

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS FURSE EARTHING www.cablejoints.co.uk Thorne and Derrick UK Tel 0044 191 490 1547 Fax 0044 191 477 5371 Tel 0044 117 977 4647 Fax 0044 117 9775582



# **Power Shunts**

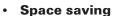
Power shunts are large cross-sectional area braided connectors, customised and designed to meet the increasing demands of power distribution applications.

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

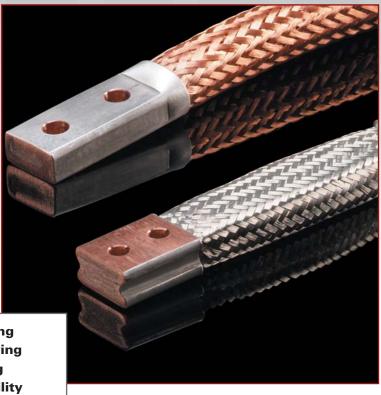
Used as an alternative to solid bus bars and power cable assemblies, power shunts are capable of carrying very high currents yet are flexible, robust, easy to install and cost effective.

## **Applications**

Power stations Generators Switchgear Power Transmission



- Weight saving
- Cost saving
- High flexibility
- · Fast installation



# POWER SHUNTS

### **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

- General purpose
- · Fluid resistant
- · High temperature
- Low smoke and toxicity



## **Braid and Termination selection**

	Conductivity	Oxidisation Resistance	Operating Temperature	<b>Applic</b> ations
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	Current rating	
(mm²)	(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 a simple flat braid configuration. The actual current rating of a power shunt will vary according 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.



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

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