



Application

BS 5308 PT1 TY1 LSZH individually and collectively screened instrumentation cables are designed for use in process control and instrumentation systems, carrying low-level analogue or digital signals between field devices and control equipment. The LSZH sheath makes them suitable for indoor or public-area installations where low smoke and toxicity are required. These cables are typically used where mechanical protection is not required.

Characteristics

Voltage Rating 300/500v

Temperature in operation -30°C to +70°C (Fixed)

Min. bending radius 7.5 x OD

Construction

Conductor

Stranded electrolytic copper wire Class 2 & 5 (BS EN 60228:2005)

Insulation

XLPE (Cross-Linked Polyethylene) Compound

Individual screen

PES Tape + Tinned Copper Drain Wire (0,5 mm²) + AL-PES Tape

Wrapping

PES Tape

Overall Screen

AL-PES Tape + Tinned Copper Drain Wire (0,5 mm²)

Sheath

HFFR (Halogen Free) Compound

Core Identification

BS 5308-1

Sheath Colour

Black, Blue

Standards

BS 5308, BS EN 60228

Flame Retardant IEC 60332-1-2, IEC 60332-3-24 (Cat. C)

Smoke Density IEC 61034-2

Test on Corrosiveness of Combustion Gases IEC 60754-2

Halogen Free Test IEC 60754-1

Regulatory Compliance



RESPONSIBLY
PRODUCED
COPPER

The Copper Mark Partnership

- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

Cross Section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
2x2x0.5	10.10	90.90
3x2x0.5	10.90	119.6
5x2x0.5	13.20	172.7
10x2x0.5	18.80	323.1
15x2x0.5	21.80	455.1
20x2x0.5	24.60	589.4
2x2x0.75	10.80	104.7
3x2x0.75	11.70	139.5
5x2x0.75	14.20	204.1
10x2x0.75	20.30	385
15x2x0.75	23.80	558.7
20x2x0.75	26.70	722.70
2x2x1	11.00	118.10
3x2x1	12.10	166.10
5x2x1	14.50	236.7
10x2x1	20.60	448.80
15x2x1	24.20	654.4
20x2x1	27.20	850.4
2x2x1.5	12.70	155.20
3x2x1.5	13.70	209.7
5x2x1.5	16.70	313.9
10x2x1.5	24.00	610
15x2x1.5	27.80	871
20x2x1.5	31.40	1135.90
2x2x2.5	14.30	203.2
3x2x2.5	15.70	287.3
5x2x2.5	19.10	434.7
10x2x2.5	27.50	846.3
15x2x2.5	31.90	1216.1
20x2x2.5	36.20	1609

This datasheet is for guidance only. While we believe the information is accurate at the time of publication, it is subject to manufacturing tolerances.

Electrical Specification							
Conductor cross-section	Non.	mm ²	0.5	0.75	1	1.5	2.5
Insulation resistance	Min	MΩxkm	5000				
Mutual capacitance	Max.	nF/km	100	100	100	100	100
Inductance	Max.	mH/km	1				
Capacitance unbalance	Max.	pf/500 m	500				
L/R ratio	Max.	μH/Ω	25			40	
Test voltage Urms (core:core)		V	2000				
Test voltage Urms (core:screen)		V	2000				
Operating Voltage		V	300/500				

This datasheet is for guidance only. While we believe the information is accurate at the time of publication, it is subject to manufacturing tolerances.