



BS5308 Cable Part 1 Type 2 CAM SWA

Applications:	Indoor and outdoor installations generally used within industrial process plants and for data & voice transmission services. Also used for the interconnection of electrical equipment and instruments, particularly in and around process plants, where transducer generated signals are transmitted through marshalled circuits to panels, controllers and associated devices Part 1 cables are widely used throughout the petroleum industry.
Conductors:	Type 2 armoured cables are suitable for direct burial. 0.5sqmm & 0.75sqmm class 5 Flexible copper, 1.0sqmm class 1 solid copper, 1.5sqmm & 2.5sqmm class 2 stranded copper
Insulation:	PE (Polyethylene)
Core identification:	See link in technical information
Screen:	CAM (Collective aluminium mylar)
Sheath/Jacket:	PVC (Polyvinyl-Chloride)
Colour:	Black or Blue
Voltage:	300/500v
Bedding:	PE (Polyethylene)
Armour / Protection:	SWA (Steel wire armour)
Bending Radius:	6 x overall diameter
Binder tape:	
Standards:	BS5308 Part 1 ,Insulated cables, instrumentation, PE BS6234: Specification for polyethylene insulation and sheath of electric cables BS EN 60332-3-Cat C
Note:	If you are considering installing in high UV exposure and/or high/low ambient temperatures i.e. desert/arctic conditions then special sheathing may be required

Electrical Characteristics

Conductor size	0.5mm ² (16/.2)	0.75mm ² (24/.2)	1.00mm ² (1/1.13)	1.5mm ² (7/0.53)	2.5mm ² (7/0.67)
Mutual Capacitance at 1kHz:					
a. Cables with only collective screens (except one pair and two pair)- nF/km	75	75	75	85	105
b. One pair and two pair cables collectively screened- nF/km	115	115	115	120	140
Conductor resistance: Max resistance: Max dc resistance at 20°C – ohms/Km	39.0	26.0	18.1	12.1	7.41
L/R ratio (maximum value) – microH/ohm	25	25	25	40	60

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BS5308 Part 1 Type 2 Collectively screened and armoured - pairs

Conductor size (mm)	Nominal dimensions (mm), Weights and Gland sizes							
	No of Pairs	1	5	10	15	20	30	50
16/0.20 (0.5mm ²)	BATT part no Black	85123	85120	85030	-	85307	-	-
	BATT part no Blue	85001	85018	85029	-	85711	-	-
	Under Armour	6.1	12.3	16.2	18.9	21.3	26.0	33.0
	Over Armour	7.9	14.1	18.7	22.1	24.5	29.2	37.0
	Overall Diameter	10.5	17.1	21.9	25.5	28.1	33.0	41.2
	Weight Kg/KM	218	465	786	1115	1307	1696	2644
	Gland CW/Size	20s	20	25	32	32	40	50s
	Gland part no	88591	88592	88593	88594	88893	88919	88919
	24/0.20 (0.75mm ²) Generally to BS5308	BATT part no Black	85251	85418	85419	-	85501	-
BATT part no Blue		85250	85583	85620	-	85621	85605	-
Under Armour		6.5	13.2	17.5	20.4	23.5	28.2	36.3
Over Armour		8.3	14.6	20.7	23.6	26.7	32.3	40.3
Overall Diameter		10.9	18.7	24.1	27.2	30.3	35.4	44.7
Weight Kg/KM		234	609	1016	1262	1524	1972	3152
Gland CW/Size		20s	25	25	32	32	40	50
Gland part no		88591	88593	88593	88594	88594	88893	88439
1/1.13 (1.00mm ²)		BATT part no Black	85181	85031	85454	-	-	-
	BATT part no Blue	85226	-	-	-	-	-	-
	Under Armour	6.5	13.2	17.5	20.4	23.5	28.2	36.3
	Over Armour	8.3	14.6	20.0	23.6	26.7	31.4	40.3
	Overall Diameter	10.9	18.7	23.4	27.2	30.3	35.4	44.7
	Weight Kg/KM	239	633	946	1333	1619	2115	3390
	Gland CW/Size	20s	25	25	32	32	40	50
	Gland part no	88591	88593	88593	88594	88594	88893	88439
	7/0.53 (1.5mm ²)	BATT part no Black	85012	85118	85494	-	85689	86837
BATT part no Blue		85011	85688	85311	-	85690	85769	-
Under Armour		7.4	15.5	20.6	24.2	27.4	33.4	42.5
Over Armour		9.2	19.9	23.8	27.4	30.6	37.4	47.5
Overall Diameter		12.0	21.2	27.4	31.2	34.6	41.6	52.3
Weight Kg/KM		287	786	1343	1710	2064	3017	4795
Gland CW/Size		20s	25	32	32	40	50s	63s
Gland part no		88591	88593	88594	88594	88593	88919	88918
7/0.67 (2.5mm ²)		BATT part no Black	85691	85175	85692	-	86551	-
	BATT part no Blue	-	-	-	-	-	-	-
	Under Armour	8.3	17.5	23.7	27.8	31.7	38.6	49.3
	Over Armour	10.1	20.1	27.4	30.7	34.9	42.8	52.1
	Overall Diameter	12.9	23.4	30.7	35.0	39.9	47.2	59.5
	Weight Kg/KM	337	978	1696	2212	2943	3966	6329
	Gland CW/Size	-	-	-	-	-	-	-
	Gland part no	-	-	-	-	-	-	-

