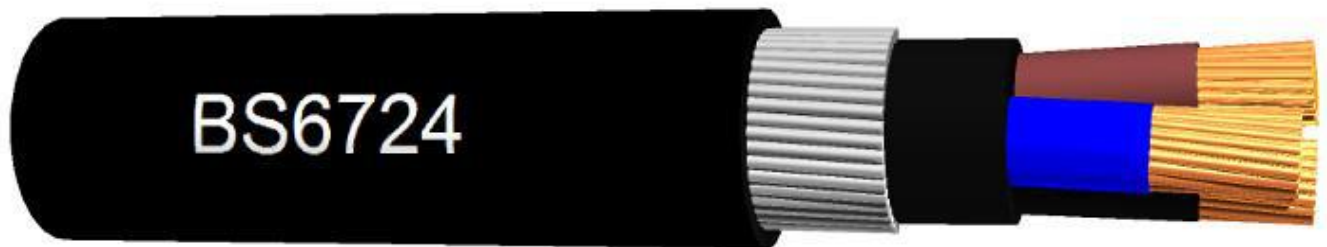


BS6724 0.6-1kV Multi Core SWA LSZH

A steel wire armoured cable for power and auxiliary control



Application

A steel wire armoured cables for power and auxiliary control. For the use in underground, power networks, outdoor and indoor applications and for the use of cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

Construction

Conductor	: Class 2 stranded copper conductor according to BS EN 60228.
Insulation	: XLPE, cross linked polyethylene
Bedding	: LSZH (low smoke halogen free) Type LTS 1
Armour	: SWA, steel wire armour
Sheath	: LSZH (low smoke halogen free) Type LTS 1

Core identification

2 Core	: Brown Blue
3 Core	: Brown Black Grey
4 Core	: Brown Blue Black Grey
5 Core	: Green/Yellow Brown Blue Black Grey
Alternative Core Identification	: White cores with Black numbers

Outer Sheath Colours

Available colours	: Black
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Installation recommendations

Min. Bending Radius during Installation	: 1.5 mm ² to 16 mm ² - fixed - 6xD : 25 mm ² and above – fixed - 8xD
Max. Conductor Operating Temperature	: -25 °C to 90°C

Standards applied

BS 6724	BS EN 50267-2-1 and 2
BS EN/IEC 60502-1	BS EN/IEC 61034-1
BS EN/IEC 60754-1 and 2	BS EN/IEC 60332-1-2
BS EN/IEC 60332-3-24	

