

# BS7835 Single Core Armoured Mains Cable CU XLPE AWA LSZH 8.7/15kV - 50mm<sup>2</sup> to 500mm<sup>2</sup>



## Description

BS7835 cables are armoured power cables designed for medium voltage fixed installations, such as power networks and industrial installations, including power supply stations, and sub stations. Can be installed indoors, outdoors, underground, and in cable ducts. These Single core cables have copper conductors with cross-linked polyethylene (XLPE) insulation various screen options, water blocking options, aluminium wire armour and LSZH bedding and outer sheath.

The UV resistant LSZH outer sheath means this cable is suitable for Internal use in buildings, power stations, or switchboards and are often run in cable tray for industrial applications. They can also be used externally in cable duct and due to the armour can be buried directly in free draining soil.

## Key Features



**Voltage Rating**  
8.7/15 (17.5) kV



**Minimum Bending Radius**  
15 x Overall Diameter



**Flame Retardancy**  
BS EN/IEC 60332-1-2  
BS EN/IEC 60332-3-24



**Temperature Limits**  
Conductor Maximum Operating Temperature: +90°C  
Maximum Short Circuit Temperature: +250°C

## Core Colours

Outer Sheath: Red or Black

## Standards

### Construction

- **Conductor:** Class 2 Copper Conductor
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Insulation Screen:** Semi-Conductive XLPE
- **Metallic Screen:** Individual copper tape screen
- **Filler:** Polyethylene Terephthalate (PET) fibres
- **Bedding:** Low Smoke Zero Halogen (LSZH)
- **Armour:** Aluminium Wire Armour (AWA)
- **Outer Sheath:** Low Smoke Zero Halogen (LSZH)

### QA Lab

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



## Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

### ecovadis

## BS7835 Single Core Armoured Mains Cable CU XLPE AWA LSZH 8.7/15kV - 50mm<sup>2</sup> to 500mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
15KVXLPE1X50	50	1	1.33	29.0	1300
15KVXLPE1X70	70	1	1.40	31.0	1600
15KVXLPE1X95	95	1	1.47	33.5	2000
15KVXLPE1X120	120	1	1.55	35.0	2265
15KVXLPE1X150	150	1	1.58	37.5	2625
15KVXLPE1X185	185	1	1.62	39.5	3000
15KVXLPE1X240	240	1	1.65	42.5	3550
15KVXLPE1X300	300	1	1.75	45.0	4500
15KVXLPE1X400	400	1	1.8	48.5	5450
15KVXLPE1X500	500	1	1.9	51.0	6500

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