

BS7835 3 Core Armoured Power Cable 33kV - XLPE, PET, SWA, LSZH - 95mm² to 185mm²



Description

The 33KV triple core power cable, is just a small part of our medium voltage cable range, it is suitable for power networks, underground, outdoors and installation in cable ducting. Please note: the red outer sheath can be prone to fading when exposed to UV rays.

Key Features



Voltage Rating
33kV



Minimum Bending Radius
12 x Overall Diameter



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



Temperature Limits
Temperature Range: -15°C to + 90°C



Temperature Limits
Maximum conductor operating temperature: 90°C
Initial temperature at S.C.C for metallic screen: 80°C
Maximum conductor temperature during short circuit: 250°C

Core Colours

Brown Black Grey Tapes

Standards

- BS 7835
- BS EN/IEC 60332-1-2
- BS EN/IEC 50267-2-1
- BS EN/IEC 60228
- BS EN / IEC 60332-3-24
- BS EN/IEC 60754-1

Construction

- **Conductor:** Class 2 stranded copper conductor
- **Conductor Screen:** Bonded semi conductive cross linked polyethylene (XLPE)
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Insulation Screen:** Semi-Conductive (XLPE)
- **Filler:** Polyethylene Terephthalate fibers (PET)
- **Metallic Screen:** Individual or overall copper tape screen
- **Separator:** Binding Tape
- **Bedding:** Low Smoke Zero Halogen (LSZH)
- **Armour:** Steel Wire Armour (SWA)
- **Outer Sheath:** Low Smoke Zero Halogen (LSZH)
- **Sheath Colour:** Red or Black

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 3 Core Armoured Power Cable 33kV - XLPE, PET, SWA, LSZH - 95mm² to 185mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
33KVLSF3X95RD	95	3	19/2.52	85.3	12020
33KVLSF3X185RD	185	3	37/2.52	96	20000

22KV AND 33KV 3 CORE ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	MAX DC RESISTANCE AT 20°C	CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50hz	CAPACITANCE	CHARGING CURRENT	DIELECTRIC LOSSES	RESISTANCE AT 50HZ	CONDUCTOR S.C.C FOR 1 SEC	ARMOUR S.C.C FOR 1 SEC	SCREEN S.C.C FOR 1 SEC	CURRENT RATING		
										LAID IN GROUND	LAID IN DUCT	LAID IN FREE AIR
MM ²	(Ω/km)	(Ω/km)	mF/km	(A/Km)	(W/Km)	(Ω/km)	(KA)	(KA)	(KA)	AMPS	AMPS	AMPS
70	0.268	0.342	0.363	0.605	15.35	0.102	10.01	19.3	0.9	255	215	290
95	0.193	0.247	0.398	0.662	16.81	0.099	13.585	20.47	1	300	255	350
120	0.153	0.196	0.435	0.723	18.37	0.096	17.16	21.4	1.1	340	285	400
150	0.124	0.159	0.477	0.793	20.15	0.092	21.45	22.1	1.2	385	320	450
185	0.0991	0.128	0.516	0.859	21.81	0.089	26.455	22.4	1.2	425	365	510
240	0.0754	0.098	0.579	0.964	24.47	0.086	34.32	23.8	1.4	495	415	595
300	0.0601	0.078	0.642	1.068	27.13	0.084	42.9	24.1	1.5	560	470	680
400	0.047	0.062	0.71	1.181	30	0.081	57.2	25.8	1.6	630	530	785

Electrical Data:

Maximum conductor operating temperature: 90°C
Maximum screen operating temperature: 80°C
Maximum conductor temperature during S.C: 250°C

Laying conditions at trefoil formation are as below:

Soil thermal resistivity: 120°C. Cm/Watt
Burial depth: 0.5m
Ground temperature: 15°C
Air temperature: 25°C
Frequency: 50Hz

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.