



# CFBA Custom Series

July 2017

Customised Bonding Lead Solutions

In addition to our standard products we are able to supply fully customised bonding leads, each with their own unique part number.

Our bonding leads are constructed from an extensive range of manufactured braids and ropes combined with components from a multitude of termination, insulation and identification options, resulting in bonding leads specifically tailored to meet the demands of your application.

We aim to keep the minimum order quantities low, lead times short and ensure that our product quality and customer service levels are consistently high.

Please contact us with your requirements, stating current rating required and design details as outlined below.



**Broad Range of Materials and Customisable Options**  
**Short Lead Times and Low MOQ's**

Insulation and Identification Options



## Part Configuration Considerations

**Wire Size and Stranding:** We determine this for you with consideration to achieve desired current rating.

**Insulation and Identification:** Various materials available, see our heat shrink tube and wire and cable markers product range.

**Terminal Style and Hole Size:** A typical selection is shown on the reverse of this data sheet, although many variations are possible.

**Braid Style:** There are four key options here, flat braid, round braid, rope braid and layered braid.

**Standard Lengths:** Length of desired bonding lead/strap is customer specified, but generally in 10mm increments.

**Material Selection:** The table over illustrates the key selection choices available for characteristics such as conductivity, corrosion resistance and operating temperature. Plus there typical application environment.

Typical materials include...

Bare copper | Stainless steel | Aluminium | Tin-plated copper  
Oxygen free copper | Galvanised mild steel | Nickel-plated copper  
Silver plated copper | Monel | Phosphor bronze | Nickel 200  
Bright annealed steel. Plus many more, please contact our sales office to discuss your requirements.




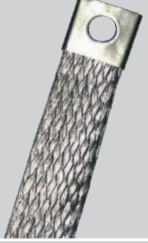

**Cross Sectional Area:** 1.5mm<sup>2</sup> to 100mm<sup>2</sup> see table over for standard available sizes.

## Standard Configurations

### Material Selection

	Conductivity	Corrosion Resistance	Max. Operating Temperature*	Applications
Aluminium	Fair	Fair	371°C	Industrial, Aerospace
Plain Copper	Good	Fair	150°C	Industrial, Rail
Tin-plated Copper	Good	Good	150°C	Industrial, Defence
Stainless Steel	Fair	Excellent	400°C	Industrial, Offshore
Nickel-plated Copper	Excellent	Excellent	260°C	Aerospace, Marine
Pure Nickel	Excellent	Excellent	649°C	Aerospace, Industrial
Silver-plated Copper	Excellent	Good	200°C	Aerospace, Space

### Standard Terminal Options (others available)

Ring	Forked	Insulated	Pressed	Quick Release
				
Industrial, Defence, Aerospace	Industrial, Defence	Industrial, Defence, Aerospace	Industrial, Defence, Energy	Aerospace, Defence

### Current Rating (Tin-plated Copper)

Cross-sectional Area	Current Rating (amps)
1.5	28
2.5	34
6.0	69
10.0	97
16.0	132
25.0	178
50.0	282
100.0	400

These current ratings are based on a temperature rise of 50°C above ambient

*Note: Temperature for uninsulated leads, max operating temperature for insulated leads depends on selected material*

For additional information on what is possible or should you have a particular design or application in mind please contact our sales office for details.

Colour tracer identification option available.



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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