

Low Voltage Power Cable

BS6724 Cu/XLPE/LSHF/SWA/LSHF 0.6/1kV

Cable Application

Designed for use in mains supply electricity. These cables are provided with mechanical protection and manufactured using low smoke halogen free compounds. This makes them ideal for use in public buildings and areas where fire and smoke emission create a potential threat to equipment and life. The cable meets the requirements for flammability stated in IEC60332-3 Cat. C and EN 50266-2-4 and has low emission of smoke when burning. The cable is manufactured and tested according to BS 6724.

Technical Information

Conductor Material:	Copper, IEC60228
Conductor Shape:	1.5mm ² up to 16mm ² • Circular 25mm ² up to 400mm ² • Sector-shaped
Conductor Flexibility:	Stranded class 2
Insulation:	XLPE (Cross-linked Polyethylene), IEC60502
Armour Type:	Galvanized steel wires
Outer Sheath:	LSHF, IEC60502
Inner Sheath:	LSHF, IEC60502
Colour:	Black
Lead Free:	Yes
Rated Voltage U₀/U (Um):	600/1000V, B6724
Installation Temperature:	Minimum: 0°C • Maximum: 40°C
Installation Type:	Fixed • Indoors and outdoor • Direct burial
Operating Temperature:	Maximum: 90°C
Short-circuit Maximum Conductor Temperature:	250°C
Flame Retardant:	IEC 60332-3 Cat. C
Bending Radius:	1.5mm ² up to 16mm ² = 6 x Ø 25mm ² up to 400mm ² = 8 x Ø

Part number	Cross section mm ²	Stranding mm	Approx weight kg/km	Approx overall diameter	Gland size mm	Single cleat	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating laid direct amp
-------------	-------------------------------	--------------	---------------------	-------------------------	---------------	--------------	---	--------------------------------

2 Core: Brown & Blue

SWALSHF2X1.5	2 x 1.5	7/0.53	300	12.3	16	0.5	12.10	38
SWALSHF2X2.5	2 x 2.5	7/0.67	370	12.9	20s	0.5	7.41	49
SWALSHF2X4.0	2 x 4.0	7/0.85	460	13.9	20s	0.6	4.61	65
SWALSHF2X6.0	2 x 6.0	7/1.04	550	15.0	20	0.6	3.08	81
SWALSHF2X10	2 x 10	7/1.35	870	17.05	20	0.7	1.83	109
SWALSHF2X16	2 x 16	7/1.70	1,100	19.5	25	0.8	1.15	141
SWALSHF2X25	2 x 25	7/2.14	1,070	22.1	25	0.8	0.727	183
SWALSHF2X35	2 x 35	7/2.52	1,440	24.95	32	0.9	0.524	219
SWALSHF2X50	2 x 50	19/1.78	1,775	25.4	32	1.0	0.387	259
SWALSHF2X70	2 x 70	19/2.14	2,250	28.5	32	1.2	0.268	317
SWALSHF2X95	2 x 95	19/2.52	3,190	32.55	32	1.4	0.193	381

