Nexans - BS7835 Single Core Armoured Mains Cable CU XLPE AWA LSZH 8.7/15kV - 50mm² to 500mm²



Description

BS7835 cables from Nexans are armoured power cables designed for medium voltage fixed installations, such as power networks, industrial installations, power supply stations and substations. They 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 makes the cable suitable for internal use in buildings, power stations and switchboards, where it is often installed on cable tray for industrial applications. Nexans BS7835 cables can also be used externally in cable ducts 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)

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

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.

ISO/IEC 17025 Accredited Testing Laboratory
UKAS TESTING 31196

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

Nexans - BS7835 Single Core Armoured Mains Cable CU XLPE AWA LSZH 8.7/15kV - 50mm² to 500mm² - Dimensions

Reference	Short circuit screen 1s [kA]	Short circuit conductor 1s [kA]	Max. DC Resist. Cond. 20°C [Ohm/km]	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
15KVXLPE1X70RD	0.58	10	0.268	70	1	28.0	1400
15KVXLPE1X95RD	0.58	13.6	0.193	95	1	30.0	1700
15KVXLPE1X120RD	0.58	17.2	0.153	120	1	33.0	2000
15KVXLPE1X150RD	0.77	21.4	0.124	150	1	34.0	2500
15KVXLPE1X185RD	0.77	26.5	0.099	185	1	36.0	2750
15KVXLPE1X240RD	0.77	34.3	0.075	240	1	38.0	3500
15KVXLPE1X300RD	0.96	42.9	0.06	300	1	41.0	4000
15KVXLPE1X400RD	0.96	57.2	0.047	400	1	45.0	5000
15KVXLPE1X500RD	1.16	71.5	0.037	500	1	48.0	6250
15KVXLPE1X630RD	1.16	90.1	0.028	630	1	53.0	7750

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