



6181B BS 6724 Cable



BS 6724



APPLICATION

Low Smoke Zero Halogen fixed installation, domestic and light industrial double insulated building wire.

CONSTRUCTION

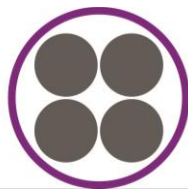
Conductor	1mm ² to 2.5mm ²
to BS EN 60228	Class 1 solid copper conductor
	4mm ² to 25mm ²
Insulation	LSZH (Low Smoke Zero Halogen)
Sheath	LSZH (Low Smoke Zero Halogen)

CHARACTERISTICS

Voltage Rating (U _o /U)	300/500V
Temperature Rating	Fixed: -15°C to +70°C
Minimum Bending Radius	1mm ² to 6mm ² 3 x overall diameter
	10mm ² to 25mm ² 4 x overall diameter

Core Insulation colour	Blue or Brown
Sheath Colour	Grey

Premier Part No	number of cores	Nominal Cross Section mm ²	Nominal Diameter Overall mm	Nominal Weight kg/km
240001X001LS	1	1	4.1	28
24001X001.5LS	1	1.5	4.6	34
24001X002.5LS	1	2.5	5.3	49
24001X004LS	1	4	6.1	75
24001X006LS	1	6	6.7	99
24001X010LS	1	10	8.1	155
24001X016LS	1	16	9.3	225
24001X025LS	1	25	11.1	340



Conductor	Nominal Cross Sectional area mm ²	Maximum resistance of Conductor at 20°C	
		Plan Wires	Metal Coated Wires
		ohms/km	ohms/km
Class 1	1	18.1	18.2
Class 1	1.5	12.1	12.2
Class 1	2.5	7.41	7.56
Class 2	4	4.61	4.7
Class 2	6	3.08	3.11
Class 2	10	1.83	1.84
Class 2	16	1.15	1.16
Class 2	25	0.727	0.734

Current Carrying Capacity amps

Nominal Cross Sectional Area mm ²	Method A In Conduit Insulated Wall		Method B In Conduit Insulated Wall		Method C Clipped Direct		Method F In Free Air or on Perforated Tray					
	2 cables single phase		3 or 4 cables Three phase		2 cables single phase		3 or 4 cables Three phase		3 cables Three Phase		Spaced 2/3 cables AC/DC	
	AC /DC	AC	AC /DC	AC	AC /DC	AC	AC/DC flat	AC flat	AC trefoil	Horizontal/	Vertical	
	AC /DC	AC	AC /DC	AC	AC /DC	AC	AC/DC flat	AC flat	AC trefoil	Horizontal/	Vertical	
1	11	10.5	13.5	12	15.5	14	*	*	*	*	*	
1.5	14.5	13.5	17.5	15.5	20	18	*	*	*	*	*	
2.5	20	18	24	21	27	25	*	*	*	*	*	
4	26	24	32	28	37	33	*	*	*	*	*	
6	34	31	41	36	47	43	*	*	*	*	*	
10	46	42	57	50	65	59	*	*	*	*	*	
16	61	56	76	68	87	79	*	*	*	*	*	
25	80	73	101	89	114	104	131	114	110	146	130	

Voltage Drop

Nominal Cross Sectional Area mm ²	Two Cables		2 Cables Single-Phase AC				3 or 4 Cables Three Phase AC		
	DC		Reference Methods C & F		Reference Methods C & F		Reference Methods C & F		
	Reference Method A & B		Reference Method A & B		Reference Method A & B		Reference Method A & B		
	Enclosed (Conduit)	Cables Touching	Cables Spaced	Enclosed (Conduit)	Cables Trefoil Touching	Cable Flat Touching	Cables Flat Spaced		
1	44	44	44	44	38	38	38	38	
1.5	29	29	29	29	25	25	25	25	
2.5	18	18	18	18	15	15	15	15	
4	11	11	11	11	9.5	9.5	9.5	9.5	
6	7.3	7.3	7.3	7.3	6.4	6.4	6.4	6.4	
10	4.4	4.4	4.4	4.4	3.8	3.8	3.8	3.8	
16	2.8	2.8	2.8	2.8	2.4	2.4	2.4	2.4	
		r / x/z	r / x/z	r / x/z	r / x/z	r / x/z	r / x/z	r / x/z	
25	1.75	1.80/0.33/1.80	1.75/0.20/1.75	1.75/0.29/1.80	150/0.29/1.55	1.50/0.175/1.50	1.50/0.25/1.55	1.50/0.32/1.55	

The information contained within this data sheet is for guidance only.

Cable and gland sizes are nominal and may vary according to different manufacturer's tolerances.

Every possible effort is made to ensure that the information contained in this data sheet is correct.

However, we reserve the right to change the information or specification at any time in the light of technical developments or revisions.

References to or extracts from British Standards, current IEE regulations or other regulatory bodies should be verified with these organisations.