

## BS EN 50288-7 COMMUNICATION & CONTROL CABLE LSZH CAT



### APPLICATION

BS EN 50288-7:2005 Multi-element metallic cables which are used in analogue and digital communication and control systems. The cables have a mechanically robust construction and electrical transmission handling properties. These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants and are not to be used for power supply. BS EN 50288-7 replaces the BS5308 Standard. BS 5308 has been subsequently changed to PAS5308. Cleveland Cable still support the older standards.

### CONSTRUCTION

**Conductor:**

**0.5 - 0.75:** Class 5 flexible copper conductor

**1mm & above:** Class 2 stranded copper conductor

**Insulation:** Cross-Linked Polyethylene (XLPE)  
Laid up to form pairs

**Screen:** Collective aluminium / mylar tape screen with tinned copper drain wire

**Sheath:** Low Smoke Zero Halogen (LSZH)

### CABLE STANDARDS

BS EN 50288-7

BS EN 50288-1

60332-1-2

BS EN/IEC 60332-3-24

HD383

Flame Retardant according to BS EN/IEC

### CHARACTERISTICS

**Voltage Rating:** 300V: Communication & control cable – not for power applications  
500V cables available on request

**Temperature Limits:** Fixed: -40°C to +80°C

**Minimum Bending Radius:**

As per cable manufacturer datasheet

### CORE IDENTIFICATION

Pairs  White  3 Black Numbered  
Triple  White  Black  Red  
Sheath  Blue  Black

Should not be installed at temperatures below 0°C

## BS EN 50288-7 COMMS & CONTROL CABLE LSZH CAT - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM)	NUMBER OF CONDUCTORS	NUMBER OF PAIRS/ TRIPLES	WEIGHT (KG/KM)	OVERALL DIAMETER
RE2X9200	0.5	2	1P	60	4.6
RE2X9224	0.5	3	1T	69	4.8
RE2X9201	0.5	4	2P(Q)	75	6.7
RE2X9202	0.5	10	5P	190	8.6
RE2X9203	0.5	20	10P	305	11.9
RE2X9204	0.5	30	15P	410	13.8
RE2X9205	0.5	40	20P	518	15.5
RE2X9206	0.75	2	1P	69	4.6
RE2X9225	0.75	3	1T	83	5.4
RE2X9207	0.75	4	2P(Q)	99	7.6
RE2X9208	0.75	10	5P	242	9.8
RE2X9209	0.75	20	10P	380	13.7
RE2X9210	0.75	30	15P	445	15.9
RE2X9211	0.75	40	20P	684	17.9
RE2X9212	1	2	1P	130	5
RE2X9226	1	3	1T	142	5.3
RE2X9213	1	4	2P(Q)	155	7.5
RE2X9214	1	10	5P	292	9.5
RE2X9215	1	20	10P	405	13.4
RE2X9216	1	30	15P	790	15.5
RE2X9217	1	40	20P	865	17.4
RE2X9218	1.5	2	1P	90	6.4
RE2X9227	1.5	3	1T	115	6.7
RE2X9219	1.5	4	2P(Q)	150	9.7
RE2X9220	1.5	10	5P	350	12.6
RE2X9221	1.5	20	10P	575	17.9
RE2X9222	1.5	30	15P	820	20.8
RE2X9223	1.5	40	20P	1080	23.5

## BS EN 50288-7 COMMS & CONTROL CABLE- ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	CONDUCTOR CLASS	MUTUAL CAPACITANCE pF/m			MAXIMUM RESISTANCE CONDUCTOR AT 20°C Ω/Km	MAXIMUM L/R RATIO μH/ohms
		CABLES WITH COLLECTIVE SCREEN ONLY	1 PAIR, 2 PAIRS, 1 TRIPLE COLLECTIVELY SCREENED	CABLES WITH INDIVIDUALLY SCREENED PAIRS		
0.5	5	75	115	115	39	25
0.75	5	75	115	115	26	25
1	2	75	115	115	18.1	25
1.5	2	85	120	120	12.1	40
2.5	2	85	120	120	7.41	65

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

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