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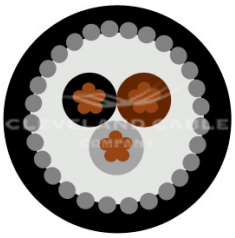
BS 5467 PVC MULTICORE MAINS CABLE (25MM²-400MM²)



APPLICATION

Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

CABLE STANDARDS

Flame propagation to BS EN/IEC 60332-1
BS 5467
BS EN 60228

CONSTRUCTION

Conductor: Class 2 stranded copper conductor

Insulation: Cross linked Polyethylene (XLPE)

Bedding: Polyvinyl Chloride (PVC)

Armour: Steel Wire Armour

Sheath: Polyvinyl Chloride PVC

CHARACTERISTICS

Voltage Rating: 600/1000 Volts

Temperature Limits: Fixed: -15°C to +90°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

2 Core: Brown Blue
3 Core: Brown Black Grey
4 Core: Brown Black Grey Blue
5 Core: Brown Black Grey Blue Green/Yellow

* Additionally these cables are stocked with:
3 Core: Brown Blue Green/Yellow

Should not be installed at temperatures below 0°C or above +60°C

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BS 5467 PVC MULTICORE MAINS CABLE (25MM²-400MM²) - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM²)	STRANDING (MM)	NO OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER (MM)	GLAND SIZE (MM)	NYLON CLEAT SIZE
6942X25	25	7/2.14	2	1050	20	25	0.8
6943X25	25	7/2.14	3	1500	23	25	1.0
6944X25	25	7/2.14	4	1800	25	32	1.0
6945X25	25	7/2.14	5	2200	29	32	1.2
6942X35	35	7/2.52	2	1400	22	25	0.9
6943X35	35	7/2.52	3	1800	26	32	1.1
6944X35	35	7/2.52	4	2200	28	32	1.2
6945X35	35	7/2.52	5	2800	33	40	1.4
6942X50	50	19/1.78	2	1750	25	32	1.0
6943X50	50	19/1.78	3	2250	28	32	1.2
6944X50	50	19/1.78	4	2850	31	32	1.4
6945X50	50	19/1.78	5	3850	38	40	1.6
6942X70	70	19/2.14	2	2200	28	32	1.2
6943X70	70	19/2.14	3	3000	32	32	1.4
6944X70	70	19/2.14	4	4100	37	40	1.6
6945X70	70	19/2.14	5	5100	43	50s	1.8
6942X95	95	19/2.52	2	3000	32	40	1.4
6943X95	95	19/2.52	3	4150	37	40	1.6
6944X95	95	19/2.52	4	5200	40	50s	1.8
6945X95	95	19/2.52	5	7700	52	50	TC9
6942X120	120	37/2.03	2	3600	35	40	1.4
6943X120	120	37/2.03	3	4950	40	50s	1.8
6944X120	120	37/2.03	4	6700	46	50	2.0
6945X120	120	37/2.03	5	9030	57	63S	TC9
6942X150	150	37/2.25	2	4250	37	40	1.6
6943X150	150	37/2.25	3	6300	45	50	1.8
6944X150	150	37/2.25	4	7900	49	50	2.0
6945X150	150	37/2.25	5	10430	61	63	TC11
6942X185	185	37/2.52	2	5500	43	50	1.8
6943X185	185	37/2.52	3	7650	49	50	2.0
6944X185	185	37/2.52	4	9650	55	63S	TC9
6942X240	240	61/2.25	2	6900	48	50	2.0
6943X240	240	61/2.25	3	9650	56	63S	TC9
6944X240	240	61/2.25	4	12400	62	63	TC10
6942X300	300	61/2.52	2	8200	50	50	2.0
6943X300	300	61/2.52	3	11550	59	63	TC10
6944X300	300	61/2.52	4	14800	66	75S	TC11
6942X400	400	61/2.85	2	10100	56	63S	TC9
6943X400	400	61/2.85	3	14350	65	75S	TC11
6944X400	400	61/2.85	4	19300	76.6	75	TC14

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BS 5467 PVC MULTICORE POWER - CURRENT CARRYING CAPACITY (AMPS)

CONDUCTOR CROSS – SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, 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
(MM^2)	(A)	(A)	(A)	(A)	(A)	(A)
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	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-

BS 5467 CABLE - 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		
(MM^2)	(MV/A/M)	(MV/A/M)			(MV/A/M)		
		R	X	Z	R	X	Z
25	1.85	1.85	0.160	1.90	1.60	0.14	1.65
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50	0.98	0.99	0.155	1.0	0.866	0.135	0.870
70	0.67	0.67	0.150	0.69	0.59	0.13	0.60
95	0.49	0.50	0.150	0.52	0.43	0.13	0.45
120	0.39	0.40	0.415	0.42	0.34	0.13	0.37
150	0.31	0.32	0.145	0.350	0.28	0.125	0.30
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26
240	0.195	0.20	0.14	0.24	0.175	0.125	0.21
300	0.155	0.15	0.14	0.21	0.14	0.12	0.185
400	0.12	0.13	0.14	0.19	0.115	0.120	0.165

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR OPERATING TEMPERATURE: 90°C
R = RESISTIVE COMPONENT
X = REACTIVE COMPONENT
Z = IMPEDANCE VALUE