



# Power Shunts

July 2017

Custom and Standard Large Braid Connectors

Power shunts are large cross-sectional area braided connectors, customised and designed to meet the increasing demands of power distribution applications.

They are often produced with multi-layers of flat or round braids to achieve sizes up to 1000mm<sup>2</sup> and to carry currents in excess of 400 amps.

Used as an alternative to solid bus-bars and power cable assemblies, power shunts are capable of carrying very high currents yet are flexible, robust, easy to install and cost effective.

## Ferrule Finishes

Ferrules (end plates) are available with different plated finishes including; Tin, Nickel and Silver.



**Large Cross-Sectional Areas**  
**Broad Terminal and Braid Range**  
**Space and Weight Saving**

Cost Effective Alternative to Power Cable  
and Solid Bus-bars  
Highly Flexible

## Terminations

- High compaction
- Maximum conductivity
- Custom design

## Braid Configuration

- Flat or round
- Multi-layered
- High flexibility options

## Insulation Jacket Options

- Fluid resistant
- High temperature
- Low smoke and toxicity



## Standard Configurations

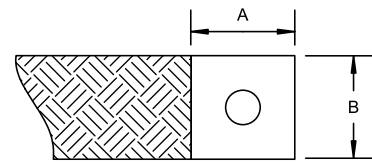
### Braid and Termination Selection

	Conductivity	Oxidisation Resistance	Operating Temperature
Plain Copper	Good	Fair	Medium
Tin-plated Copper	Good	Good	Medium
Nickel Plated Copper	Good	Excellent	Good
Silver Plated Copper	Excellent	Good	Good

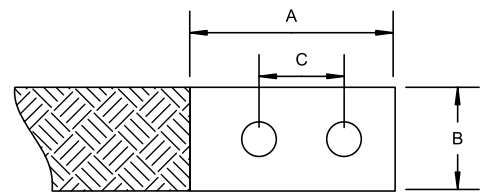
Please use the tables below to establish the cross-sectional area and nominal current rating required for your application, in conjunction with ferrule type required to match requirements.

Please contact us for further information.

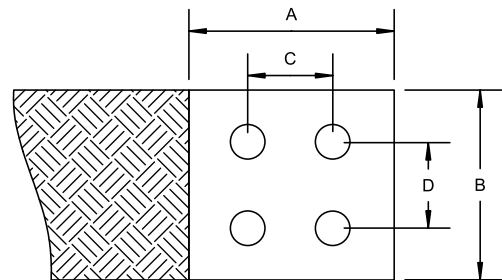
Cross-sectional Area	Nom. Current Rating	A	B
mm <sup>2</sup>	amps	mm	mm
100	380	25	25
120	410	30	30
150	450	30	30
200	600	30	30



Cross-sectional Area	Nom. Current Rating	A	B	C
mm <sup>2</sup>	amps	mm	mm	mm
150	450	60	30	30
300	760	100	50	50
450	1000	100	50	50
600	1220	120	60	60



Cross-sectional Area	Nom. Current Rating	A	B	C	D
mm <sup>2</sup>	amps	mm	mm	mm	mm
300	940	70	70	40	40
500	1280	70	100	50	50
750	1500	70	100	50	50
1000	2000	100	100	50	50



The current rating values in the tables above are based on simple flat braid configurations, for a temperature rise of 50°C above ambient. The actual current rating of a power shunt will vary accordingly to the design and layout of the final braid configuration. It is recommended that each power shunt be tested and evaluated fully to ascertain its suitability to meet the requirements of its final application.

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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