

Power and Auxiliary Control Cables

BS5467 0.6/1.0KV

XLPE Insulation SWA PVC Sheath



C3200 TO C3266, C3713 TO C3719

Applications

Power and auxiliary control cables for use in power networks, underground, outdoor applications and for use in cable ducting.

Design

Unit	Properties
Conductor	Class2 stranded Copper Wire
Insulation	Cross-Linked Polyethylene (XLPE) 2 Core: Brown and Blue 3 Core: Brown, Black and Grey 4 Core: Brown, Blue, Black and Grey 5 Core: Green/Yellow, Brown, Blue, Black and Grey Cores more than 5: White cores with Black numbers
Bedding	Flame Retardant PVC
Armour	Galvanized Steel Wire Armour
Outer Sheath Material	Flame Retardant PVC Standard Colour: Black
Standard Put Up Length	305M or 500m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Electrical Characteristics at 20°C

Conductor Size (sqmm)	Min. No. of wires in conductor	Max. DCR (Ohm/km)	Voltage Rating (U ₀ /U)	Temperature Rating (°C) Fixed
1.0	7	18.1	600/1000	-25 to +90
1.5	7	12.1	600/1000	-25 to +90
2.5	7	7.41	600/1000	-25 to +90
4.0	7	4.61	600/1000	-25 to +90
6.0	7	3.08	600/1000	-25 to +90
10.0	7	1.83	600/1000	-25 to +90
16.0	7	1.15	600/1000	-25 to +90
25.0	7	0.727	600/1000	-25 to +90
35.0	7	0.524	600/1000	-25 to +90
50.0	19	0.387	600/1000	-25 to +90
70.0	19	0.268	600/1000	-25 to +90
95.0	19	0.193	600/1000	-25 to +90
120.0	37	0.153	600/1000	-25 to +90
150.0	37	0.124	600/1000	-25 to +90
185.0	37	0.0991	600/1000	-25 to +90
240.0	37	0.0754	600/1000	-25 to +90
300.0	61	0.0601	600/1000	-25 to +90
400.0	61	0.047	600/1000	-25 to +90

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Current Carrying Capacity

Conductor Size(sqmm)	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 Signal-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Signal-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Signal-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC
1.0	18	15	20	17	17	13
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4.0	49	42	52	44	43	36
6.0	62	53	66	56	53	44
10.0	85	73	90	78	71	58
16.0	110	94	115	99	91	75
25.0	146	124	152	131	116	96
35.0	180	154	188	162	139	115
50.0	219	187	228	197	164	135
70.0	279	238	291	251	203	167
95.0	338	289	354	304	239	197
120.0	392	335	410	353	271	223
150.0	451	386	472	406	306	251
185.0	515	441	539	463	343	281
240.0	607	520	636	546	395	324
300.0	698	599	732	628	446	365
400.0	787	673	847	728	-	-

Air ambient temperature: 30°C
 Ground ambient temperature: 20°C
 Conductor operating temperature: 90°C

Note:

- 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.

