



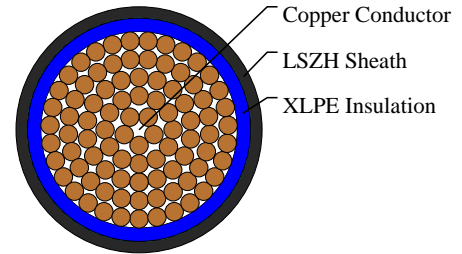
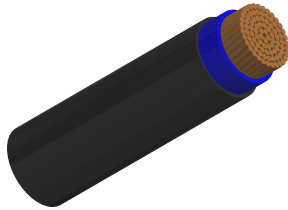
# Caledonian

BS 8573 600/1000V XLPE Insulation LSZH Sheath Cables

www.caledonian-cables.com

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## Single Core 600/1000V XLPE Insulation, LSZH Sheath Cables to BS 8573 1C1000



### APPLICATIONS

These XLPE insulated and LSZH sheathed cables are generally used for fixed installation. Suitable for building wiring, especially in areas where smoke and fume emissions may cause a potential threat to life but not for burial in the ground, either directly or in ducts.

### STANDARDS

Basic design to BS 8573:2012

### FIRE PERFORMANCE

|  |                                |
|--|--------------------------------|
| Flame Retardance (Single Vertical Wire Test)                             | BS EN 60332-1-2:2004           |
| Reduced Fire Propagation (Vertically-mounted bundled wires & cable test) | BS EN 60332-3-24:2009 (cat. C) |
| Halogen Free   | BS EN 50267-2-1                |
| Minimum Smoke Emission   | BS EN 61034-2                  |
| Spark Test   | BS EN 62230                    |

### VOLTAGE RATING

600/1000V

### CABLE CONSTRUCTION

Conductor: Annealed copper conductor, strand according to BS EN 60228 class 2.

Insulation: XLPE type GP8 according to BS 7655-1.3. HEPR type GP6 according to BS 7655-1.2, or crosslinked polyolefin material type EI 5 according to BS EN 50363-5 can be offered as option.

Inner Covering option: The laid up cores may be covered by an optional extruded inner covering or separating tape. It shall be possible to separate the cores easily.

Outer Sheath: Thermoplastic LSZH type LTS 4 according to BS 7655-6.1.

Outer Sheath option: UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

### COLOUR CODE

Insulation Colour: Brown or blue



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Sheath Colour: Black, other colours can be offered upon request.

## PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (XLPE): 90°C

Maximum short circuit temperature (5 Seconds): 250°C

Minimum bending radius:

Circular copper conductors(up to 25mm<sup>2</sup>): 4 x Overall Diameter

Circular copper conductors(above 25mm<sup>2</sup>): 6 x Overall Diameter

Shaped copper conductors: 8 x Overall Diameter

## DIMENSION AND PARAMETERS

| No. of Cores ×<br>Cross-sectional Area | Conductor Class | Nominal Insulation<br>Thickness | Nominal Thickness<br>of Inner Covering | Nominal Sheath<br>Thickness |
|--|-----------------|---------------------------------|--|-----------------------------|
| No.×mm <sup>2</sup>                    |                 | mm                              | mm                                     | mm                          |
| 1×1000                                 | 2               | 2.8                             | 1.6                                    | 2.4                         |



Rated voltage



BS 8573