Nexans - BS7835 Single Core Armoured Mains Cable CU XLPE AWA LSZH 12.7/22kV - 50mm² to 500mm²



Description

BS7835 single core copper cable from Nexans is a medium voltage armoured power cable designed for fixed installations in industrial power networks and power stations. The cable features XLPE insulation, aluminium wire armour (AWA), water blocking and a Low Smoke Zero Halogen (LSZH) outer sheath for added protection in demanding installations.

With a voltage rating of 12.7/22kV, the cable is suitable for indoor, outdoor and underground applications. The Nexans BS7835 cable is available in a range of sizes from 50mm² to 500mm².

Key Features

Voltage Rating
12.7/22 (24)kV

Minimum Bending Radius
15 x Overall Diameter

Flame Retardancy
BS EN/IEC 60332-1
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

- BS 7835
- IEC/EN 61034-1/2,
- IEC/EN 60754-1/2
- BS EN/IEC 60332-1-2 & BS EN/IEC 60332-3-24

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
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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 12.7/22kV - 50mm² to 500mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
22KVXLPE1X50	50	1	1.40	32.0	1505
22KVXLPE1X70RD	70	1	1.47	34.0	1807
22KVXLPE1X70BK	70	1	1.47	34.5	1807
22KVXLPE1X95	95	1	1.54	36.5	2099
22KVXLPE1X120	120	1	1.57	37.5	2500
22KVXLPE1X150	150	1	1.64	40.0	2745
22KVXLPE1X185	185	1	1.70	41.5	3095
22KVXLPE1X240	240	1	1.78	45.0	4000
22KVXLPE1X300	300	1	1.82	47.5	4598
22KVXLPE1X400	400	1	1.9	50.0	5595
22KVXLPE1X500	500	1	2.0	54.0	6745

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