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Constructional Information

P/N	Number of Cores	Conductor Construction (sq mm)	Nom. Radial Thickness of Insulation (mm)	Nom. Diameter of Bedding (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C3200	2	1.5	0.6	7.3	12.1	302
C3201	2	2.5	0.7	8.5	13.6	346
C3202	2	4.0	0.7	9.4	14.7	410
C3203	2	6.0	0.7	10.5	15.9	499
C3204	2	10.0	0.7	12.3	18.0	648
C3205	2	16.0	0.7	14.3	20.4	978
C3206	2	25.0	0.9	15.5	21.6	1290
C3207	2	35.0	0.9	16.8	23.3	1500
C3208	2	50.0	1.0	19.0	25.8	1890
C3209	2	70.0	1.1	22.0	29.0	2450
C3210	2	95.0	1.1	25.1	33.1	3300
C3211	2	120.0	1.2	27.9	36.1	4020
C3212	2	150.0	1.4	30.9	39.3	4750
C3713	3	1.0	0.6	7.0	10.8	279
C3213	3	1.5	0.6	7.8	12.6	330
C3214	3	2.5	0.7	9.2	14.1	390
C3215	3	4.0	0.7	10.0	15.3	464
C3216	3	6.0	0.7	11.2	16.6	568
C3217	3	10.0	0.7	13.1	19.5	866
C3218	3	16.0	0.7	15.3	21.6	1152
C3219	3	25.0	0.9	18.9	23.6	1800
C3220	3	35.0	0.9	21.3	25.7	2230
C3221	3	50.0	1.0	21.7	28.5	2490
C3222	3	70.0	1.1	25.2	32.2	3290
C3223	3	95.0	1.1	28.8	37.0	4440
C3224	3	120.0	1.2	32.0	40.4	5470
C3225	3	150.0	1.4	35.9	45.5	6930
C3226	3	185.0	1.6	40.0	49.8	8350
C3227	3	240.0	1.7	44.9	55.1	10400
C3228	3	300.0	1.8	49.8	60.2	12600
C3229	3	400.0	2.0	55.8	66.6	14600
C3230	4	1.5	0.6	8.5	13.3	365
C3231	4	2.5	0.7	9.9	15.0	438
C3232	4	4.0	0.7	11.0	16.4	532
C3233	4	6.0	0.7	12.3	18.7	764
C3234	4	10.0	0.7	14.5	21.1	1013
C3235	4	16.0	0.7	17.0	23.4	1360
C3236	4	25.0	0.9	21.0	26.1	2160
C3237	4	35.0	0.9	23.6	28.6	2690
C3238	4	50.0	1.0	25.0	32.0	3130
C3239	4	70.0	1.1	29.5	37.7	4500
C3240	4	95.0	1.1	33.3	41.7	5600
C3241	4	120.0	1.2	37.5	47.1	7400
C3242	4	150.0	1.4	41.6	51.4	8780
C3243	4	185.0	1.6	46.4	56.6	10630

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P/N	Number of Cores	Conductor Construction (sq mm)	Nom. Radial Thickness of Insulation (mm)	Nom. Diameter of Bedding (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C3244	4	240.0	1.7	52.6	63.0	13390
C3245	4	300.0	1.8	58.0	68.8	16290
C3246	4	400.0	2.0	65.4	78.1	19800
C3714	5	1.0	0.6	8.3	12.5	356
C3247	5	1.5	0.6	9.7	14.3	410
C3248	5	2.5	0.7	11.7	16.1	470
C3249	5	4.0	0.7	13.0	17.8	710
C3250	5	6.0	0.7	14.5	20.0	876
C3251	5	10.0	0.7	17.2	22.9	1165
C3252	5	16.0	0.7	20.0	26.6	1742
C3253	5	25.0	0.9	24.7	31.5	2323
C3254	5	35.0	0.9	27.8	34.8	2932
C3255	5	50.0	1.0	32.4	40.4	4192
C3715	7	1.0	0.6	9.1	13.3	406
C3256	7	1.5	0.6	10.2	15.2	470
C3257	7	2.5	0.7	12.3	17.1	600
C3258	7	4.0	0.7	13.6	19.1	881
C3428	8	2.5	0.7	14.5	20.2	935
C3716	12	1.0	0.6	12.4	17.4	610
C3259	12	1.5	0.6	13.7	19.4	780
C3260	12	2.5	0.7	16.3	22.4	1000
C3717	19	1.0	0.6	14.9	20.3	812
C3261	19	1.5	0.6	16.2	22.2	1000
C3262	19	2.5	0.7	19.9	26.6	1540
C3718	27	1.0	0.6	17.7	23.8	1197
C3263	27	1.5	0.6	20.0	26.7	1500
C3264	27	2.5	0.7	24.0	30.7	1950
C3719	37	1.0	0.6	19.9	26.3	1443
C3265	37	1.5	0.6	22.3	29.0	1800
C3266	37	2.5	0.7	26.9	33.8	2350

Reference Standards

BS5467	BS EN/IEC 60502-1
BS EN 60228	RoHS directives
IEC 60332-3-24	