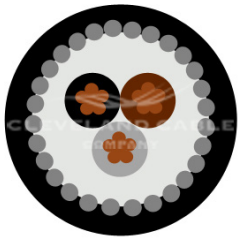


## BS6724 LSZH MULTICORE MAINS & CONTROL (25 - 400MM)



### APPLICATION

Used in power networks, indoor, outdoor, underground. Can be used in cable ducting for installation where fire, smoke emissions and toxic fumes create a potential threat to life and equipment.

### CONSTRUCTION

**Conductor:** Plain Annealed Stranded Copper Conductors

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

**Bedding:** Low Smoke and Zero Halogen (LSZH)

**Armouring:** Galvanised Steel Wire Armour

**Sheath:** Low Smoke and Zero Halogen (LSZH)

**Sheath Colour:** Black

### CABLE STANDARDS

BS6724,  
Acid gas emission to BS EN 50267 (IEC 60754-1)  
Smoke emission to BS EN 50268 (IEC 61034)  
Flame propagation: IEC 60332-1,  
IEC60332-3,  
BS EN 50265, Category C;  
BS EN 50266

### CHARACTERISTICS

**Voltage Rating:** 600/1000 Volts

**Temperature Limits:** -25°C to +90°C

**Minimum Bending Radius:**

As per cable manufacturer datasheet

### CORE IDENTIFICATION

2 Core: Brown Blue

3 Core: Brown Black Grey

4 Core: Brown Black Grey Blue

5 Core: Brown Black Grey Blue Green/Yellow

Additionally these cables are stocked with:

3 Core: Brown Blue Green/Yellow

5 Core and above: up to 6mm<sup>2</sup>: White

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

## BS6724 LSZH MULTICORE MAINS & CONTROL (25 - 400MM) – DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER (MM)	GLAND SIZE (MM)	CLEAT SIZE
LSF2X25	25	7/2.14	2	1050	20.00	25	0.8
LSF3X25	25	7/2.14*	3	1500	23.00	25	1.0
LSF4X25	25	7/2.14	4	1800	25.00	32	1.0
LSF5X25	25	7/2.14	5	2200	29.00	32	1.2
LSF2X35	35	7/2.52	2	1400	22.00	25	0.9
LSF3X35	35	7/2.52	3	1800	26.00	32	1.1
LSF4X35	35	7/2.52	4	2200	28.00	32	1.2
LSF5X35	35	7/2.52	5	2800	33.00	40	1.4
LSF2X50	50	19/1.78	2	1750	25.00	32	1.0
LSF3X50	50	19/1.78	3	2250	28.00	32	1.2
LSF4X50	50	19/1.78	4	2850	31.00	32	1.4
LSF5X50	50	19/1.78	5	3850	38.00	40	1.6
LSF2X70	70	19/2.14	2	2200	28.00	32	1.2
LSF3X70	70	19/2.14	3	3000	32.00	32	1.4
LSF4X70	70	19/2.14	4	4100	37.00	40	1.6
LSF5X70	70	19/2.14	5	5100	43.00	50S	1.8
LSF2X95	95	19/2.52	2	3000	32.00	32	1.4
LSF3X95	95	19/2.52	3	4150	37.00	40	1.6
LSF4X95	95	19/2.52	4	5200	40.00	50S	1.6
LSF5X95	95	19/2.52	5	7700	52.00	50	TC9
LSF2X120	120	37/2.03	2	3600	35.00	40	1.4
LSF3X120	120	37/2.03	3	4950	40.00	50S	1.6
LSF4X120	120	37/2.03	4	6700	46.00	50	2.0
LSF5X120	120	37/2.03	5	9030	56.70	63S	TC9
LSF2X150	150	37/2.25	2	4250	37.00	40	1.6
LSF3X150	150	37/2.25	3	6300	45.00	50S	1.8
LSF4X150	150	37/2.25	4	7900	49.00	50	2.0
LSF5X150	150	37/2.25	5	10752	64.31	63	TC11
LSF2X185	185	37/2.52	2	5500	43.00	50S	1.8
LSF3X185	185	37/2.52	3	7650	49.00	50	2.0
LSF4X185	185	37/2.52	4	9650	55.00	63S	TC9
LSF5X185	185	37/2.52	5	11765	64.60	75S	TC11
LSF2X240	240	61/2.25	2	6300	48.00	50	2.0
LSF3X240	240	61/2.25	3	9650	56.00	63S	TC9
LSF4X240	240	61/2.25	4	12400	62.00	63	TC10
LSF5X240	240	61/2.25	5	15000	73.80	75	TC12
LSF2X300	300	61/2.52	2	8200	50.00	50	2.0
LSF3X300	300	61/2.52	3	11550	59.00	63	TC10
LSF4X300	300	61/2.52	4	14800	66.00	75S	TC11
LSF3X400	400	61/2.85	3	14350	65.00	75S	TC11
LSF4X400	400	61/2.85	4	19300	76.60	75	TC14

### BS6724 LSZH MULTICORE MAINS & CONTROL (25 - 400MM) – CARRYING CAPACITY (AMPS)

CONDUCTOR CROSS - SECTIONAL AREA MM <sup>2</sup>	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL)		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING IN GROUND, IN OR AROUND BUILDINGS)	
	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-

### BS6724 LSZH MULTICORE MAINS & CONTROL (25-400MM) - VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA MM <sup>2</sup>	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC mV/A/m			THREE OR FOUR CORE CABLE THREE-PHASE AC mV/A/m		
		R	X	Z	R	X	Z
25	1.85	1.85	0.160	1.900	1.600	0.140	1.650
35	1.35	1.35	0.155	0.350	1.150	0.135	1.150
50	0.98	0.99	0.155	1.000	0.860	0.135	0.870
70	0.67	0.67	0.150	0.690	0.590	0.130	0.600
95	0.49	0.50	0.150	0.520	0.430	0.130	0.450
120	0.39	0.40	0.145	0.420	0.340	0.130	0.370
150	0.31	0.32	0.145	0.350	0.280	0.125	0.300
185	0.25	0.26	0.145	0.290	0.220	0.125	0.260
240	0.195	0.20	0.140	0.240	0.175	0.125	0.210
300	0.155	0.16	0.140	0.210	0.140	0.120	0.185
400	0.12	0.13	0.140	0.190	0.115	0.120	0.165

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

CONDUCTOR OPERATING TEMPERATURE: 90°C  
R = RESISTIVE COMPONENT  
X = REACTIVE COMPONENT  
Z = IMPEDANCE VALUE

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