Fire Resistant Power Cable BS6387

Applications: Fire performance cables maintain circuit integrity in a fire and so are suitable for fire detection, alarm and emergency lighting systems

Conductor: Plain annealed stranded copper to BSEN60228 (class 1)

Fire barrier: MGT (Mica glass tape)

Insulation: XLPE (Cross linked polyethylene)

Core identification: 2 core: Brown & blue
3 core: Brown, black & grey
4 core: Brown, grey, blue & black
Multicore: White cores with black numerals

Bedding: LSZH (Low smoke zero halogen)

Armour/Protection: SWA (Single wire armour)

Sheath/Jacket: LSZH (Low smoke zero halogen)

Colour: Black

Voltage: 600/1000v

Operating temperature: Maximum 90°C, minimum bending: -25°C

Minimum Bending Radius: 6 x Overall Diameter for Circular Conductors
8 x Overall Diameter for Shaped Conductors

Standards: BS6387, Categories C, W & Z, Specification for performance requirements for cables required to maintain circuit integrity under fire conditions
IEC60331: Tests for electric cables under fire conditions - circuit integrity
BS EN 61034:2005: Measurement of smoke density of cables burned under defined conditions. Test procedure and requirements
BS6724: Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V, having low emission of smoke and corrosive gases when affected by fire
BS7846: Electric cables. 600/1000 V armoured fire-resistant cables having thermosetting insulation and low emission of smoke and corrosive gases when affected by fire
BS EN 50266:2001: Common test methods for cables under fire conditions. Test for vertical flame spread of vertically-mounted bunched wires or cables
Fire Resistance BS6387 Categories C, W & Z:
IEC60331: 750 deg C for 3 hours
Flame Propagation BS EN 50266 parts 1 and 3, IEC 60332-3, BS EN 60332:2004
Smoke Emission IEC 61034, BS EN 61034:2005
Corrosive Acid Gas BS EN 50267-2-1:1999, IEC 60754-1

No of cores	Size sq.mm	Insulation thickness mm	Diameter of armour wire mm	Approx. diameter under armour	Overall diameter	Weight Kg/km	Max conductor resistance at 20°C ohms/km	Current rating DC or single phase AC clipped direct amps	Current rating DC or single phase AC free air amps	Volt drop DC mV/A/m	Volt drop single phase AC mV/A/m	BATT part no.
2	1.5	0.6	0.9	10.4	14.8	420	12.1	27	29	31	31	57183
2	2.5	0.7	0.9	11.5	13.8	500	7.41	36	39	19	19	57184
2	4	0.7	0.9	12.6	17.2	580	4.61	49	52	12	12	57185
2	6	0.7	0.9	13.8	18.4	660	3.08	62	66	7.9	7.9	57186
2	10	0.7	0.9	15.7	20.5	830	1.83	85	90	4.7	4.7	57187
2	16	0.7	1.25	16.1	21.6	1000	1.15	110	115	2.9	2.9	57188
2	25	0.9	1.6	16.3	22.0	1100	0.727	146	152	1.85	1.9	57189
2	35	0.9	1.6	18.4	25.0	1550	0.524	180	188	1.35	1.35	57190
2	50	1.0	1.6	20.6	27.4	1850	0.387	219	228	0.98	1.0	57191
2	70	1.1	1.6	23.6	30.6	2450	0.268	279	291	0.67	0.69	57192
2	95	1.1	2.0	26.7	34.7	3350	0.193	338	354	0.49	0.52	57193
2	120	1.2	2.0	29.5	37.7	3900	0.153	392	410	0.39	0.42	57194
2	150	1.4	2.5	32.5	40.9	4650	0.124	451	472	0.31	0.35	57195
2	185	1.6	2.5	36.5	36.5	5950	0.0991	515	539	0.25	0.29	57196
2	240	1.7	2.5	40.6	50.6	7350	0.0754	607	636	0.195	0.24	57197
2	300	1.8	2.5	44.9	55.1	8700	0.0601	698	732	0.155	0.21	57198
2	400	2.0	2.5	50.0	60.6	10750	0.0470	787	847	0.120	0.19	57199