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BS5308 Part 1 Type 2 Collectively screed and armoured – triples

Conductor size (mm)	Nominal dimensions (mm), Weights and Gland sizes								
	No of Pairs	1T	3T	4T	5T	8T	12T	15T	20T
16/0.20 (0.5mm ²)	BATT part no Black	85163	-	-	-	-	-	-	-
	BATT part no Blue	85116	-	-	-	-	-	-	-
	Under Armour	6.4	11.5	12.4	13.5	17	20	22.4	25.4
	Over Armour	8.3	14	15	16	20.2	23.2	25.6	29.4
	Overall Diameter	10.8	17.1	18.1	19.5	23.7	26.9	29.3	33.3
	Weight Kg/KM	233	530	590	650	1020	1260	1450	1950
	24/0.20 (0.75mm ²) Generally to BS5308	BATT part no Black	85252	-	-	-	-	-	-
BATT part no Blue		-	-	-	-	-	-	-	-
Under Armour		6.9	11.9	13.0	14.5	18	21	23.8	25.2
Over Armour		8.5	14.5	15.6	17.7	21.3	23.3	27.1	28.5
Overall Diameter		11.3	17.6	18.7	21.5	24.8	27.0	31	32.5
Weight Kg/KM		252	560	640	930	1150	1220	1650	2000
1/1.13 (1.00mm ²)		BATT part no Black	-	-	-	-	-	-	-
	BATT part no Blue	-	-	-	-	-	-	-	-
	Under Armour	6.9	12.1	13.3	14.7	17.9	21.1	23.5	26.9
	Over Armour	8.7	14.6	15.9	17.8	21.2	24.4	26.8	31
	Overall Diameter	11.3	17.7	19	21.1	24.7	28.1	30.7	35.1
	Weight Kg/KM	259	600	680	780	1200	1500	1800	2400
	7/0.53 (1.5mm ²)	BATT part no Black	85114	-	-	-	-	-	-
BATT part no Blue		85139	-	-	-	-	-	-	-
Under Armour		8.0	14.1	15.5	17.5	21.2	25.3	28.0	32.1
Over Armour		10	16.7	18.8	20.8	24.5	29.4	32.1	36.2
Overall Diameter		12.6	20.0	22.1	24.3	28.2	33.3	36.2	40.5
Weight Kg/KM		322	740	970	1150	1500	2150	2500	3050

BS5308 Part 1 Type 2 Collectively screened and armoured - quads

Conductor size (mm)	Nominal dimensions (mm), Weights and Gland sizes								
	No of Pairs	1Q	3Q	4Q	5Q	8Q	12Q	15Q	20Q
16/0.20 (0.5mm ²)	BATT part no Black	85113	-	-	-	-	-	-	-
	BATT part no Blue	85227	-	-	-	-	-	-	-
	Under Armour	7.0	12.9	14.4	15.9	19.0	23.2	25.8	29.5
	Over Armour	8.9	15.5	17.0	19.2	22.3	26.5	29.9	33.6
	Overall Diameter	11.4	18.6	20.3	22.5	25.8	30.2	33.8	37.7
	Weight Kg/KM	252	600	800	920	1150	1500	2000	2350
	24/0.20 (0.75mm ²) Generally to BS5308	BATT part no Black	85416	-	-	-	-	-	-
BATT part no Blue		85619	-	-	-	-	-	-	-
Under Armour		7.4	14.1	15.5	17.4	20.9	25.4	28.2	32.4
Over Armour		9.4	16.7	18.8	20.7	24.2	29.5	32.4	36.5
Overall Diameter		12.0	20	22.1	24.2	27.9	33.4	36.6	41
Weight Kg/KM		286	690	920	1050	1350	2000	2250	2850
1/1.13 (1.00mm ²)		BATT part no Black	85187	-	-	-	-	-	-
	BATT part no Blue	85267	-	-	-	-	-	-	-
	Under Armour	7.4	14.1	15.5	17.4	20.9	25.4	28.2	32.4
	Over Armour	9.4	16.7	18.8	20.7	24.2	29.5	32.4	36.5
	Overall Diameter	12.0	20	22.1	24.2	27.9	33.4	36.6	41
	Weight Kg/KM	296	715	960	1100	1450	2100	2400	3000
	7/0.53 (1.5mm ²)	BATT part no Black	85243	-	-	-	-	-	-
BATT part no Blue		85478	-	-	-	-	-	-	-
Under Armour		8.7	16.6	18.2	230.5	24.8	30.1	33.4	38.3
Over Armour		10.7	19.9	21.5	23.8	28.1	34.2	37.5	43.4
Overall Diameter		13.3	23.4	25	27.5	32	38.5	42	48.1
Weight Kg/KM		360	1020	1170	1360	1800	2650	3050	4200

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