



Caledonian

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Part No.: PI79949

BS5308 Part1 Type 2

Mica & XLPE Insulated Steel Wire Armored LSZH 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 Mica fire resisting tape and XLPE

Pair screens: Aluminium/p.e.t.p. Laminated tape applied with the metallic side down in electrical contact with a 0.5 mm 2 tinned copper drain wire.

A 23 micron isolation tape is applied over the screening tape with a minimum 50% overlap.

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.

Inner Sheathing: An inner layer of extruded LSZH compound is applied over the cable core.

Armor: Galvanized steel wire

Outer Sheathing: An outer protection of extruded PVC compound is applied over the armour.

Standard: BS5308, IEC60331, BS6387

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



Technical Information:

		Unit	Conductor size				
			0.5mm 2	0.5mm 2	0.75mm 2	1.0mm 2	1.5mm 2
			(1/0.8mm)	(16/0.2mm)	(24/0.2mm)	(1/1.13 mm)	(7/0.53mm)
Conductor resistance	max.	Ω/Km	36.8	39.7	26.5	18.2	12.3
Insulation resistance	max.	GΩxKm	5	5	5	5	5
Mutual capacitance at kHz	max.	pF/m	115	115	115	115	115
-One pair and two pair(Quad)cables with collective screen and all			75	75	75	75	85
cables with individually screened pairs							
-Cables with only collective screen except one pair and two pair(Quad)							
Capacitance unbalance at 1 kHz			max.	pF/250m	250	250	250
Inductance/resistance ratio(L/R)	max.	μH/Ω	25	25	25	25	25
Test voltage(Core:core)		V	1000	1000	1000	1000	1000
(Core:core)		V	1000	1000	1000	1000	1000
Rated voltage	max.	v	300/500	300/500	300/500	300/500	300/500



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Cable Size:

No. of Triads	Thickness of insulation nom. (mm)	Thickness of bedding nom. (mm)	Dia. over bedding approx. (mm)	Dia. of armour wire nom. (mm)	Thickness of outer sheath nom. (mm)	Overall Diameter approx. (mm)
1.5 mm²						
5	0.7	1.2	22.3	1.25	1.6	28.0

The data included in the present catalogue are merely indicative; Caledonian Cables Limited reserves to itself the right to change them as its own discretion in any time.