



FS18OHH2R18-300/500 V

Reaction to Fire CPR: C_{ca}-s3,d1,a3

Multicore flexible cables, S18 PVC insulated, with double screen for power, R18 PVC sheathed. Resistant to fire propagation with reduced emission of halogen (corrosive gases).

Rated voltage

U_o/U 300/500 V

Standards

CEI UNEL 35722 Table; CEI 20-11, EN and IEC 60228, EN 60332-1-2, EN 50267-2-1; EN 50575:2014+A1:2016.

Regulation Construction Products

305/2011 EU.

European directives

2014/35/UE (B.T.) - 2011/65/CE and 2015/863/EU (RoHS).

Conductor

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

Insulation

PVC type S18, with reduced emission of halogen (corrosive gases) under fire conditions.

Colour of the cores:

Two-core : blue-brown;

Three-core : green/yellow-blue-brown or brown-black-grey;

Four-core : green/yellow-brown-black-grey or blue-brown-black-grey;

Five-core : green/yellow-blue-brown-black-grey or blue-brown-black-grey-black.

Screen

aluminium/polyester tape + annealed plain copper braid.

Maximum transfer impedance

250 MΩ/m at 30 MHz

Sheath

PVC type R18 with reduced emission of halogen (corrosive gases) under fire conditions. Colour: brown.

Marking

Continuous marking on the sheath « ICEL FS18OHH2R18-300/500 V nominal cross section IEMMEQU EFP ECOGAMMA production date Made in Italy C_{ca}-s3,d1,a3 »; Progressive meter marking.

Guidance for Use

For internal installations, also in wet locations, for fixed installation.

Normally intended in systems where a certain degree of protection against electromagnetic interference (ensured by copper braid screen) and electrostatic protection (ensured by aluminum / polyester tape screen) is required. In particular for feeding and transport of controls and signals in the interconnection between parts of construction machinery, including machine tools.

FS18OHH2R18 cables are suitable for general applications in construction work subject to fire reaction requirements; for bundle installations with high fire risks, having fire reaction class C_{ca}-s3,d1,a3.

See also the guide to use standard EN 50565.

According to CPR EN 50399



Minimum internal bending radii 8 times the overall diameter



EN IEC 60332-1-2



Low emission corrosive gasses



Minimum installation and handling temp + 0 °C



Double electromagnetic electrostatic shielding



Maximum operating temperature on the conductor



Lead free Ecogamma



Maximum shortcircuit temperature (max 5 sec)



According to RoHS



Minimum usage temperature -15 °C



Maximum tensile stress 1,5 kg/mm²



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CE 0051

Number and nominal cross-sectional area of conductors mm ²	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Thickness of the sheath specified value mm	Maximum overall diameter mm	Indicative cable weight g/m	Maximum resistance of conductors at 20 °C ohm/km	Minimum insulation resistance at 70 °C Mohm•km
2 x 0,5	0,21	0,4	0,8	6,8	47	39,0	0,017
2 x 0,75	0,21	0,4	0,8	7,2	58	26,0	0,014
2 x 1	0,21	0,4	0,8	7,5	66	19,5	0,012
2 x 1,5	0,26	0,4	0,9	8,4	88	13,3	0,011
2 x 2,5	0,26	0,5	1,0	10,1	131	7,98	0,011
3 G 0,5	0,21	0,4	0,8	7,2	58	39,0	0,017
3 G 0,75	0,21	0,4	0,8	7,5	71	26,0	0,014
3 G 1	0,21	0,4	0,8	7,9	83	19,5	0,012
3 G 1,5	0,26	0,4	0,9	8,8	112	13,3	0,011
3 G 2,5	0,26	0,5	1,0	10,6	170	7,98	0,011
4 G 0,5	0,21	0,4	0,8	7,7	65	39,0	0,017
4 G 0,75	0,21	0,4	0,9	8,3	84	26,0	0,014
4 G 1	0,21	0,4	0,9	8,8	98	19,5	0,012
4 G 1,5	0,26	0,4	0,9	9,5	128	13,3	0,011
4 G 2,5	0,26	0,5	1,0	11,5	196	7,98	0,011
5 G 0,5	0,21	0,4	0,8	8,3	78	39,0	0,017
5 G 0,75	0,21	0,4	0,9	9,0	102	26,0	0,014
5 G 1	0,21	0,4	0,9	9,4	121	19,5	0,012
5 G 1,5	0,26	0,4	1,0	10,5	164	13,3	0,011
5 G 2,5	0,26	0,5	1,1	12,7	250	7,98	0,011

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