

## BS7835 3 Core Armoured Power Cable 22kV - XLPE, PET, SWA, LSZH - 95mm



The 22KV 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



#### Installation Guidelines

Should not be installed at temperatures below 0°C or above +40°C



#### Voltage Rating

22kV



#### Minimum Bending Radius

As Per Manufacturers Datasheet



#### Temperature Limits

Ambient Temperature: -15°C to + 90°C

### Construction

- **Conductor:** Stranded Plain Annealed Circular Compacted Copper Conductors
- **Conductor Screen:** Semi-Conductive material
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Insulation Screen:** Semi-Conductive (XLPE)
- **Bedding:** LSZH (Low smoke Zero Halogen)
- **Filler:** Polyethylene Terephthalate fibers (PET)
- **Metallic Screen:** Individual or overlapped copper tape screen
- **Sheath:** Low Smoke Zero Halogen (LSZH)
- **Separator:** Binding Tape
- **Armour:** Steel Wire Armour (SWA)

### Standards

- BS 7835, BS EN/IEC 60754-1, BS EN/IEC 60228, BS EN/IEC 60332-1-2

### Core Colours

Brown

Black

Grey

Tapes

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		
										LAI D IN GROUND	LAI D IN DUCT	LAI D 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: 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.

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