

## BS6724 3 Core Mains Cable 3.3kV - XLPE,SWA, LSZH - 16mm<sup>2</sup> to 300mm<sup>2</sup>



### Description

Cleveland Cable Company stocks a large range of 3.3kV (3300V) 3 core Low Smoke Zero Halogen (LSZH) mains cables, available in sizes 16mm to 300mm and manufactured to British Standard BS6724. The 3 core mains cable is medium voltage power cable designed for installation indoors. This cable can be used in public places where increased safety is required due to Low Smoke Zero Halogen (LSZH) outer sheath.

### Key Features



**Voltage Rating**  
1.9kV-3.3kV



**Minimum Bending Radius**  
Fixed: 12 x overall diameter



**Flame Retardancy**  
BS EN/IEC 60332-1-2  
BS EN/IEC 60332-3-24



**Temperature Limits**  
Temperature Range: -15°C to + 90°C  
Maximum short-circuit temperature: 250°C

### Core Colours

3 core - Brown Black Grey

### Standards

- BS6724
- IEC/EN 61034-1/2,
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- BS EN/IEC 60754-1

### Construction

- **Conductor:** Class 2 stranded copper conductor
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Bedding:** LSZH (Low smoke Zero Halogen)
- **Armour:** Steel Wire Armour (SWA)
- **Outer Sheath:** Low Smoke Zero Halogen (LSZH)
- **Sheath Colour:** 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**

## BS6724 3 Core Mains Cable 3.3kV - XLPE,SWA, LSZH - 16mm<sup>2</sup> to 300mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
LSF3X16/3	16	3	7/1.70	29.5	1600	1.2	32
LSF3X25/3	25	3	7/2.14	32.3	2060	1.4	32
LSF3X35/3	35	3	7/2.52	35	2330	1.4	40
LSF3X50/3	50	3	19/1.78	34.9	3040	1.4	40
LSF3X70/3	70	3	19/2.14	38	3800	1.6	40
LSF3X95/3	95	3	19/2.52	41.4	4730	1.8	50S
LSF3X120/3	120	3	37/2.03	45.6	6070	1.8	50S
LSF3X150/3	150	3	37/2.25	48.3	7010	2	50
LSF3X185/3	185	3	37/2.52	51.6	8270	TC9	50
LSF3X240/3	240	3	61/2.25	56.5	10310	TC9	63S
LSF3X300/3	300	3	61/2.52	60.7	12300	TC10	63



TABLE 4E3A

## CURRENT-CARRYING CAPACITY (Amps)

Ambient temperature: 30°C  
Conductor operating temperature: 90°C

Conductor cross sectional area	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)										
	Touching		Touching			Spaced by one cable diameter							
	2 cables, single phase AC or DC flat	3 or 4 cables, three phase AC flat	2 cables, single phase AC or DC flat	3 cables, three phase AC flat	4 cables, three phase AC Trefoil	2 cables, DC	2 cables, single- phase AC	3 or 4 cables, three- phase AC	Horizontal	Vertical	Horizontal	Vertical	Horizontal
(mm <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
50	237	220	253	232	222	284	270	282	266	288	266		
70	303	277	322	293	285	356	349	357	337	358	331		
95	367	333	389	352	346	446	426	436	412	425	393		
120	425	383	449	405	402	519	497	504	477	485	449		
150	488	437	516	462	463	600	575	566	539	549	510		
185	557	496	587	524	529	688	660	643	614	618	574		
240	656	579	689	612	625	815	782	749	714	715	666		
300	755	662	792	700	720	943	906	842	805	810	755		
400	853	717	899	767	815	1137	1094	929	889	848	797		
500	962	791	1016	851	918	1314	1266	1032	989	923	871		
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940		
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978		
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041		

\* with or without a protective conductor

1. Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).

2. Where it is intended to group a cable in this table with other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).

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.

