BS 5308 Instrumentation Cable

PT1 TY2 LSZH OSCR

Application

BS 5308 Pt1 Type 2 screened instrumentation cables transmit low-level analogue and digital signals reliably in industrial control and monitoring systems. Their steel wire armour provides mechanical protection for indoor and outdoor use in dry, damp, or wet environments. The LSZH sheath ensures safe installation in public or indoor spaces by minimizing smoke and toxic emissions.

Characteristics

Voltage Rating 300/500v
Temperature in operation -30°C to +90°C (Fixed Installation)
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
Wrapping
PES Tape
Overall Screen
Tinned Copper Drain Wire (0,5 mm2) + AL-PES Tape
Inner Sheath
HFFR (Halogen Free) Compound
Armour
Galvanised Steel Wire Armoured
Outer Sheath
HFFR (Halogen Free) Compound

Core Identification

BS 5308-1

Core Identification

Black or Blue

Standards

BS 5308, BS EN 60228,
Flame Propagation 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

THE COPPER MARK 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

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Cross Section (mm2)	Overall Diameter (mm)	Weight (kg/km)
1x2x0.5	10.40	210.9
1x3x0.5	10.80	228.7
2x2x0.5 (QUAD)	11.30	249.2
5x2x0.5	16.60	455.3
10x2x0.5	22.10	800.1
1x2x0.75	10.80	226.7
1x3x0.75	11.20	247.0
2x2x0.75 (QUAD)	12.00	278.7
5x2x0.75	18.20	603.6
10x2x0.75	23.60	909.9
1x2x1	10.90	235.5
1x3x1	11.30	258.9
2x2x1 (QUAD)	12.10	293.7
5x2x1	18.40	641.5
10x2x1	23.30	942.1
1x2x1.5	11.90	274.2
1x3x1.5	12.60	314.8
2x2x1.5 (QUAD)	13.30	352.5
5x2x1.5	20.60	785.4
1x2x2.5	12.80	318.1
1x3x2.5	13.50	368.6
2x2x2.5 (QUAD)	14.40	421.5
5x2x2.5	22.80	965.9

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Electrical Specification							
Conductor cross-section	Non.	mm2	0.5	0.75	1	1.5	2.5
Insulation resistance	Min	MΩxkm	5000				
Mutual capacitance	Max.	nF/km	65	65	65	75	75
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)			2000				
Test voltage Urms (core:screen)			2000				
Operating Voltage			300/500				