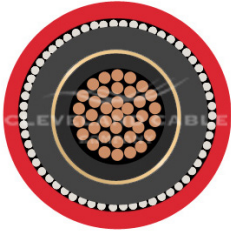


## BS 7835 11KV LSZH SINGLE CORE SCREENED CABLE



### APPLICATION

Medium voltage power and distribution cable is 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 U.V rays.

### CABLE STANDARDS

BS7835

Flame Propagation to BS EN 50265,  
BS EN 50266 (IEC 60332)

Acid gas emission to BS EN 50267 (IEC60754)

Smoke emission to BS EN 50268 (IEC61034)

### CONSTRUCTION

**Conductor:** Stranded Plain Annealed  
Compacted Circular Copper Conductor

**Insulation:** Cross Link Polyethylene (XLPE)

**Metallic Screen:** Individual or overall copper  
tape screen

**Separator:** Copper Tape with 10% Overlap

**Bedding:** LSZH

**Armouring:** Aluminium Wire Armour

**Sheath:** LSZH

**Sheath Colour:** ■ Red ■ Black

### CHARACTERISTICS

**Voltage Rating:** 6350/11000 Volts (12KV)  
Tested to Voltage and Duration of BS 7835

**Temperature Limits:** Up to 90°C

**Minimum Bending Radius:** As per cable  
manufacturer datasheet

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

## BS 7835 11KV LSZH SINGLE CORE SCREENED CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO. OF CORES	WEIGHT (Kg/Km)	Overall Diameter (MM)			NYLON CLEAT SIZE	TREFOIL CLEAT
					Under Armour	Over Armour	Overall MM		
10050	50	19/1.78	1	1200	21.7	24.9	28.5	12	376AC04
10051	70	19/2.14	1	1461	23	26.2	30.0	14	376AC05
10052	95	19/2.52	1	1761	24.7	27.9	31.7	14	376AC06
10053	120	37/2.03	1	2049	26.7	29.9	33.9	14	376AC07
10054	150	37/2.25	1	2451	27.5	31.5	35.7	16	376AC08
10055	185	37/2.52	1	2848	29.3	33.3	37.5	16	376AC09
10056	240	61/2.25	1	3470	31.6	35.6	40.0	16	376AC11
10057	300	61/2.52	1	4103	34.6	38.6	43.0	18	376AC12
10058	400	61/2.85	1	4995	37	41.0	45.8	18	376AC14
10059	500	61/3.20	1	6320	40.5	45.5	50.5	20	376AC17
10060	630	127/2.52	1	7840	44.6	49.6	54.8	TC9	376AC19

## BS 7835 11KV LSZH SINGLE CORE SCREENED CABLE- ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	MAXIMUM CONDUCTOR DC RESISTANCE AT (20°C Ω/Km)	CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50HZ (20°C Ω/KM)	CAPACITANCE mF/Km	CHARGING CURRENT (A/Km)	DIELECTRIC LOSSES (W/Km)	RSISTANCE AT 50HZ (Ω/KM)	CONDUCTOR S.C.C FOR 1 SEC (KA)	SCREEN S.C.C FOR 1 SEC (KA)	CURRENT RATING		
									LAI D IN GROUND A	LAI D IN DUCT A	LAI D IN FREE AIR A
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	30.00	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

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

#### 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.