

Rubber single and multicore cables for low-voltage


Multicore, flexible power cables for energy, rubber insulated, under mean polychloroprene sheath or other equivalent elastomer sheath, with working temperature of 90° C on the conductor.



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
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	20,2

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

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 suitable also for permanent use outdoors, for ordinary uses and applications.

Conductor:

single copper wire, annealed, not tinned.

Insulation:

EI 7 rubber.

Sheath:

EM 7 rubber.

Marking:

continuous marking:

 ELETTROBRESCHIA IEMMEQU <HAR> H05BN4-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.): 200° C on the conductor.

Min. bending radius:

4 times the max. outer diameter for mobile service, 3 times in case of fixed laying.

Max. laying stress:

15 N for mm² of copper total section.

Core colours:

bipolar	blue-brown
triple-pole	yellow/green-blue-brown

Sheath colour:

standard = black.

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

N.B.: the cable can be supplied upon request also without ground conductor.

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