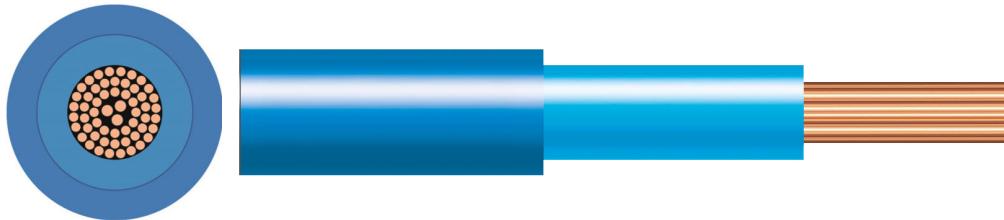


6381-B LSZH FLEXIBLE DC POWER CABLE BS7211 450/750V



This flexible single-core LSZH telecoms cable is designed for use in DC power supplies on telecoms equipment and other power applications requiring flexibility. Its LSZH construction makes it suitable for installations where fire, smoke emission, and toxic fumes pose a risk to life and equipment. Ideal for the telecoms industry and other power supply applications, this cable ensures safety and flexibility in various installations.

CONDUCTOR	Plain Copper
STRANDING	Class 5
INSULATION	XLPE
OUTERSHEATH	LSZH
OUTERSHEATH COLOUR	Blue, Grey
RATED VOLTAGE	450/750v
MINIMUM BENDING RADIUS	Up to 50mm ² : 3 x overall diameter 70mm ² and above: 4 x overall diameter
OPERATING TEMPERATURE	Fixed: 0°C to +90°C
STANDARDS	BS 7211, IEC 60502-1, EN 60228 Flame Retardant according to IEC/EN 60332-1-2

SPECIFICATION DATA

BATT Part No	Sheath Colour	Nominal cross sectional area of conductor		Radial thickness of insulation	Nominal thickness off extruded bedding		Nominal steel armour wire diameter	Nominal thickness of oversheath	Approx overall diameter	Weight
45633	Blue	16		0.7					8.4	177
45634	Grey	16		0.7					8.4	177
45635	Blue	25		0.9					10.3	266
45636	Grey	25		0.9					10.3	266
45796	Grey	35		0.9					11.5	365
45797	Blue	35		0.9					11.5	365

RATING TABLES

TABLE 4E1A – Single-core 90 °C thermosetting insulated cables, non-armoured, with or without sheath (COPPER CONDUCTORS)

COPPER CONDUCTORS

CURRENT-CARRYING CAPACITY (amperes):

Conductor cross-sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray etc horizontal or vertical etc)			Reference Method G (in free air) Spaced by one cable diameter		
	2 cables, single-phase AC or DC	3 or 4 cables, three-phase AC	2 cables, single-phase AC or DC	3 or 4 cables, three-phase AC	2 cables, single-phase AC or DC flat and touching	3 or 4 cables, three-phase AC flat and touching or trefoil	2 cables, single-phase AC flat	3 cables, three-phase AC flat	3 cables, three-phase AC trefoil	2 cables, single-phase AC or DC or 3 cables three-phase AC flat	Horizontal	Vertical
	I (mm ²)	2	3	4	5	6	7	8	9	10	11	12
1	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1	14	13	17	15	19	17.5	-	-	-	-	-	-
1.5	19	17	23	20	25	23	-	-	-	-	-	-
2.5	26	23	31	28	34	31	-	-	-	-	-	-
4	35	31	42	37	46	41	-	-	-	-	-	-
6	45	40	54	48	59	54	-	-	-	-	-	-
10	61	54	75	66	81	74	-	-	-	-	-	-
16	81	73	100	88	109	99	-	-	-	-	-	-
25	106	95	133	117	143	130	161	141	135	182	161	
35	131	117	164	144	176	161	200	176	169	226	201	
50	158	141	198	175	228	209	242	216	207	275	246	
70	200	179	253	222	293	268	310	279	268	353	318	
95	241	216	306	269	355	326	377	342	328	430	389	
120	278	249	354	312	413	379	437	400	383	500	454	
150	318	285	393	342	476	436	504	464	444	577	527	
185	362	324	449	384	545	500	575	533	510	661	605	
240	424	380	528	450	644	590	679	634	607	781	719	
300	486	435	603	514	743	681	783	736	703	902	833	
400	-	-	683	584	868	793	940	868	823	1085	1008	
500	-	-	783	666	990	904	1083	998	946	1253	1169	
630	-	-	900	764	1130	1033	1254	1151	1088	1454	1362	
800	-	-	-	-	1288	1179	1358	1275	1214	1581	1485	
1000	-	-	-	-	1443	1323	1520	1436	1349	1775	1671	

NOTES:

- 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).
- 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).
- For cables having flexible conductors see section 2.4 of this appendix for adjustment factors for current-carrying capacity and voltage drop.

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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