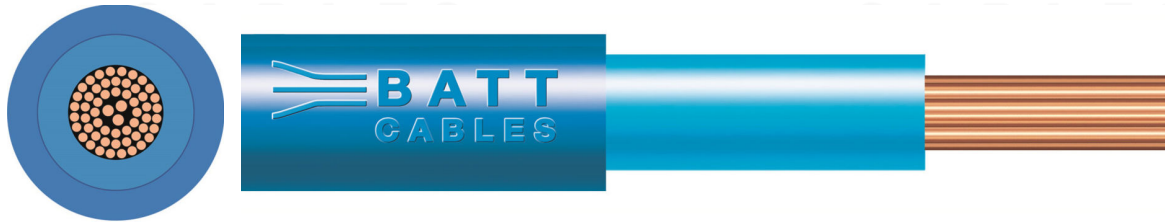


## 6381-Y PVC FLEXIBLE DC POWER CABLE BS6004



This flexible single-core PVC telecoms cable is designed for power supply applications to telecoms and other equipment, where flexibility is crucial. Ideal for use in DC power supplies on telecoms equipment and other power applications requiring flexible cable.

<b>CONDUCTOR</b>	Plain Copper
<b>STRANDING</b>	Class 5
<b>INSULATION</b>	PVC
<b>OUTERSHEATH</b>	PVC
<b>OUTERSHEATH COLOUR</b>	Black, White, Blue, Grey, Brown
<b>RATED VOLTAGE</b>	0.6/1kV
<b>MINIMUM BENDING RADIUS</b>	Up to 50mm <sup>2</sup> : 3 x overall diameter Above 70mm <sup>2</sup> : 4 x overall diameter
<b>OPERATING TEMPERATURE</b>	Maximum 70°C, Minimum bending -15°C
<b>STANDARDS</b>	BS 6004, IEC 60502-1, EN 60228 Flame Retardant according to IEC/EN 60332-1-2 BS6004 is only up to 35sqmm and 50sqmm > is IEC60502

# SPECIFICATION DATA

BATT Part No Black	BATT Part No Grey	BATT Part No Brown	BATT Part No Blue	Nominal cross sectional area of conductor	Diameter of conductor	Radial thickness of insulation	Thickness of oversheath mm	Approx overall diameter	Weight
	37763	37828	37762	2.5					
	37765	37829	37764	4	2.50	1.0	1.2	6.9	82
37518	37636	37830	37517	6	3.00	1.0	1.2	7.4	104
37449	37638	37831	37450	10	4.10	1.2	1.2	8.9	157
37465	37634	37832	37461	16	5.25	1.2	1.2	10.1	220
37468	37602	37833	37469	25	6.60	1.4	1.4	12.2	329
37514	37603	37834	37513	35	7.74	1.4	1.4	13.4	431
37691	37692	37835	37690	50	9.25	1.4	1.4	14.9	575
	37248	37863	37193	70	11.0	1.4	1.4	16.6	764
37077	37396	37837	37088	95	13.1	1.6	1.6	19.5	1033
	37253		37209	120	14.2	1.6	1.6	20.6	1265
	37646		37645	150	15.8	1.8	1.8	23.0	1572
37126	37604		37197	185	18.6	2.0	1.8	26.2	1931
	37722		37721	240	21.0	2.2	1.8	29.0	2471
				300	23.0	2.4	2.0	31.8	3068
				400	30.0	2.6	2.0	39.2	4149

## RATING TABLES

**TABLE 4D1A – Single-core 70 °C thermoplastic insulated cables, non-armoured, with or without sheath (COPPER CONDUCTORS)**

Ambient temperature: 30 °C  
Conductor operating temperature: 70 °C

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 horizontal or vertical)					
	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	Touching			Spaced by one diameter		
							2 cables, single-phase AC or DC 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
1	2	3	4	5	6	7	8	9	10	11	12	
(mm <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
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	
35	99	89	125	110	141	129	162	143	137	181	162	
50	119	108	151	134	182	167	196	174	167	219	197	
70	151	136	192	171	234	214	251	225	216	281	254	
95	182	164	232	207	284	261	304	275	264	341	311	
120	210	188	269	239	330	303	352	321	308	396	362	
150	240	216	300	262	381	349	406	372	356	456	419	
185	273	245	341	296	436	400	463	427	409	521	480	
240	321	286	400	346	515	472	546	507	485	615	569	
300	367	328	458	394	594	545	629	587	561	709	659	
400	-	-	546	467	694	634	754	689	656	852	795	
500	-	-	626	533	792	723	868	789	749	982	920	
630	-	-	720	611	904	826	1005	905	855	1138	1070	
800	-	-	-	-	1030	943	1086	1020	971	1265	1188	
1000	-	-	-	-	1154	1058	1216	1149	1079	1420	1337	

**COPPER CONDUCTORS**

**NOTE:**

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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