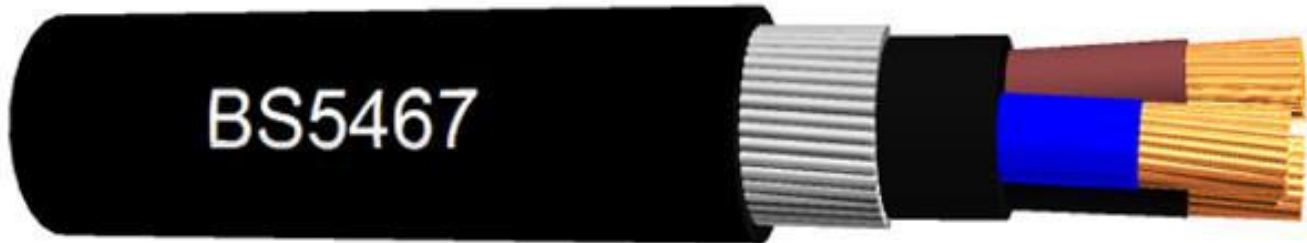


BS5467 0.6/1kV Multi Core SWA PVC

A steel wire armoured cable for power and auxiliary control



Application

An aluminium 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.

Construction

Conductor	: Class 2 stranded copper conductor according to BS EN 60228.
Insulation	: XLPE, cross linked polyethylene
Bedding	: PVC, polyvinyl chloride
Armour	: AWA, aluminium wire armour
Sheath	: PVC, polyvinyl chloride

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 5467
BS EN/IEC 60502-1
BS EN/IEC 60332-1-2

BS5467 0.6/1kV Multi Core SWA PVC

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
P0602C1.5BWVWBK4	2	1.5	0.6	7.3	12.1	302	20
P0602C2.5BWVWBK4	2	2.5	0.7	8.5	13.6	346	20
P0602C004BWVWBK4	2	4	0.7	9.4	14.7	410	20S
P0602C006BWVWBK4	2	6	0.7	10.5	15.9	499	20
P0602C010BWVWBK4	2	10	0.7	12.3	18	648	20
P0602C016BWVWBK4	2	16	0.7	14.3	20.4	978	20
P0602C025BWVWBK4	2	25	0.9	14.7	20.4	1290	25
P0602C035BWVWBK4	2	35	0.9	16.8	23.3	1500	25
P0602C050BWVWBK4	2	50	1	19	25.8	1890	25
P0602C070BWVWBK4	2	70	1.1	22	29	2450	32
P0602C095BWVWBK4	2	95	1.1	25.1	33.1	3300	32
P0602C120BWVWBK4	2	120	1.2	27.9	36.1	4020	40
P0602C150BWVWBK4	2	150	1.4	30.9	39.3	4750	40
P0603C1.5BBABK4	3	1.5	0.6	7.8	12.6	330	20
P0603C2.5BBABK4	3	2.5	0.7	9.2	14.1	390	20
P0603C004BBABK4	3	4	0.7	10	15.3	464	20S
P0603C006BBABK4	3	6	0.7	11.2	16.6	568	20
P0603C010BBABK4	3	10	0.7	13.1	19.5	866	20
P0603C016BBABK4	3	16	0.7	15.3	21.6	1152	20
P0603C025BBABK4	3	25	0.9	18.9	23.6	1800	25
P0603C035BBABK4	3	35	0.9	21.3	25.7	2230	25
P0603C050BBABK4	3	50	1	21.7	28.5	2490	25
P0603C070BBABK4	3	70	1.1	25.2	32.2	3290	32
P0603C095BBABK4	3	95	1.1	28.8	37	4440	32
P0603C120BBABK4	3	120	1.2	32.3	40.4	5470	40
P0603C150BBABK4	3	150	1.4	35.9	45.5	6930	40
P0603C185BBABK4	3	185	1.6	40	49.8	8350	50S
P0603C240BBABK4	3	240	1.7	44.9	55.1	10400	63S
P0603C300BBABK4	3	300	1.8	49.8	60.2	12600	63S
P0603C400BBABK4	3	400	2	55.8	66.6	14600	75S
P0604C1.5BBCBK4	4	1.5	0.6	8.5	13.3	365	20S
P0604C2.5BBCBK4	4	2.5	0.7	9.9	15	438	20
P0604C004BBCBK4	4	4	0.7	11	16.4	532	20
P0604C006BBCBK4	4	6	0.7	12.3	18.7	764	20
P0604C010BBCBK4	4	10	0.7	14.5	21.1	1013	25
P0604C016BBCBK4	4	16	0.7	17	23.4	1360	25
P0604C025BBCBK4	4	25	0.9	21	26.1	2160	32
P0604C035BBCBK4	4	35	0.9	23.6	28.6	2690	32
P0604C050BBCBK4	4	50	1	25	32	3130	32
P0604C070BBCBK4	4	70	1.1	29.5	37.7	4500	40
P0604C095BBCBK4	4	95	1.1	33.3	41.7	5600	50S
P0604C120BBCBK4	4	120	1.2	37.5	47.1	7400	50
P0604C150BBCBK4	4	150	1.4	41.6	51.4	8780	50
P0604C185BBCBK4	4	185	1.6	46.4	56.6	10630	63S
P0604C240BBCBK4	4	240	1.7	52.6	63	13390	63
P0604C300BBCBK4	4	300	1.8	58	68.8	16290	75S
P0604C400BBCBK4	4	400	2	65.4	78.1	19800	90
P0605C1.5BDBK4	5	1.5	0.6	9.7	14.3	410	20S
P0605C2.5BDBK4	5	2.5	0.7	11.7	16.1	470	20
P0605C004 BDBK4	5	4	0.7	13	17.8	710	20
P0605C006BDBK4	5	6	0.7	14.5	20	876	25
P0605C010BDBK4	5	10	0.7	17.2	22.9	1165	25
P0605C016BDBK4	5	16	0.7	20	26.6	1742	32
P0605C025BDBK4	5	25	0.9	24.7	31.5	2323	32
P0605C035BDBK4	5	35	0.9	27.8	34.8	2932	40
P0605C050BDBK4	5	50	1	32.4	40.4	4192	50S
P0607C1.5BAABK4	7	1.5	0.6	10.2	15.2	470	20S
P0607C2.5BAABK4	7	2.5	0.7	12.3	17.1	600	20
P0607C004BAABK4	7	4	0.7	13.6	19.1	881	20
P0612C1.5BAABK4	12	1.5	0.6	13.7	19.4	780	20

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com

BS5467 0.6/1kV Multi Core SWA PVC

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
P0612C2.5BAABK4	12	2.5	0.7	16.3	22.4	1000	25
P0619C1.5BAABK4	19	1.5	0.6	16.2	22.2	1000	25
P0619C2.5BAABK4	19	2.5	0.7	19.9	26.6	1540	25
P0627C1.5BAABK4	27	1.5	0.6	20	26.7	1500	32
P0627C2.5BAABK4	27	2.5	0.7	24	30.7	1950	32
P0637C1.5BAABK4	37	1.5	0.6	22.3	29	1800	32
P0637C2.5BAABK4	37	2.5	0.7	26.9	33.8	2350	40

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

- 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).
- 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

BS5467 0.6/1kV Multi Core SWA PVC

Voltage drop

Nominal cross sectional area mm ²	Two core cable DC	Two core cable Single-phase AC mV/A/m			Three or four core cable 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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T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com

