

Power Shunts

Large Braid Connectors

- **Large cross-sectional areas**
- **Broad terminal and braid range**
- **Highly flexible**
- **Space and weight saving**
- **Fast installation**
- **Cost effective alternative to power cables and solid bus bars**

Energy and Industrial

Power stations
Generators
Switchgear
Power transmission

Design Optimisation

Computer aided design is applied to each power shunt proposal optimising weight, size, flexibility, performance and potential cost savings.

Termination

- High compaction
- Maximum conductivity
- Customised design

Braid configuration

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

Insulation jacket options

- Fluid resistant
- High temperature
- Low smoke and toxicity



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

They are often designed with multi-layers of flat or round braids to achieve sizes of up to 1000mm² 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.



Braid and Termination selection

	Conductivity	Oxidisation Resistance	Operating Temperature	Applications
Plain Copper	Good	Fair	Medium	Industrial, Rail, Power
Tin-plated Copper	Good	Good	Medium	Industrial, Rail, Power

Copper, single layer flat braid current ratings

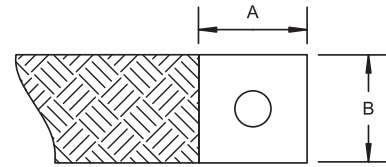
Cross-sectional Area (mm ²)	Current rating (amps)
100	400
240	650
300	760
500	1100
600	1250

Note: Above current ratings are based on a temperature rise of 50°C above ambient.

The current rating values are based on simple flat braid configurations. 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.

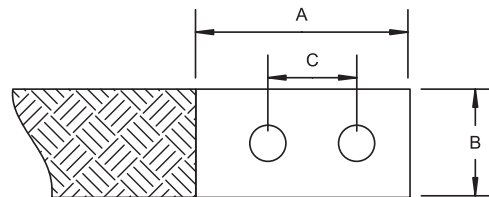
Cross-Sectional Area mm ²	Nominal Current Rating (amps)	A mm	B mm	Ferrule (End plates) Finishes
100	380	25	25	Tin Nickel Silver
120	410	30	30	
150	450	30	30	
200	600	30	30	

Hole diameter to be specified by customer.



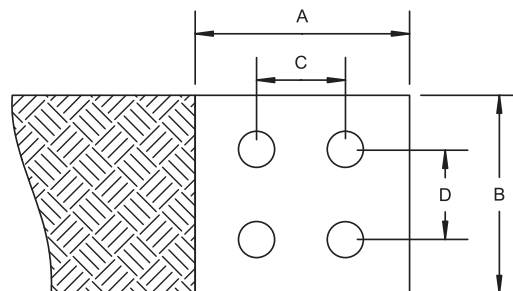
Cross-Sectional Area mm ²	Nominal Current Rating (amps)	A mm	B mm	C mm	Ferrule (End plates) Finishes
150	450	60	30	30	Tin Nickel Silver
300	760	100	50	50	
450	1000	100	50	50	
600	1220	120	60	60	

Hole diameter to be specified by customer.



Cross-Sectional Area mm ²	Nominal Current Rating (amps)	A mm	B mm	C mm	D mm	Ferrule (End plates) Finishes
300	940	70	70	40	40	Tin Nickel Silver
500	1280	70	100	50	50	
750	1500	70	100	50	50	
1000	2000	100	100	50	50	

Hole diameter to be specified by customer.



The current ratings indicated in the above tables are reference values for a temperature rise of 50° above ambient. Ratings may change in accordance with the method of use and ambient conditions.