



BS5308 Part1 Type 1

XLPE/OS/UV Resistant FRLSZH Jacket Cable

Application:

Instrumentation cables are multi conductor cables which convey low energy electrical signals used for monitoring or controlling electrical power systems and their associated processes. Instrumentation cables convey signals from process monitors to process analyzers (usually electronics equipment) and from the analyzers to control equipment in the electric power system..

Construction:

Conductor: Plain copper wire conductors to BS 6360, class 2 (stranded).

Insulation: Conductors are insulated with a layer of extruded normal XLPE

Collective screen: Aluminium/p.e.t.p. laminated tape applied with the metallic side down in electrical contact with a 0.5mm 2 tinned copper drain wire over the p.e.t.p. binder tape.

Outer Sheathing: An outer protection of flame retardant, UV resistant LSZH is applied over the collective screen.

Packing: The cables are delivered on non-returnable wood drums.

Standard:

BS5308, IEC 60332-1-2, IEC 60332-3-24(Cat. C), IEC 61034-2, IEC 60754



Technical Information:

		Unit	Conductor size			
			0.5mm 2	0.75mm 2	1.0mm 2	1.5mm 2
			(7/0.3mm)	(7/0.37mm)	(7/0.43 mm)	(7/0.53mm)
Conductor resistance	max.	Ω/Km	39.7	24.5	18.1	12.1
Insulation resistance	max.	GΩxKm	5	5	5	5
Mutual capacitance at 1 kHz	max.	pF/m				
-Single Element			100	100	100	100
-2 to 4 Elements			78	78	78	90
-Above 4 Elements			65	65	65	75
Inductance/resistance ratio(L/R)	max.	μH/Ω	25	25	25	40
Test voltage(Core:core)	max.	V	1000	1000	1000	1000
(Core:core)		V	1000	1000	1000	1000
Rated voltage		v	300/500	300/500	300/500	300/500

Cable Size:

Conductor	Number of Triads	Thickness of insulation nom. (mm)	Thickness of outer sheath nom. (mm)	Overall Diameter approx. (mm)
1.5mm2	6	0.6	1.5	20.0

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