

## FT75-CSIS SERIES

High Performance Multipair Overall Foil Screened Tinned Instrumentation Cable  
110VAC 90°C



### APPLICATIONS:

**Hazardous Areas** Suitable for wiring of intrinsically safe circuits.

**Signal and Controls** Power control or signal/instrumentation cables on machines, conveying equipment or similar industrial applications.

**Marine** Tinned copper conductors for use in marine applications

### PRODUCT FEATURES:

- ▶ Extremely pliable PVC sheath
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Reduced flame propagation
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded (Class 2).

**Insulation** Special SPVC V-90 (available in LSHF on request).

**Filler** Non-hydroscopic polypropylene filler.

**Screening** Collective shield of aluminium/polyester foil complete with tinned copper drain wire (7 strands of 0.2mm<sup>2</sup>).

**Sheath** Special SPVC 5V-90 (available in LSHF on request).

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C.

**Maximum Conductor Temperature** 90°C.

**Rated Voltage** 110VAC / 150VDC.

**Minimum Bending Radius** 10 x cable diameter.

**Sheath Colour** Intrinsically safe blue.

**Standard Core Colours** Each pair – 1 x White and 1 x Black conductor, with numbered cores.

**Relevant Standards** AS/NZS 1125, AS/NZS 3808, IEC 60332-1-2, IEC 60332-3-22, IEC 60079.14, **RoHS** Compliant.

Property	0.75mm <sup>2</sup>	
	Value	Units
DC Conductor Resistance @ 20°C	24.5	Ω/km
Inductance @ 1kHz	0.98	mH/km
L/R ratio @ 1kHz	20	μH/Ω
Insulation Resistance @ 20°C	140	MΩ.km

Code	No. of Cores x Size  (mm <sup>2</sup> )	Nearest AWG	Approx. Stranding	Approx. Overall Diameter	Approx. Weight
			No. of wires x mm <sup>2</sup>	(mm)	(Kg/Km)
<b>FT7501CSIS</b>	1 pair 0.75	18	7/0.37	5.8	40
<b>FT7502CSIS</b>	2 pair 0.75	18	7/0.37	8.5	71
<b>FT7504CSIS</b>	4 pair 0.75	18	7/0.37	10.0	118