



CE 0051

# FS18OR18-300/500 V

## Reaction to Fire CPR: C<sub>ca</sub>-s3,d1,a3

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

### Rated voltage

U<sub>o</sub>/U 300/500 V

### Standards

CEI UNEL 35720 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 (L.V.D.) - 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.

### Sheath

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

### Marking

Continuous marking on the sheath « ICEL FS18OR18-300/500 V nominal cross section IEMMEQU EFP ECOGAMMA production date Made in Italy C<sub>ca</sub>-s3,d1,a3 »; Progressive meter marking.

### Guidance for Use

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

FS18OR18 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<sub>ca</sub>-s3,d1,a3.

Not suitable for underground installations. Suitable for outdoors intermittent or temporary use.

See also the guide to use standard EN 50565.

According to CPR EN 50399



Minimum internal bending radii 3 times the overall diameter



EN IEC 60332-1-2



Low emission corrosive gasses



Minimum installation and handling temp + 0 °C



Lead free Ecogamma



Maximum operating temperature on the conductor

70 °C

According to RoHS

RoSH free

Maximum shortcircuit temperature (max 5 sec)

160 °C

Minimum usage temperature -15 °C



Maximum tensile stress 1,5 kg/mm<sup>2</sup>



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Number and nominal cross-sectional area of conductors mm <sup>2</sup>	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	0,7	5,7	39	39,0	0,017
2 x 0,75	0,21	0,4	0,7	6,0	47	26,0	0,014
2 x 1	0,21	0,4	0,7	6,4	56	19,5	0,012
2 x 1,5	0,26	0,4	0,8	7,2	78	13,3	0,011
2 x 2,5	0,26	0,5	0,8	8,7	118	7,98	0,011
3 G 0,5	0,21	0,4	0,7	6,0	49	39,0	0,017
3 G 0,75	0,21	0,4	0,7	6,4	58	26,0	0,014
3 G 1	0,21	0,4	0,7	6,8	69	19,5	0,012
3 G 1,5	0,26	0,4	0,8	7,6	97	13,3	0,011
3 G 2,5	0,26	0,5	0,9	9,5	153	7,98	0,011
4 G 0,5	0,21	0,4	0,7	6,5	53	39,0	0,017
4 G 0,75	0,21	0,4	0,7	7,0	70	26,0	0,014
4 G 1	0,21	0,4	0,8	7,6	88	19,5	0,012
4 G 1,5	0,26	0,4	0,8	8,3	120	13,3	0,011
4 G 2,5	0,26	0,5	0,9	10,4	190	7,98	0,011
5 G 0,5	0,21	0,4	0,7	7,1	90	39,0	0,017
5 G 0,75	0,21	0,4	0,8	7,8	110	26,0	0,014
5 G 1	0,21	0,4	0,8	8,3	153	19,5	0,012
5 G 1,5	0,26	0,4	0,9	9,3	241	13,3	0,011
5 G 2,5	0,26	0,5	1,0	11,6	352	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.