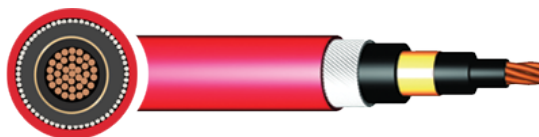


## BS7835 Single Core Armoured Power Cable 11kV - XLPE, AWA, LSZH - 50mm<sup>2</sup> to 630mm<sup>2</sup>



## Description

Medium voltage power and distribution cable, used for supply networks. The low smoke halogen free construction makes this cable ideal for use in public buildings. Please note: Red outer sheath can be prone to fading when exposed to UV rays.

## Key Features



**Voltage Rating**  
6.35kV / 11kV (11kV)  
Tested To Voltage And Duration of BS7835



**Minimum Bending Radius**  
15 x Overall Diameter



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



**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

## 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

## Standards

- BS 7835
- IEC 61034-1
- 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)
- **Bedding:** LSZH (Low smoke Zero Halogen)
- **Metallic Screen:** Copper Wire Screen
- **Separator:** Copper Tape with 10% overlap
- **Armour:** Aluminium Wire Armour (AWA)
- **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 Single Core Armoured Power Cable 11kV - XLPE, AWA, LSZH - 50mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Trefoil Cleat	Nylon Cleat Size
10050	50	1	19/1.78	28.7	1200	376AC04	12
10051	70	1	19/2.14	30.5	1461	376AC05	14
10052	95	1	19/2.52	32.2	1761	376AC06	14
10053	120	1	37/2.03	33.8	2049	376AC07	14
10054	150	1	37/2.25	36.2	2451	376AC08	16
10055	185	1	37/2.52	37.9	2848	376AC09	16
10056	240	1	61/2.25	40.4	3470	376AC11	16
10057	300	1	61/2.52	42.6	4103	376AC12	18
10058	400	1	61/2.85	45.6	4995	376AC14	18
10059	500	1	61/3.20	50	6320	376AC17	20
10060	630	1	127/2.52	54	7840	376AC19	TC9

11KV SINGLE 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	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)	AMPS	AMPS	AMPS
70	0.268	0.342	0.303	0.605	15.35	0.127	10.01	0.3	277	227	313
95	0.193	0.247	0.332	0.662	16.81	0.122	13.585	0.3	329	277	376
120	0.153	0.196	0.362	0.723	18.37	0.119	17.16	0.3	370	308	430
150	0.124	0.159	0.397	0.793	20.15	0.115	21.45	0.4	412	345	484
185	0.0991	0.128	0.43	0.859	21.81	0.111	26.455	0.4	460	390	546
240	0.0754	0.098	0.483	0.964	24.47	0.107	34.32	0.4	520	451	629
300	0.0601	0.078	0.535	1.068	27.13	0.103	42.9	0.5	571	507	708
400	0.047	0.062	0.592	1.181	30	0.101	57.2	0.5	609	564	777
500	0.0366	0.049	0.666	33.76	33.76	0.097	71.5	0.6	661	631	863
630	0.0283	0.039	0.76	1.516	38.51	0.095	90.09	0.6	707	698	945
800	0.0221	0.032	0.849	1.694	43.03	0.092	114.4	0.7	750	764	1032

**Electrical Data:**

Maximum conductor operating temperature:  
Maximum screen operating temperature:  
Maximum conductor temperature during S.C.:

90°C  
80°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.