



## BS5308 Cable Part 1 Type 1 XLPE CAM LSZH

<b>Applications:</b>	BS5308 LSZH instrumentation cable. Indoor 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
<b>Conductors:</b>	0.5sqmm & 0.75sqmm class 5 Flexible copper 1.5sqmm class 2 stranded copper
<b>Insulation:</b>	XLPE (Cross linked polyethylene)
<b>Core identification:</b>	See colour code link in technical section
<b>Screen:</b>	CAM (Collective aluminium mylar)
<b>Sheath/Jacket:</b>	LSZH (Low smoke zero halogen)
<b>Colour:</b>	Black or Blue
<b>Voltage:</b>	300/500v
<b>Temperature range:</b>	Operating -20 to +90°C
<b>Bending Radius:</b>	5 x overall diameter
<b>Binder tape:</b>	A non-hydroscopic binder tape is applied over the cable assembly
<b>Standards:</b>	BS5308 Part 1 ,Insulated cables, instrumentation, PE : <b>Part 1</b> cables are widely used throughout the petroleum industry. <b>Type 1</b> unarmoured cables are generally for indoor applications <b>LSZH</b> sheath used in areas where exposure to toxic fumes would cause a threat



### Electrical Characteristics

Conductor size	0.5mm <sup>2</sup> (16/.2)	0.75mm <sup>2</sup> (24/.2)	1.00mm <sup>2</sup> (1/1.13)	1.5mm <sup>2</sup> (7/0.53)
Mutual Capacitance:				
a. Cables with only collective screens (except one pair and two pair)- pf/fm	75	75	75	85
b. One pair and two pair cables collectively screened and all cables with individually screened pairs. - pf/fm	115	115	115	120
Conductor resistance: Max resistance: Max dc resistance at 20°C – ohms/Km	39.7	26.5	18.5	12.3
L/R ratio (maximum value) – microH/ohm	25	25	25	40



**BS5308 Part 1 Type 1 Collectively screened unarmoured**

Conductor size (mm)	Nominal dimensions (mm), Weights and Gland sizes								
	No of Pairs	1	2	5	10	15	20	30	50
<b>16/0.20</b> <b>(0.5mm<sup>2</sup>)</b>	BATT part no Black	85280	85420	85177	85330	-	85421	86196	-
	BATT part no Blue	86187	86189	86191	86199	-	86194	-	-
	Overall Diameter	7	7.9	13.1	17.2	19.8	22.3	26.9	33.9
	Weight Kg/KM	42	64	150	250	340	440	640	1020
	Gland A2/Size	20ss	20ss	20	25	25	32	40	50s
	Gland part no	88347	88347	88360	88362	88362	88363	88364	88365
<b>24/0.20</b> <b>(0.75mm<sup>2</sup>)</b> Generally to BS5308	BATT part no Black	85176	85121	85122	85146	-	85147	85153	-
	BATT part no Blue	85277	85455	86192	86493	-	86195	-	-
	Overall Diameter	7.3	8.3	14.3	18.7	21.4	24.5	29.5	37.4
	Weight Kg/KM	70	110	260	410	540	680	1020	1650
	Gland A2/Size	20ss	20s	25	25	32	32	40	50s
	Gland part no	88347	88348	88362	88362	88363	88363	88364	85365
<b>1/1.13</b> <b>(1.00mm<sup>2</sup>)</b>	BATT part no Black	-	-	-	-	-	-	-	-
	BATT part no Blue	-	-	-	-	-	-	-	-
	Overall Diameter	7.4	8.4	14.2	18.4	21.3	24.4	29	37.3
	Weight Kg/KM	53	86	210	350	490	670	950	1580
	Gland A2/Size	20ss	20s	25	25	32	32	40	50s
	Gland part no	88347	88348	88362	88362	88363	88363	88364	88365
<b>7/0.53</b> <b>(1.5m<sup>2</sup>)</b>	BATT part no Black	85695	85699	85693	85694	-	85847	85848	-
	BATT part no Blue	85773	86190	-	85949	-	-	-	-
	Overall Diameter	8.3	9.7	16.4	21.6	25.2	28.5	34.3	43.6
	Weight Kg/KM	83	130	300	540	750	960	1400	2400
	Gland A2/Size	20s	20s	25	32	32	40	50s	50
	Gland part no	88348	88348	88362	88363	88363	88364	88365	88285

**BS5308 Part 1 Type 1 Individual and collective screen unarmoured**

Conductor size (mm)	Nominal dimensions (mm), Weights and Gland sizes								
	No of Pairs	1	2	5	10	15	20	30	50
<b>16/0.20</b> <b>(0.5mm<sup>2</sup>)</b>	BATT part no Black	-	-	-	-	-	-	-	-
	BATT part no Blue	-	85428	85775	85776	-	-	-	-
	Overall Diameter	-	11.8	13.1	17.2	19.8	22.3	26.9	33.9
	Weight Kg/KM	-	130	150	250	340	440	640	1020
	Gland A2/Size	-	20	20	25	32	32	40	50s
	Gland part no	-	88360	88360	88362	88363	88363	88364	88365
<b>24/0.20</b> <b>(0.75mm<sup>2</sup>)</b> Generally to BS5308	BATT part no Black	-	-	85331	-	-	-	-	-
	BATT part no Blue	-	85352	85053	85038	-	-	-	-
	Overall Diameter	-	12.8	16.3	22.7	26.4	29.8	35.5	45
	Weight Kg/KM	-	190	330	510	700	900	1240	2000
	Gland A2/Size	-	20	25	32	40	40	50s	63s
	Gland part no	-	88360	88362	88363	88364	88364	88365	88366
<b>1/1.13</b> <b>(1.00mm<sup>2</sup>)</b>	BATT part no Black	-	-	-	-	-	-	-	-
	BATT part no Blue	-	-	-	-	-	-	-	-
	Overall Diameter	-	12.8	16.2	22.6	26.2	29.8	35.4	44.9
	Weight Kg/KM	-	86	210	350	490	670	950	1580
	Gland A2/Size	-	20	25	32	40	40	50s	63s
	Gland part no	-	88360	88362	88363	88364	88364	88365	88366
<b>7/0.53</b> <b>(1.5mm<sup>2</sup>)</b>	BATT part no Black	-	-	-	-	-	-	-	-
	BATT part no Blue	-	85074	85255	-	-	-	-	-
	Overall Diameter	-	14.7	18.8	26.5	30.8	34.4	41	52.2
	Weight Kg/KM	-	190	370	630	920	1100	1700	2900
	Gland A2/Size	-	25	25	40	40	50s	50	63
	Gland part no	-	88362	88362	88364	88364	88365	88285	88367