Multi Core Low Voltage Power Cable



Low Voltage Power Cable

Part number	Cross section mm ²	Stranding mm	Approx weight kg/km	Approx overall diameter	Gland size mm	Single cleat	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating laid direct amp
2 Core: Brown & Blue								
SWALSHF2X120	2 x 120	37/2.03	3,700	35.6	40	1.4	0.153	433
SWALSHF2X150	2 x 150	37/2.25	4,375	38.15	40	1.6	0.124	485
SWALSHF2X185	2 x 185	37/2.52	5,650	43.85	50s	1.8	0.0991	547
SWALSHF2X240	2 x 240	61/2.52	7,090	48.5	50	2.0	0.0754	632
SWALSHF2X300	2 x 300	61/2.85	8,475	51.75	63s	2.0	0.0601	708
SWALSHF2X400	2 x 400	61/3.20	10,700	59.0	63	TC9	0.0470	1
3 Core: Brown, Black & Grey								
SWALSHF3X1.5	3 x 1.5	7/0.53	341	12.17	16	0.5	12.10	32
SWALSHF3X2.5	3 x 2.5	7/0.67	374	13.55	20s	0.6	7.41	42
SWALSHF3X4.0	3 x 4.0	7/0.85	458	14.68	20s	0.6	4.61	55
SWALSHF3X6.0	3 x 6.0	7/1.04	558	15.87	20	0.7	3.08	69
SWALSHF3X10	3 x 10	7/1.35	841	18.63	20	0.8	1.83	92
SWALSHF3X16	3 x 16	7/1.70	1,070	20.78	25	0.9	1.15	119
SWALSHF3X25	3 x 25	7/2.14	1,625	24.9	32	1.0	0.727	152
SWALSHF3X35	3 x 35	7/2.52	1,950	27.8	32	1.1	0.524	182
SWALSHF3X50	3 x 50	19/1.78	2,300	28.0	32	1.2	0.387	217
SWALSHF3X70	3 x 70	19/2.14	3,075	32.2	32	1.4	0.268	266
SWALSHF3X95	3 x 95	19/2.52	4,225	37.0	40	1.6	0.193	319
SWALSHF3X120	3 x 120	37/2.03	5,100	40.2	50s	1.8	0.153	363
SWALSHF3X150	3 x 150	37/2.25	6,510	45.3	50s	1.8	0.124	406
SWALSHF3X185	3 x 185	37/2.52	7,845	49.5	50	2.0	0.0991	458
SWALSHF3X240	3 x 240	61/2.52	9,900	55.6	63s	TC9	0.0754	529
SWALSHF3X300	3 x 300	61/2.85	13,560	59.6	63	TC10	0.0601	592
SWALSHF3X400	3 x 400	61/3.20	14,720	65.8	75s	TC11	0.0470	667
4 Core: Brown, Black, Grey & Blue								
SWALSHF4X1.5	4 x 1.5	7/0.53	351	12.88	20s	0.5	12.10	32
SWALSHF4X2.5	4 x 2.5	7/0.67	429	14.43	20s	0.6	7.41	42
SWALSHF4X4.0	4 x 4.0	7/0.85	538	16.87	20	0.6	4.61	55
SWALSHF4X6.0	4 x 6.0	7/1.04	670	17.87	20	0.7	3.08	69
SWALSHF4X10	4 x 10	7/1.35	998	20.1	25	0.8	1.83	92
SWALSHF4X16	4 x 16	7/1.70	1,272	22.4	25	0.9	1.15	119
SWALSHF4X25	4 x 25	7/2.14	1,940	27.0	32	1.0	0.727	152
SWALSHF4X35	4 x 35	7/2.52	2,390	30.1	32	1.2	0.524	182
SWALSHF4X50	4 x 50	19/1.78	2,925	31.5	32	1.4	0.387	217
4 Core: Brown, Black, Grey & Blue								
SWALSHF4X70	4 x 70	19/2.14	4,200	37.4	40	1.6	0.268	266
SWALSHF4X95	4 x 95	19/2.52	5,355	40.9	50s	1.8	0.193	319
SWALSHF4X120	4 x 120	37/2.03	6,925	46.6	50	2.0	0.153	363

Part number	Cross section mm ²	Stranding mm	Approx weight kg/km	Approx overall diameter	Gland size mm	Single cleat	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating laid direct amp
-------------	-------------------------------	--------------	---------------------	-------------------------	---------------	--------------	---	--------------------------------

4 Core: Brown, Black, Grey & Blue

SWALSHF4X150	4 x 150	37/2.25	8,200	50.2	50s	2.0	0.124	406
SWALSHF4X185	4 x 185	37/2.52	9,975	55.8	63s	TC9	0.0991	458
SWALSHF4X240	4 x 240	61/2.52	12,700	62.5	63	TC10	0.0754	529
SWALSHF4X300	4 x 300	61/2.85	15,275	67.4	75s	TC11	0.0601	592
SWALSHF4X400	4 x 400	61/3.20	19,875	77.0	75	TC12	0.0470	667