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Range and Dimensions

Article Code	Number of cores	Nominal cross sectional area mm ²	Nominal thickness of insulation mm	Nominal Under Armour diameter	Nominal Overall diameter mm	Nominal weight kg/km	BW / CW Gland
P1002C1.5BWWBK4	2	1.5	0.6	7.3	12.1	302	20
P1002C2.5BWWBK4	2	2.5	0.7	8.5	13.6	346	20
P1002C004BWWBK4	2	4	0.7	9.4	14.7	410	20S
P1002C006BWWBK4	2	6	0.7	10.5	15.9	499	20
P1002C010BWWBK4	2	10	0.7	12.3	18	648	20
P1002C016BWWBK4	2	16	0.7	14.3	20.4	978	20
P1002C025BWWBK4	2	25	0.9	14.7	20.4	1290	25
P1002C035BWWBK4	2	35	0.9	16.8	23.3	1500	25
P1002C050BWWBK4	2	50	1	19	25.8	1890	25
P1002C070BWWBK4	2	70	1.1	22	29	2450	32
P1002C095BWWBK4	2	95	1.1	25.1	33.1	3300	32
P1002C120BWWBK4	2	120	1.2	31.1	39.3	4020	40
P1002C150BWWBK4	2	150	1.4	30.9	39.3	4750	40
P1003C1.5BBABK4	3	1.5	0.6	7.8	12.6	330	20
P1003C2.5BBABK4	3	2.5	0.7	9.2	14.1	390	20S
P1003C004BBABK4	3	4	0.7	10	15.3	464	20S
P1003C006BBABK4	3	6	0.7	11.2	16.6	568	20
P1003C010BBABK4	3	10	0.7	13.1	19.5	866	20
P1003C016BBABK4	3	16	0.7	15.3	21.6	1152	25
P1003C025BBABK4	3	25	0.9	18.9	23.6	1800	25
P1003C035BBABK4	3	35	0.9	21.3	25.7	2230	32
P1003C050BBABK4	3	50	1	21.7	28.5	2490	32
P1003C070BBABK4	3	70	1.1	25.2	32.2	3290	32
P1003C095BBABK4	3	95	1.1	28.8	37	4440	40
P1003C120BBABK4	3	120	1.2	32	40.4	5470	40
P1003C150BBABK4	3	150	1.4	35.9	45.5	6930	50S
P1004C1.5BBBCBK4	4	1.5	0.6	8.5	13.5	365	20S
P1004C2.5BBBCBK4	4	2.5	0.7	9.9	15	438	20
P1004C004BBBCBK4	4	4	0.7	11	16.4	532	20
P1004C006BBBCBK4	4	6	0.7	12.3	18.7	764	20
P1004C010BBBCBK4	4	10	0.7	14.5	21.1	1013	25
P1004C016BBBCBK4	4	16	0.7	17	23.4	1360	25
P1004C025BBBCBK4	4	25	0.9	21	26.1	2160	32
P1004C035BBBCBK4	4	35	0.9	23.6	28.6	2690	32
P1004C050BBBCBK4	4	50	1	25	32	3130	32
P1004C070BBBCBK4	4	70	1.1	29.5	37.7	4500	40
P1004C095BBBCBK4	4	95	1.1	33.3	41.7	5600	50S
P1004C120BBBCBK4	4	120	1.2	37.5	47.1	7400	50
P1004C150BBBCBK4	4	150	1.4	41.6	51.4	8780	50
P1004C185BBBCBK4	4	185	1.6	46.4	56.6	10630	63S
P1004C240BBBCBK4	4	240	1.7	52.6	63	13390	63
P1004C300BBBCBK4	4	300	1.8	56.3	68.6	14998	75S
P1005C1.5BDBBK4	5	1.5	0.6	9.7	14.3	410	20S
P1005C2.5BDBBK4	5	2.5	0.7	11.7	16.1	470	20
P1005C004BDBBK4	5	4	0.7	13	17.8	710	20
P1005C006BDBBK4	5	6	0.7	14.5	20	876	25
P1005C010BDBBK4	5	10	0.7	17.2	22.9	1165	25
P1005C016BDBBK4	5	16	0.7	20	26.6	1742	32
P1005C025BDBBK4	5	25	0.9	24.7	31.5	2323	32
P1005C035BDBBK4	5	35	0.9	27.8	34.8	2932	40
P1005C050BDBBK4	5	50	1	32.4	40.4	4192	50S
P1007C1.5BAABK4	7	1.5	0.6	10.2	15.2	470	20S
P1007C2.5BAABK4	7	2.5	0.7	12.3	17.1	600	20
P1012C1.5BAABK4	12	1.5	0.6	13.7	19.4	780	20
P1012C2.5BAABK4	12	2.5	0.7	16.3	22.4	1000	25
P1019C1.5BAABK4	19	1.5	0.6	16.2	22.2	1000	25
P1019C2.5BAABK4	19	2.5	0.7	19.9	26.6	1540	25
P1027C1.5BAABK4	27	1.5	0.6	20	26.7	1500	32
P1027C2.5BAABK4	27	2.5	0.7	24	30.7	1950	32
P1037C1.5BAABK4	37	1.5	0.6	22.3	29	1800	32
P1037C2.5BAABK4	37	2.5	0.7	26.9	33.8	2350	40

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Electrical characteristics

Nominal cross sectional area mm ²	Reference method C (clipped direct) Amps		Reference Method E (in free air or on a perforated cable tray, horizontal or vertical) Amps		Reference Method D (direct in ground or in ducting in ground, in or around buildings) Amps	
	1 Two core cable single-phase AC or DC	1 Three or 1 For core cable Three-phase AC	1 Two core cable single-phase AC or DC	1 Three or 1 For core cable Three-phase AC	1 Two core cable single-phase AC or DC	1 Three or 1 For core cable Three-phase AC
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75
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	606	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-

Air ambient temperature: 30°C

Ground ambient temperature: 20°C

Conductor operating temperature: 90°C

Notes

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 17th Edition of IEE Wiring Regulations).
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D4A) must be used (see also Regulation 523.1 of the 17th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E4A of the 17th Edition of IEE Wiring Regulations

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Voltage drop

Nominal cross sectional area mm ²	Two core cable			Three or four core cable			
	DC	Single-phase AC mV/A/m		Three-phase AC mV/A/m			
1.5	31	31		27			
2.5	19	19		16			
4	12	12		10			
6	7.9	7.9		6.8			
10	4.7	4.7		4			
16	2.9	2.9		2.5			
		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	1.350	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

Conductor operating temperature: 90°C

r = Resistive Component

x = Reactive Component

z = Impedance Value

The above table is in accordance with Table 4E4B of the 17th Edition of IEE Wiring Regulations.

For cables having conductors of 16mm² or less cross sectional area their inductances can be ignored and (mV/A/m)r values only are tabulated. For cables having conductors greater than 16mm², cross sectional area the impedance values are given as (mV/A/m)z, together with the resistive component (mV/A/m)r and the reactive component (mV/A/m)x.

The above paragraph is extracted from Appendix 4 of the 17th Edition of IEE Wiring Regulations.

NOTICE

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