

H07RN8-F

Rubber cables

Water resistant cables, rubber insulated, under heavy polychloroprene sheath or other equivalent elastomer sheath.



Technical data

Nominal voltage	450/750 V
Applications/Usage conditions	Use in industrial and agricultural workshops, building sites, for heavy duty applications and supplying industrial and agricultural machines and appliances where cables are subject to medium mechanical stresses (e.g. heating plates, inspection lamps, electric tools such as drills, circular saws, and domestic electric tools) use in dry, humid or moist rooms; fixed installations e.g. on rough-cast in temporary buildings and huts for accommodation purposes; use as connection to machine tools; applications in fresh water, up to 10 m depth and at a maximum water temperature of 40 °C, such as the connection of submersible pumps or similar applications.
Conductor	Flexible red copper
Insulation type	EI4 (EN 50363-1)
Sheath type	EM2 (EN 50363-2-1)
Operating temperatures	-25° C +60° C
Short circuit temperature	200° C on the conductor (max 5 sec.)
Test voltage	2500 V
Cable markings	ELETTRO BRESCIA IEMMEQU <HAR> H07RN8-F
Minimum 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.
Notes	For single core cables with section above 35 mm ² and multicore cables with section above 10 mm ² , the production is possible through a commercial partner with minimum batch sizes and delivery dates to be arranged.

Standard references

Main standard	EN 50525-2-21
Conductor	EN 60228; IEC 60228
Self-Extinguishing	EN 60332-1-2; IEC 60332-1-2
Oil resistance	EN 60811-404; IEC 60811-404
Water resistance	EN 50525

Dimensions

Cross section	Wires max diameter	Conductor diameter	Core thickness	Core diameter ± 0,1	Sheath thickness	Medium min outer diameter	Medium max outer diameter	Electrical resistance at 20° C	Cable approx. weight	Cu factor
(Nxmm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)	(Kg/km)
1x1,50	0,260	1,46	0,80	N/A	1,40	5,7	7,1	13,3000	62,00	14,40
1x2,50	0,260	1,92	0,90	N/A	1,40	6,3	7,9	7,9800	79,00	24,00
1x4,00	0,310	2,44	1,00	N/A	1,50	7,2	9,0	4,9500	110,00	38,40
1x6,00	0,310	2,96	1,00	N/A	1,60	7,9	9,8	3,3000	140,00	57,60
1x10,00	0,410	3,99	1,20	N/A	1,80	9,5	11,9	1,9100	225,00	96,00
1x16,00	0,410	5,20	1,20	N/A	1,90	10,8	13,4	1,2100	285,00	153,60
1x25,00	0,410	6,50	1,40	N/A	2,00	12,7	15,8	0,7800	415,00	240,00