5 Core: White Numbered Cores with Black Print

SWALSHF5X1.5	5 x 1.5	7/0.53	395	13.72	20s	0.6	12.10	32
SWALSHF5X2.5	5 x 2.5	7/0.67	497	15.46	20s	0.6	7.41	42
SWALSHF5X4.0	5 x 4.0	7/0.85	674	17.38	20	0.7	4.61	55
SWALSHF5X6.0	5 x 6.0	7/1.04	868	19.05	20	0.8	3.08	69
SWALSHF5X10	5 x 10	7/1.35	1,197	22.06	25	0.9	1.83	92
SWALSHF5X16	5 x 16	7/1.70	1,780	24.14	25	1.1	1.15	119
SWALSHF5X25	5 x 25	7/2.14	2,435	28.4	32	1.2	0.727	152
SWALSHF5X35	5 x 35	7/2.52	2,800	33	40	1.4	0.524	182
SWALSHF5X50	5 x 50	19/1.78	3,850	38.0	40	1.6	0.387	217
SWALSHF5X70	5 x 70	19/2.14	5,100	42.9	50s	1.8	0.268	266
SWALSHF5X95	5 x 95	19/2.52	7,700	52.1	50	TC9	0.193	319
SWALSHF5X120	5 x 120	37/2.03	9,035	56.7	63s	TC9	0.153	363
SWALSHF5x150	5 x 150	37/2.25	10,755	64.31	63	TC11	0.124	406

7 Core: White Numbered Cores with Black Print

SWALSHF7X1.5	7 x 1.5	7/0.53	449	14.65	20s	0.6	12.10	32
SWALSHF7X2.5	7 x 2.5	7/0.67	564	16.53	20	0.8	7.41	42
SWALSHF7X4.0	7 x 4.0	7/0.85	824	18.96	20	0.8	4.61	55
SWALSHF7X6.0	7 x 6.0	7/1.04	1,105	21.6	25	0.9	3.08	69
SWALSHF7X10	7 x 10	7/1.35	1,610	25.3	25	1	1.83	98
SWALSHF7X16	7 x 16	7/1.70	2,225	28.45	32	1.2	1.15	119
SWALSHF7X25	7 x 25	7/2.14	3,880	38.4	32	1.4	0.727	152

12 Core: White Numbered Cores with Black Print

SWALSHF12X1.5	12 x 1.5	7/0.53	756	18.9	25	0.8	12.10	32
SWALSHF12X2.5	12 x 2.5	7/0.67	971	21.76	25	0.9	7.41	42
SWALSHF12X4.0	12 x 4.0	7/0.85	1,403	25.97	25	1.0	4.61	55
SWALSHF12X6.0	12 x 6.0	7/1.04	1,910	28.1	32	1.2	3.08	69
SWALSHF12X10	12 x 10	7/1.35	2,590	32.4	32	1.4	1.83	98

19 Core: White Numbered Cores with Black Print

SWALSHF19X1.5	19 x 1.5	7/0.53	992	21.99	25	0.9	12.10	32
SWALSHF19X4.0	19 x 4.0	7/0.85	1,870	28.46	32	1.1	4.61	55
SWALSHF27X1.5	27 x 1.5	7/0.53	1,470	21.99	25	1	12.10	32

Low Voltage Power Cable

Part number	Cross section mm ²	Stranding mm	Approx weight kg/km	Approx overall diameter	Gland size mm	Single cleat	Nom. Max. DC-resist conductor 20°C ohm/km	Current rating laid direct amp
27 Core: White Numbered Cores with Black Print								
SWALSHF27X2.5	27 x 2.5	7/0.67	1,905	30.1	32	1.2	7.41	42
SWALSHF27X4.0	27 x 4.0	7/0.85	2,495	33.2	32	1.4	4.61	55
37 Core: White Numbered Cores with Black Print								
SWALSHF37X1.5	37 x 1.5	7/0.53	1,640	21.99	32	1.1	12.10	32
SWALSHF37X2.5	37 x 2.5	7/0.67	2,363	30.1	40	1.4	7.41	42
SWALSHF37X4.0	37 x 4.0	7/0.85	3,090	33.2	40	1.4	4.61	55
48 Core: White Numbered Cores with Black Print								
SWALSHF48X1.5	48 x 1.5	7/0.53	2,175	30.0	40	1.2	12.10	32
SWALSHF48X2.5	48 x 2.5	7/0.67	3,115	37.4	40	1.6	7.41	42
SWALSHF48X4.0	48 x 4.0	7/0.85	4,110	44.5	50s	1.8	4.61	55

Suitable gland types:

BW LSF: Internal use only

CW LSF: Internal and external

E1W: External double compression

E1WF: Flameproof