown-black
Five-pole	yellow/green-blue-brown-black-grey

Sheath colour:

standard = black.

Other colours can be supplied upon request and for quantities to be agreed.

Elettrobrescia s.p.a.
sede Via Bulloni, 36 - 25040 - Camignone di Passirano (Bs)
Cod. Fisc. - Part. Iva e Reg. Imp. di Brescia N° 02402600981 - REA 446996
Cap. Soc. € 2.500.000,00 - Versati € 850.000,00