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Cross section (Nxmm ²)	Wires max diameter (mm)	Conductor diameter (mm)	Core thickness (mm)	Core diameter ± 0,1 (mm)	Sheath thickness (mm)	Medium min outer diameter (mm)	Medium max outer diameter (mm)	Electrical resistance at 20° C (Ω/km)	Cable approx. weight (kg/km)	Cu factor (Kg/km)
1x35,00	0,410	7,70	1,40	N/A	2,20	14,3	17,9	0,5540	550,00	336,00
1x50,00	0,410	9,30	1,60	N/A	2,40	16,5	20,6	0,3860	780,00	480,00
1x70,00	0,510	10,80	1,60	N/A	2,60	18,6	23,3	0,2720	1.040,00	672,00
1x95,00	0,510	13,60	1,80	N/A	2,80	20,8	26,0	0,2060	1.320,00	912,00
1x120,00	0,510	14,80	1,80	N/A	3,00	22,8	28,6	0,1610	1.690,00	1.152,00
1x150,00	0,510	17,40	2,00	N/A	3,20	25,2	31,4	0,1290	2.050,00	1.440,00
2x1,00	0,210	1,23	0,80	N/A	1,30	7,7	10,0	19,5000	115,00	19,20
2x1,50	0,260	1,46	0,80	N/A	1,50	8,5	11,0	13,3000	140,00	28,80
2x2,50	0,260	1,92	0,90	N/A	1,70	10,2	13,1	7,9800	200,00	48,00
2x4,00	0,310	2,44	1,00	N/A	1,80	11,8	15,1	4,9500	275,00	76,80
2x6,00	0,310	2,96	1,00	N/A	2,00	13,1	16,8	3,3000	365,00	115,20
2x10,00	0,410	3,99	1,20	N/A	3,10	17,7	22,6	1,9100	685,00	192,00
2x16,00	0,410	5,20	1,20	N/A	3,30	20,2	25,7	1,2100	835,00	307,20
2x25,00	0,410	6,50	1,40	N/A	3,60	24,3	30,7	0,7800	1.220,00	480,00
3G1,00	0,210	1,23	0,80	N/A	1,40	8,3	10,7	19,5000	135,00	28,80
3G1,50	0,260	1,46	0,80	N/A	1,60	9,2	11,9	13,3000	170,00	43,20
3G2,50	0,260	1,92	0,90	N/A	1,80	10,9	14,0	7,9800	240,00	72,00
3G4,00	0,310	2,44	1,00	N/A	1,90	12,7	16,2	4,9500	335,00	115,20
3G6,00	0,310	2,96	1,00	N/A	2,10	14,1	18,0	3,3000	445,00	172,80
3G10,00	0,410	3,99	1,20	N/A	3,30	19,1	24,2	1,9100	835,00	288,00
3G16,00	0,410	5,20	1,20	N/A	3,50	21,8	27,6	1,2100	1.040,00	460,80
3G25,00	0,410	6,50	1,40	N/A	3,80	26,1	33,0	0,7800	1.530,00	720,00
3G35,00	0,410	7,70	1,40	N/A	4,10	29,3	37,1	0,5540	2.010,00	1.008,00
3G50,00	0,410	9,30	1,60	N/A	4,50	34,1	42,9	0,3860	2.830,00	1.440,00
3G70,00	0,510	10,80	1,60	N/A	4,80	38,4	48,3	0,2720	3.730,00	2.016,00
3G95,00	0,510	13,60	1,80	N/A	5,30	43,3	54,0	0,2060	4.740,00	2.736,00
4G1,00	0,210	1,23	0,80	N/A	1,50	9,2	11,9	19,5000	165,00	38,40
4G1,50	0,260	1,46	0,80	N/A	1,70	10,2	13,1	13,3000	205,00	57,60
4G2,50	0,260	1,92	0,90	N/A	1,90	12,1	15,5	7,9800	290,00	96,00
4G4,00	0,310	2,44	1,00	N/A	2,00	14,0	17,9	4,9500	420,00	153,60
4G6,00	0,310	2,96	1,00	N/A	2,30	15,7	20,0	3,3000	565,00	230,40
4G10,00	0,410	3,99	1,20	N/A	3,40	20,9	26,5	1,9100	1.030,00	384,00
4G16,00	0,410	5,20	1,20	N/A	3,60	23,8	30,1	1,2100	1.290,00	614,40
4G25,00	0,410	6,50	1,40	N/A	4,10	28,9	36,6	0,7800	1.930,00	960,00
4G35,00	0,410	7,70	1,40	N/A	4,40	32,5	41,1	0,5540	2.540,00	1.344,00
4G50,00	0,410	9,30	1,60	N/A	4,80	37,7	47,5	0,3860	3.580,00	1.920,00
4G70,00	0,510	10,80	1,60	N/A	5,20	42,7	54,0	0,2720	4.770,00	2.688,00

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5G1,00	0,210	1,23	0,80	N/A	1,60	10,2	13,1	19,5000	205,00	48,00
5G1,50	0,260	1,46	0,80	N/A	1,80	11,2	14,4	13,3000	255,00	72,00
5G2,50	0,260	1,92	0,90	N/A	2,00	13,3	17,0	7,9800	360,00	120,00
5G4,00	0,310	2,44	1,00	N/A	2,20	15,6	19,9	4,9500	520,00	192,00
5G6,00	0,310	2,96	1,00	N/A	2,50	17,5	22,2	3,3000	695,00	288,00
5G10,00	0,410	3,99	1,20	N/A	3,60	22,9	29,1	1,9100	1.250,00	480,00
5G16,00	0,410	5,20	1,20	N/A	3,90	26,4	33,3	1,2100	1.590,00	768,00
5G25,00	0,410	6,50	1,40	N/A	4,40	32,0	40,4	0,7800	2.380,00	1.200,00

Cores identification

Cores number	Insulation colour sequence
2	Blue-Brown
3	Yellow/Green-Blue-Brown
4	Yellow/Green-Blue-Brown-Black / Yellow/Green-Brown-Black-Grey
5	Yellow/Green-Blue-Brown-Black-Grey

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