No of cores	Size sq.mm	Insulation thickness mm	Diameter of armour wire mm	Approx. diameter under armour	Overall diameter	Weight Kg/km	Max conductor resistance at 20°C ohms/km	Current rating DC or single phase AC clipped direct amps	Current rating DC or single phase AC free air amps	Volt drop DC mV/A/m	Volt drop single phase AC mV/A/m	BATT part no.
3	1.5	0.6	0.9	10.9	15.5	426	12.1	0.20	23	25	27	57212
3	2.5	0.7	0.9	12.2	16.8	540	7.41	0.35	31	33	16	57213
3	4	0.7	0.9	13.4	18.0	640	4.61	0.57	42	44	10	57214
3	6	0.7	0.9	14.7	19.3	740	3.08	0.86	53	56	6.8	57215
3	10	0.7	1.25	16.7	22.2	1080	1.83	1.4	73	78	4.0	52716
3	16	0.7	1.25	17.2	22.9	1310	1.15	2.2	94	99	2.5	57217
3	25	0.9	1.6	20.6	27.2	1800	0.727	3.6	124	131	1.65	57218
3	35	0.9	1.6	22.9	29.7	2200	0.524	5.0	154	162	1.15	57219
3	50	1.0	1.6	23.4	30.2	2450	0.387	7.1	187	197	0.87	57220
3	70	1.1	2.0	26.9	33.9	3200	0.268	10.0	238	251	0.60	57221
3	95	1.1	2.0	30.5	38.7	4450	0.193	13.6	289	304	0.45	57222
3	120	1.2	2.0	33.7	42.1	5300	0.153	17.2	335	353	0.37	57223
3	150	1.4	2.5	37.6	47.2	6700	0.124	21.4	386	406	0.30	57224
3	185	1.6	2.5	41.7	51.5	8080	0.0991	26.5	441	463	0.26	57225
3	240	1.7	2.5	46.6	56.8	9950	0.0754	34.3	520	546	0.21	57226
3	300	1.8	2.5	51.5	61.9	12050	0.0601	42.9	599	628	0.185	57227
3	400	2.0	2.5	57.5	68.3	14800	0.0470	57.2	673	728	0.165	57228
4	1.5	0.6	0.9	11.9	16.5	520	12.1	0.20	23	25	27	57200
4	2.5	0.7	0.9	13.4	18.0	620	7.41	0.35	31	33	16	57201
4	4	0.7	0.9	14.8	19.4	730	4.61	0.57	42	44	10	57202
4	6	0.7	0.9	16.2	21.7	990	3.08	0.86	53	56	6.8	57203
4	10	0.7	1.25	18.6	24.1	1260	1.83	1.4	73	78	4.0	57204
4	16	0.7	1.25	19.1	24.8	1640	1.15	2.2	94	99	2.5	57205
4	25	0.9	1.6	22.9	29.5	2150	0.727	3.6	124	131	1.65	57236
4	35	0.9	1.6	25.5	32.3	2650	0.524	5.0	154	162	1.15	57230
4	50	1.0	1.6	26.9	33.9	3100	0.387	7.1	187	197	0.87	57237
4	70	1.1	2.0	31.4	39.6	4400	0.268	10.0	238	251	0.60	57243
4	95	1.1	2.0	35.2	43.6	5650	0.193	13.6	289	304	0.45	57231
4	120	1.2	2.5	39.4	49.0	7250	0.153	17.2	335	353	0.37	57232
4	150	1.4	2.5	43.5	53.3	8550	0.124	21.4	386	406	0.30	57233
4	185	1.6	2.5	48.3	85.8	10300	0.0991	26.5	441	463	0.26	57234
4	240	1.7	2.5	54.5	64.9	12900	0.0754	34.3	520	546	0.21	57254
4	300	1.8	2.5	59.9	70.7	15550	0.0601	42.9	599	628	0.185	57235
4	400	2.0	3.15	67.3	80.0	20250	0.0470	57.2	673	728	0.165	57253
5	1.5	0.6	0.9	-	11.0	240	12.10	38	31	31	31	-
5	2.5	0.7	0.9	-	12.0	300	7.41	49	41	19	19	-
5	4	0.7	0.9	-	13.0	360	4.61	65	55	12	12	-
5	6	0.7	0.9	-	14.0	440	3.08	81	70	7.90	7.90	-
5	10	0.7	0.9	-	16.0	580	1.83	109	95	4.70	4.70	-
5	16	0.7	0.9	-	19.0	860	1.15	141	126	2.90	2.90	-
5	25	0.9	1.25	-	22.0	1050	0.727	183	164	1.85	1.90	-
5	35	0.9	1.6	-	26.0	1450	0.524	219	202	1.35	1.35	-
5	50	1.0	1.6	-	25.0	1700	0.387	259	244	0.98	1.00	-
5	70	1.1	1.6	-	28.0	2250	0.268	317	306	0.67	0.69	-
5	95	1.1	2.0	-	32.0	3050	0.193	381	378	0.49	0.52	-
5	120	1.2	2.0	-	35.0	3650	0.153	433	437	0.39	0.42	-
5	150	1.4	2.0	-	39.0	4350	0.124	485	499	0.31	0.35	-
5	185	1.6	2.5	-	44.0	5650	0.0991	547	576	0.25	0.29	-
5	240	1.7	2.5	-	47.0	6950	0.0754	632	680	0.195	0.24	-
5	300	1.8	2.5	-	52.0	8350	0.0601	708	775	0.155	0.21	-
5	400	2.0	2.5	-	58.0	11030	0.0470	799	892	0.120	0.190	-
7	1.5	0.6	0.9	-	16.2	520	12.1	27	29	31	31	57130
7	2.5	0.7	0.9	-	18.0	650	7.41	36	39	19	19	57142
12	1.5	0.6	0.9	-	20.9	860	12.1	27	29	31	31	57106
12	2.5	0.7	0.9	-	24.4	1130	7.41	36	39	19	19	57143
19	1.5	0.6	0.9	-	24.1	1130	12.1	27	29	31	31	57145
19	2.5	0.7	0.9	-	29.2	1710	7.41	36	39	19	19	57144

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