



FB Series, Braid

July 2017

Flat Braid Solutions

An extensive range of flat braids from a wide choice of materials, including stainless steel, aluminium, plain copper, tin-plated copper and nickel-plated copper.

The electrical performance of a braid is determined by selecting the correct cross sectional area from the table.

By changing the conductor strand size it is possible to improve the braid flexibility and vibration resistance whilst maintaining its current rating; the smaller the strand size, the more flexible the braid.

Specialist braids are available using numerous conductor materials as identified, such as using nickel and nickel plated copper for increased temperature and corrosion resistance and aluminium for applications requiring weight savings.

Flat braids are also available with the option of PVC or zero-halogen extruded jackets, providing mechanical protection and electrical insulation.

There are numerous options and permutations possible with the facilities available, so please contact us for additional information or to discuss your particular requirements.

Insulated versions see table below, or for other material options please contact us.



Tin-plated Cu: -65°C to +150°C
Nickel-plated Cu: -65°C to +260°C
Insulated Versions Available

Custom Configurations Possible

Insulation/Jacket Options

Material	Colour Availability	Temperature Rating
PVC	Clear, Black, Red, Green, Yellow, Green, Green/Yellow, Blue, White	-20°C to +70°C
LSZH Low Smoke, Zero Halogen	Clear, Black, Red, Green, Yellow, Green, Green/Yellow, Blue, White	-20°C to +80°C

FB-10.0-5-15/1 Part Numbering example



Standard Configurations

FB Standard Flat Braids

Product Details (Un-insulated Tin-plated copper)

Ref	CSA	Width and Depth	Current Rating	Reel Size
0.5	0.5 mm ²	1.5 x 0.5 mm	12 amps	100m
1.1	1.1 mm ²	2.0 x 0.5 mm	20 amps	100m
2.5	2.5 mm ²	6.0 x 0.8 mm	34 amps	100m
4.0	4.0 mm ²	8.0 x 1.0 mm	53 amps	100m
6.0	6.0 mm ²	10.0 x 1.0 mm	69 amps	100m
10.0	10.0 mm ²	13.0 x 1.3 mm	97 amps	100m
16.0	16.0 mm ²	19.0 x 1.5 mm	132 amps	50m
25.0	25.0 mm ²	25.0 x 2.0 mm	178 amps	50m
35.0	35.0 mm ²	25.0 x 3.5 mm	223 amps	50m
50.0	50.0 mm ²	20.0 x 4.0 mm	282 amps	50m
70.0	70.0 mm ²	32.0 x 5.0 mm	300 amps	50m

Current ratings are based on temperature rise of 50°C above ambient

Custom Configurations

For customised designs utilising alternative conductor materials and target current ratings, please contact us with your requirements to discuss the available options, competitive MOQs and lead times.

All information provided is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. IS-Rayfast give no guarantee in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages from the sale, resale, transfer, use or misuse of the product.

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