

Rubber single and multicore cables for low-voltage

 < HAR > **CE H07RN8-F**
Water resistant cables, rubber insulated, under heavy polychloroprene sheath or other equivalent elastomer sheath.
Rated voltage U₀/U 450/750 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
1 x 1,5	0,26	0,8	1,4	5,7	7,1	62	13,0
1 x 2,5	0,26	0,9	1,4	6,3	7,9	79	7,82
1 x 4	0,31	1,0	1,5	7,2	9	110	4,85
1 x 6	0,31	1,0	1,6	7,9	9,8	140	3,23
1 x 10	0,41	1,2	1,8	9,5	11,9	225	1,85
1 x 16	0,41	1,2	1,9	10,8	13,4	285	1,18
1 x 25	0,41	1,4	2,0	12,7	15,8	415	0,757
1 x 35	0,41	1,4	2,2	14,3	17,9	550	0,538
1 x 50	0,41	1,6	2,4	16,5	20,6	780	0,375
1 x 70*	0,51	1,6	2,6	18,6	23,3	1040	0,264
1 x 95*	0,51	1,8	2,8	20,8	26,0	1320	0,200
1 x 120*	0,51	1,8	3,0	22,8	28,6	1690	0,156
1 x 150*	0,51	2,0	3,2	25,2	31,4	2050	0,126
1 x 185*	0,51	2,2	3,4	27,6	34,4	2510	0,103
1 x 240*	0,51	2,4	3,5	30,6	38,4	3120	0,0778
2 x 1	0,21	0,8	1,3	7,7	10	115	20,0
2 x 1,5	0,26	0,8	1,5	8,5	11	140	13,7
2 x 2,5	0,26	0,9	1,7	10,2	13,1	200	8,21
2 x 4	0,31	1,0	1,8	11,8	15,1	275	5,09
2 x 6	0,31	1,0	2,0	13,1	16,8	365	3,39
2 x 10*	0,41	1,2	3,1	17,7	22,6	685	1,95
2 x 16*	0,41	1,2	3,3	20,2	25,7	835	1,24
2 x 25*	0,41	1,4	3,6	24,3	30,7	1220	0,795
3 G 1	0,21	0,8	1,4	8,3	10,7	135	20,0
3 G 1,5	0,26	0,8	1,6	9,2	11,9	170	13,7
3 G 2,5	0,26	0,9	1,8	10,9	14	240	8,21
3 G 4	0,31	1,0	1,9	12,7	16,2	335	5,09
3 G 6	0,31	1,0	2,1	14,1	18	445	3,39
3 G 10*	0,41	1,2	3,3	19,1	24,2	835	1,95
3 G 16*	0,41	1,2	3,5	21,8	27,6	1040	1,24
3 G 25*	0,41	1,4	3,8	26,1	33	1530	0,795
3 G 35*	0,41	1,4	4,1	29,3	37,1	2010	0,565
3 G 50*	0,41	1,6	4,5	34,1	42,9	2830	0,393
3 G 70*	0,51	1,6	4,8	38,4	48,3	3730	0,277
3 G 95*	0,51	1,8	5,3	43,3	54	4740	0,210
4 G 1	0,21	0,8	1,5	9,2	11,9	165	20,0
4 G 1,5	0,26	0,8	1,7	10,2	13,1	205	13,7

4 G 2,5	0,26	0,9	1,9	12,1	15,5	290	8,21
4 G 4	0,31	1,0	2,0	14	17,9	420	5,09
4 G 6	0,31	1,0	2,3	15,7	20	565	3,39
4 G 10*	0,41	1,2	3,4	20,9	26,5	1030	1,95
4 G 16*	0,41	1,2	3,6	23,8	30,1	1290	1,24
4 G 25*	0,41	1,4	4,1	28,9	36,6	1930	0,795
4 G 35*	0,41	1,4	4,4	32,5	41,1	2540	0,565
4 G 50*	0,41	1,6	4,8	37,7	47,5	3580	0,393
4 G 70*	0,51	1,6	5,2	42,7	54	4770	0,277
5 G 1	0,21	0,8	1,6	10,2	13,1	205	20,0
5 G 1,5	0,26	0,8	1,8	11,2	14,4	255	13,7
5 G 2,5	0,26	0,9	2,0	13,3	17	360	8,21
5 G 4*	0,31	1,0	2,2	15,6	19,9	520	5,09
5 G 6*	0,31	1,0	2,5	17,5	22,2	695	3,39
5 G 10*	0,41	1,2	3,6	22,9	29,1	1250	1,95
5 G 16*	0,41	1,2	3,9	26,4	33,3	1590	1,24
5 G 25*	0,41	1,4	4,4	32	40,4	2380	0,795

*Cables manufactured only upon customer's explicit request and according to min. quantities to be agreed.

We manufactured oil resistant cables with ELETTO BRESCIA trade-mark. IMQ <HAR> oil resistant and extra flessibile cables.

Allowable currents for rubber insulated cables:

Nominal section of conductor mm ²	Allowable current With rubber insulation	
	Unipolar	Triple-pole
1	10	10
1,5	16	16
2,5	25	20
4	32	25
6	40	-
10	63	-

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:

water resistant cables they are used in dry or wet environments, outdoors, in the workshops for medium mechanical stresses, for example equipment of industrial, farm-workshops, installations of large water heaters, heating plates, portable Inspection lamps, electrical tools such as drills, disk saws, household electric tools and also motors or conveyable machines in the building yards and in farming machines, etc.: it is also suited to fixed installations, far example on the fronts of temporary buildings and cabins in the building yards; suitable for the harness of building components in lifting devices, machineries etc.

These cables can be used up to 1000 V in a. c. for protected fixed installatio (in ducts or equipment) and also for the connections of motors of lifting devices or similar.

Conductor:

single copper wire, annealed, not tinned.

Insulation:

EI 4 rubber.

Sheath:

EM 2 rubber.

Marking:

continuous marking:

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on the sheath and/or on the insulating material.

Max. operating temperature:

60° C on the conductor.

Max. temperature in case of short circuit:

(max. duration 5 sec.): 200° C on the conductor.

Min. bending radius:

if the outer diameter of the cable is between 8 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-blue-brown-black or yellow/green-brown-black-grey
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.

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

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