

SOLID ALUMINIUM SWA POWER CABLE GENERALLY TO BS5467(WHERE APPLICABLE)

Power cable suitable for power networks, direct burial, outdoors, indoors and in cable ducts

CONDUCTOR	Aluminium
STRANDING	Class 1
INSULATION	XLPE
ARMOUR	Steel Wire Armour
OUTERSHEATH	PVC
OUTERSHEATH COLOUR	Black
RATED VOLTAGE	0.6/1kV
CORE IDENTIFICATION	4 Core: Brown, Black, Grey, Blue
MINIMUM BENDING RADIUS	Overall Bending Radius 10x
OPERATING TEMPERATURE	Maximum 90°C. Minimum bending 0°C
STANDARDS	Generally to BS5467(where applicable)

SPECIFICATION DATA

BATT Part No	Cores	Nominal cross sectional area of conductor	RT of insulation	Diameter over core mm2	RT of bedding	Diameter of armour wire mm2	Diameter over armour mm2	Approx overall diameter	Weight
56201	4	35	0.9	17.9	1.0	1.6	23.3	27	1430
56202	4	50	1.0	20.7	1.0	1.6	26.1	30	1725
56203	4	70	1.1	24.1	1.2	2.0	30.9	35.3	2525
56613	4	95	1.1	27.6	1.2	2.0	34.4	37.7	2800
56205	4	120	1.2	31.0	1.4	2.5	39.2	44	3950
56206	4	150	1.4	34.7	1.4	2.5	42.9	47.	4500
56644	4	185	1.6	38.8	1.4	2.5	47.2	52.7	5164
56208	4	240	1.7	44.0	1.6	2.5	52.8	58.5	6400

RATING TABLES

TABLE 4H4A – Multicore armoured 70 °C thermoplastic insulated cables (ALUMINIUM CONDUCTORS)

Air Ambient temperature: 30 °C
Ground Ambient temperature: 20 °C
Conductor operating temperature: 70 °C

CURRENT-CARRYING CAPACITY (amperes):

Conductor cross-sectional area	Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)		Reference Method D (direct in ground or in ducting in ground, in or around buildings)	
	1 two-core cable, single-phase AC or DC	1 three- or 1 four-core cable, three-phase AC	1 two-core cable, single-phase AC or DC	1 three- or 1 four-core cable, three-phase AC	1 two-core cable, single-phase AC or DC	1 three- or 1 four-core cable, three-phase AC
1	2	3	4	5	6	7
(mm ²)	(A)	(A)	(A)	(A)	(A)	(A)
16	68	58	71	61		
25	89	76	94	80	77	64
35	109	94	115	99	93	77
50	131	113	139	119	109	91
70	165	143	175	151	135	112
95	199	174	211	186	159	132
120	-	202	-	216	-	150
150	-	232	-	250	-	169
185	-	265	-	287	-	190
240	-	312	-	342	-	218
300	-	360	-	399	-	247

TABLE 4H4B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 70 °C

Conductor cross-sectional area	Two-core cable, DC	Two-core cable, single-phase AC			Three- or four-core cable, three-phase AC		
1	2	3			4		
(mm ²)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
16	4.5	4.5			3.9		
		r	x	z	r	x	z
25	2.9	2.9	0.175	2.9	2.5	0.150	2.5
35	2.1	2.1	0.170	2.1	1.80	0.150	1.80
50	1.55	1.55	0.170	1.55	1.35	0.145	1.35
70	1.05	1.05	0.165	1.05	0.90	0.140	0.92
95	0.77	0.77	0.160	0.79	0.67	0.140	0.68
120	-	-	-	-	0.53	0.135	0.55
150	-	-	-	-	0.42	0.135	0.44
185	-	-	-	-	0.34	0.135	0.37
240	-	-	-	-	0.26	0.130	0.30
300	-	-	-	-	0.21	0.130	0.25

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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