BS 5308 Instrumentation Cable

PT1 TY2 PVC OSCR

Application

BS 5308 PT1 TY2 collectively screened instrumentation cables are designed for the reliable transmission of low-level analogue and digital signals in industrial control and monitoring systems. Their steel wire armour provides enhanced mechanical protection, making them suitable for installation both indoors and outdoors, including dry, damp, and wet environments, and in areas where moderate mechanical stress may occur.

Characteristics

Voltage Rating 300/500v
Temperature in operation -30°C to +70°C (Fixed)
Min. bending radius 7.5 x OD

Standards

BS 5308, BS EN 60228
Flame Retardant: IEC 60332-1-2, IEC 60332-3-24 (Cat. C)

Construction

Conductor
Stranded electrolytic copper wire Class 2 & 5 (BS EN 60228:2005)
Insulation
PE (Polyethylene)
Screen
AL-PES Tape
Drain Wire
Tinned Copper Drain Wire (0,5 mm2)
Bedding
PE (Polyethylene)
Armour
Galvanised Steel Wire Armoured
Sheath
PVC (Polyvinyl Chloride)

Regulatory Compliance

Core Identification

BS 5308-1

Sheath Colour

RAL 9005 Black, RAL 5015 Blue

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

BS 5308

PT1 TY2 PVC OSC

Cross Section (mm2)	Overall Diameter (mm)	Weight (kg/km)
1x2x0.5	10.40	202.5
1x3x0.5	10.80	219.6
2x2x0.5 (QUAD)	11.30	239.2
5x2x0.5	16.60	431.0
10x2x0.5	22.10	761.6
1x2x0.75	10.80	217.6
1x3x0.75	11.20	237.2
2x2x0.75 (QUAD)	12.00	267.9
5x2x0.75	18.20	576.7
10x2x0.75	23.60	868.0
1x2x1	10.90	226.2
1x3x1	11.30	248.8
2x2x1 (QUAD)	12.10	282.7
5x2x1	18.40	613.8
10x2x1	23.90	939.9
1x2x1.5	11.90	263.7
1x3x1.5	12.60	301.6
2x2x1.5 (QUAD)	13.30	337.9
5x2x1.5	20.60	750.2
1x2x2.5	12.80	305.9
1x3x2.5	13.50	353.5
2x2x2.5 (QUAD)	14.40	404.5
5x2x2.5	22.80	925.1

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				