



H07RN8-F



CABLES FOR CONTROL AND SIGNALLING CIRCUITS

Multicore flexible power cables, water resistant (submersible pump cables).

Rated voltage

U_o/U 450/750 V

Standards

EN 50525-1, EN 50525-2-21, EN IEC 60332-1-2, EN IEC 60228, EN 50575:2014+A1:2016.

European directives

2014/35/UE (LVD) - 2011/65/CE e 2015/863/EU (RoHS).

Conductor

Flexible annealed plain copper class 5 (EN IEC 60228).

Insulation

Rubber of type EI4. Colours of the cores: black numbered, with or without the green/yellow earth core.

Sheath

Rubber of type EM2. Colour of the sheath: black; if explicitly requested, and for agreed quantities, the cables can be supplied in other single colours.

Marking

Continuous marking on the sheath: « LOMBARDA H07RN8-F nominal cross section IEMMEQU <HAR> WATER RESISTANT production date Made in Italy ». Progressive meter marking.

Guidance for Use

Particularly for use in fresh water up to 10 m depth and a maximum water temperature up to 40°C such as the connection of submersible pumps or similar applications. Not suitable for under-water power transmission or installation in a watercourse, or where it is possible that mechanical damage might occur and cause a hazard.

Indirect underground installation is allowed provided that there is mechanical protection of the cables. H07RN8-F cable is manufactured according to the standard EN 50525-2-21. It is the only cable that the installation standard CEI 64-8 at section 702 allows for installation in swimming pools and fountains. With reference to the standards, and unless there are no instructions or indications to the contrary, this cable type is also suggested for use with submersible pumps.

Further instructions and guidance for use are given in the EN 50565 standard.

EN IEC
60332-1-2



Water
Resistant



Minimum
installation and
handling temp
-25 °C



Ozone
Resistant



Maximum
operating
temperature
on the conductor



Lead Free
Ecogamma
RoHS



Maximum
short circuit
temperature
(max 5 sec)



According
to



Minimum
usage
temperature
-40 °C



Maximum
tensile
stress
1,5 kg/mm²



Minimum internal
bending radii
3 ÷ 8 times the
overall diameter



H07RN8-F



◁HARD▷



Number and nominal cross-sectional area of conductors n x mm ²	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Thickness of sheath specified value mm	Mean overall dimensions		Indicative cable weight g/m	Maximum resistance of conductors at 20 °C ohm/km
				MIN mm	MAX mm		
6 G 1,5	0,26	0,8	2,5	13,4	17,2	310	13,3
7 G 1,5	0,26	0,8	2,6	14,7	18,7	335	13,3
12 G 1,5	0,26	0,8	2,9	17,6	22,4	560	13,3
18 G 1,5	0,26	0,8	3,2	20,7	26,3	750	13,3
19 G 1,5	0,26	0,8	3,3	20,7	26,3	795	13,3
24 G 1,5	0,26	0,8	3,5	24,3	30,7	1000	13,3
36 G 1,5	0,26	0,8	3,8	27,8	35,2	1350	13,3
6 G 2,5	0,26	0,9	2,7	15,7	20,0	450	7,98
7 G 2,5	0,26	0,9	2,8	17,1	21,8	465	7,98
12 G 2,5	0,26	0,9	3,1	20,6	26,2	770	7,98
18 G 2,5	0,26	0,9	3,5	24,4	30,9	1100	7,98
19 G 2,5	0,26	0,9	3,7	24,4	30,9	1125	7,98
24 G 2,5	0,26	0,9	3,9	28,8	36,4	1500	7,98
36 G 2,5	0,26	0,9	4,3	33,2	41,8	2050	7,98
6 G 4	0,31	1,0	2,9	18,2	23,2	640	4,95
7 G 4	0,31	1,0	3,1	20,1	25,5	720	4,95
12 G 4	0,31	1,0	3,5	24,4	30,9	1000	4,95
18 G 4	0,31	1,0	3,9	28,8	36,4	1590	4,95

If explicitly requested, and for agreed quantities, a version of the cables without the protective conductor (green/yellow) can be supplied