## BS7835 3 Core Armoured Power Cable 33kV - CU, XLPE, PET, SWA, LSZH - 95mm<sup>2</sup> to 185mm<sup>2</sup>



#### **Description**

The 33KV triple core copper 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.

#### **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 operating temp: 90°C Initial temperature at S.C.C for screen: 80°C Maximum temp during short circuit: 250°C

#### **Core Colours**













#### **Standards**

- BS 7835
- BS EN/IEC 60332-1-2
- 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 XLPE
- Insulation: Cross Linked polyethylene (XLPE)
- Insulation Screen: Semi-Conductive XLPE
- Filler: Polyethylene Terephthalate fibers (PET)
- Metallic Screen: Copper Wires plus Copper tape
- Bedding: Low Smoke Zero Halogen (LSZH)
- Armour: Steel Wire Armour (SWA)
- 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.







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

















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# BS7835 3 Core Armoured Power Cable 33kV - CU, 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		

















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#### 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 <sup>2</sup>	( 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:
Maximum screen operating temperature:
Maximum conductor temperature during S.C:

Laying conditions at trefoil formation are as below: Soil thermal resistivity: 120°C. Cm/Watt 0.5m 15°C 25°C 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.

















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