

## Wrexham mineral cables standards & approvals

Wrexham Mineral Insulated Cable is totally Inorganic and Silicone free in construction.

The main construction consists of Solid Copper Conductors (cores), highly compressed Magnesium Oxide (insulation) and a Solid Copper Sheath.

This unique construction gives melting points of 1083c° & 2800c° for the copper and insulation respectively. This provides fire survival whilst continuing to carry a load in temperatures in excess of 1000c°.

This construction also means MICC is not reliant on any LSF serving to maintain fire survival.

Our sheathing of the cable is copper. This passes all enhanced fire testing including BS 6387, BS 5839-1:2013 PH 120 to BS EN 50200:2015 PH120

We offer an optional LSF (LS0H) Serving which is a zero halogen covering available in various colours. This outer covering has passed Halogen and Smoke Emission testing under our LPCB approval

Wrexham Mineral Cables are manufactured to BS EN 60702-1:2002.

Wrexham Mineral Cables hold product approvals through LPCB (Loss Prevention Certification Board) and Sira ATEX approvals. We are also London Underground approved cable supplier and can be found on their Product Register.

Our approvals include

### Cables

Cables manufactured and tested	To BS EN 60702 –1: 2002+A1:2015
Certification of Assessed Quality Assurance	No. 333 to BS EN ISO 9001
LPCB Product Certification	No. 333a/01

**Standards and their descriptions**

Approval body	Standard Reference	Description
LPCB	BS 5839-1:2013 ENHANCED to clause 26.2	Fire detection and fire alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance
LPCB	BS EN 50200:2015 Class Ph120	Resistance to fire of unprotected small cables for use in emergency circuit
LPCB	BS 8434-2:2003+A2:2009	Test for unprotected small cables for use in emergency circuits. BS EN 50200 with a 930° flame and with water spray
LPCB	C,W & Z OF BS 6387:2013	Requirements for cables to maintain circuit integrity under fire conditions. All 3 tests performed using the same cable sample
LPCB	BS EN 60754-1	Test on gases evolved during combustion of materials from cables. Determination of acidity (by pH measurement) and conductivity Part 1: Determination of the halogen acid gas content.
LPCB	BS / IEC 60331-2	Tests method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0kV and with an overall diameter not exceeding 20 mm
LPCB	BS / IEC 60332	Tests on electric cables under fire conditions – Part 1: Test for vertical flame propagation.
LPCB	BS EN 50267	Gases evolved during combustion or electrical cables.
LPCB	IEC 61034-2	Measurement of smoke density of cables burning under defined fire conditions
London Underground (LUL)	LU standard 1-085	<b>Product Registration Certificate number 1567</b> All core sizes up to a maximum of 10.0mm <sup>2</sup> with a maximum of 4-cores ( Light & Heavy Duty bare cables only ). along with all termination materials. The cable is compliant with LU standard 1-085, and suitable for installations in surface and sub-surface locations
Exova Warrington Fire Aus Pty Ltd.	AA/NZS 3013-2005	Classification of the fire and mechanical performance of wiring system elements.




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## Terminations

Sira Quality Assurance Notification	No. Sira 02 ATEX M170
EC-Type Examination Certificate	No. Sira 02 ATEX 1305X
Compression Ring Type Glands to: BS EN 60079-1:2014	Explosive atmospheres. Equipment protection by flameproof enclosures "d"

The Cable Glands RGM approved to BS EN 60079-1:2014 under SIRA License SIRA02ATEX1305X

Certified:  II 2G 1D Ex db IIC Gb / Ex ta IIIC Da

Externally Threaded Glands ambient service temperatures Of -20°C to 450°C (T1). Brass to CZ121

Manufactured in accordance with BS EN 60702-2:2002 and compliance with ATEX directive 2014/34/EU