INSTRUMENTATION CABLES

FT50/55-ESCS/SWA SERIES

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

APPLICATIONS:

Hazardous Areas This Steel Wire Armour cable is suitable for use for instrumentation in petrol, oil and gas field industries, mine sites and other harsh environments.

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:

- Steel wire armoured for hazardous conditions
- 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.

Bedding Flame retardant 5V-90 PVC extruded non hydroscopic. **Armour** Steel wire armour.

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 black. 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 60079.14, IEC 60332-3-22, *RoHS* Compliant.

Property	0.5mm²		1.5mm ²	
	Value	Units	Value	Units
DC Conductor Resistance @ 20°C	38.4	Ω/km	13.6	Ω/km
Max. Capacitance Cond. to Cond. (screened)	145	pF/m	200	pF/m
Max. Capacitance Cond. to Scr. (screened)	240	pF/m	300	pF/m
Max. Capacitance Cond. to Cond. (unscreened)	82	pF/m	110	pF/m
Cross talk attenuation between pairs @ 1kHz (screened)	>125	dB/100m	>125	dB/100m
Cross talk attenuation between pairs @ 1kHz (unscreened)	>90	dB/100m	>90	dB/100m
Characteristic impedance @ 1kHz (screened)	300	Ω	150	Ω
Characteristic impedance @ 1kHz (unscreened)	380	Ω	200	Ω
Inductance @ 1kHz	1.00	mH/km	0.95	mH/km
L/R ratio @ 1kHz	13.7	μΗ/Ω	36.5	μΗ/Ω
Insulation Resistance @ 20°C	140	MΩ.km	140	MΩ.km

See over for full product table >

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