H07RN8-F

Rubber cables

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

TECHNICAL DATA

Nominal tension	450/750 V
Conditions of employment	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.
Type of electrical conductor	Flexible red copper
Type of insulation	EI4 (EN 50363-1)
Type of outer sheath	EM2 (EN 50363-2-1)
Operating temperature	-25° C | +60° C
Short circuit temperature	+200° C on the conductor (5 sec. max)
Test voltage	2500 V
Cable marking	ELETTRO BRESCIA IEMMEQU <HAR> H07RN8-F
Minimum radius of curvature	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 mm² and multicore cables with section above 10 mm², the production is possible through a commercial partner with minimum batch sizes and delivery dates to be arranged.

REFERENCES STANDARDS

Main rule	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

Nominal section	Wires max diameter	Conductor diameter	Insulation thickness	Insulation diameter ± 0,1	Minimum average external diameter	Medium outer diameter ± 0,2	Elelectrical resistance 20°C	Approximate weight	CU Factor
(Nxmm2)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(?/km)	(kg/km)	(kg/km)
1x1,50	0,26	1,44	0,80	N/A	1,40	6,0	13,3000	62,00	14,4000
1x2,50	0,26	1,88	0,90	N/A	1,40	6,6	7,9800	79,00	24,0000
1x4,00	0,31	2,44	1,00	N/A	1,50	7,5	4,9500	110,00	38,4000
1x6,00	0,31	2,96	1,00	N/A	1,60	8,3	3,3000	140,00	57,6000
1x10,00	0,41	3,99	1,20	N/A	1,80	10,2	1,9100	225,00	96,0000
1x16,00	0,41	5,20	1,20	N/A	1,90	11,6	1,2100	285,00	153,6000
1x25,00	0,41	6,50	1,40	N/A	2,00	13,5	0,7800	415,00	240,0000
1x35,00	0,41	7,70	1,40	N/A	2,20	15,1	0,5500	550,00	336,0000
1x50,00	0,41	9,30	1,60	N/A	2,40	17,5	0,3800	780,00	480,0000
1x70,00	0,51	10,80	1,60	N/A	2,60	19,4	0,2700	1040,00	672,0000
1x95,00	0,51	13,60	1,80	N/A	2,80	23,0	0,2000	1320,00	912,0000
1x120,00	0,51	14,80	1,80	N/A	3,00	24,6	0,1600	1690,00	1.152,0000
1x150,00	0,51	17,40	2,00	N/A	3,20	28,0	0,1200	2050,00	1.440,0000
2x1,00	0,21	1,21	0,80	N/A	1,30	8,4	19,5000	115,00	19,2000
2x1,50	0,26	1,44	0,80	N/A	1,50	9,4	13,3000	140,00	28,8000
2x2,50	0,26	1,88	0,90	N/A	1,70	11,0	7,9800	200,00	48,0000
2x4,00	0,31	2,44	1,00	N/A	1,80	12,6	4,9500	275,00	76,8000
2x6,00	0,31	2,96	1,00	N/A	2,00	14,2	3,3000	365,00	115,2000
2x10,00	0,41	3,99	1,20	N/A	3,10	19,2	1,9100	685,00	192,0000
2x16,00	0,41	5,20	1,20	N/A	3,30	22,0	1,2100	835,00	307,2000
2x25,00	0,41	6,50	1,40	N/A	3,60	26,0	0,7800	1220,00	480,0000
3G1,00	0,21	1,21	0,80	N/A	1,40	9,0	19,5000	135,00	28,8000
3G1,50	0,26	1,44	0,80	N/A	1,60	10,1	13,3000	170,00	43,2000
3G2,50	0,26	1,88	0,90	N/A	1,80	11,8	7,9800	240,00	72,0000
3G4,00	0,31	2,44	1,00	N/A	1,90	13,5	4,9500	335,00	115,2000
3G6,00	0,31	2,96	1,00	N/A	2,10	15,2	3,3000	445,00	172,8000
4G1,00	0,21	1,21	0,80	N/A	1,50	9,9	19,5000	165,00	38,4000
4G1,50	0,26	1,44	0,80	N/A	1,70	11,1	13,3000	205,00	57,6000
4G2,50	0,26	1,88	0,90	N/A	1,90	12,9	7,9800	290,00	96,0000
4G4,00	0,31	2,44	1,00	N/A	2,00	14,8	4,9500	420,00	153,6000
4G6,00	0,31	2,96	1,00	N/A	2,30	16,9	3,3000	565,00	230,4000
5G1,00	0,21	1,21	0,80	N/A	1,60	11,0	19,5000	205,00	48,0000
5G1,50	0,26	1,44	0,80	N/A	1,80	12,2	13,3000	255,00	72,0000
5G2,50	0,26	1,88	0,90	N/A	2,00	14,2	7,9800	360,00	120,0000
5G4,00	0,31	2,44	1,00	N/A	2,20	16,5	4,9500	520,00	192,0000
5G6,00	0,31	2,96	1,00	N/A	2,50	18,7	3,3000	695,00	288,0000
3G10,00	0,41	3,99	1,20	N/A	3,30	20,6	1,9100	835,00	288,0000
3G16,00	0,41	5,20	1,20	N/A	3,50	23,5	1,2100	1040,00	460,8000
3G25,00	0,41	6,50	1,40	N/A	3,80	27,8	0,7800	1530,00	720,0000
3G35,00	0,41	7,70	1,40	N/A	4,10	31,0	0,5500	2010,00	1.008,0000
3G50,00	0,41	9,30	1,60	N/A	4,50	36,1	0,3800	2830,00	1.440,0000
3G70,00	0,51	10,80	1,60	N/A	4,80	39,9	0,2700	3730,00	2.016,0000
3G95,00	0,51	13,60	1,80	N/A	5,30	47,8	0,2000	4740,00	2.736,0000
4G10,00	0,41	3,99	1,20	N/A	3,40	22,4	1,9100	1030,00	384,0000
4G16,00	0,41	5,20	1,20	N/A	3,60	25,7	1,2100	1290,00	614,4000
4G25,00	0,41	6,50	1,40	N/A	4,10	30,8	0,7800	1930,00	960,0000
4G35,00	0,41	7,70	1,40	N/A	4,40	34,3	0,5500	2540,00	1.344,0000
4G50,00	0,41	9,30	1,60	N/A	4,80	39,9	0,3800	3580,00	1.920,0000
4G70,00	0,51	10,80	1,60	N/A	5,20	44,3	0,2700	4770,00	2.688,0000
5G10,00	0,41	3,99	1,20	N/A	3,60	24,7	1,9100	1250,00	480,0000
5G16,00	0,41	5,20	1,20	N/A	3,90	28,5	1,2100	1590,00	768,0000
5G25,00	0,41	6,50	1,40	N/A	4,40	34,1	0,7800	2380,00	1.200,0000

CORES IDENTIFICATION

Cores number	Insulation colour sequence
1	NA
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

Refer to the CEI EN 50565 standard series as a guide to the use of cables with nominal voltage not exceeding 450/750 V (U0/U) and to the CEI 20-92 standard as a guide for the handling and storage of wooden reels for cables electrical.

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