

INSTRUMENTATION CABLES

FT50/55-ESCS SERIES

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



APPLICATIONS:

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-hygroscopic polypropylene filler.

Screening Collective & individual shield of aluminium/polyester foil complete with tinned copper drain wire (7 strands of 0.2mm²).

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 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	0.5mm ²		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	μH/Ω	36.5	μH/Ω
Insulation Resistance @ 20°C	140	MΩ.km	140	MΩ.km

See over for full product table ▶

FT50/55-ESCS SERIES continued

Code	No. of Cores x Size (mm ²)	Nearest AWG	Approx. Stranding No. of wires x mm ²	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
FT5002ESCS	2 pair 0.5	20	7/0.30	7.6	58
FT5004ESCS	4 pair 0.5	20	7/0.30	10.4	100
FT5006ESCS	6 pair 0.5	20	7/0.30	12.7	145
FT5008ESCS	8 pair 0.5	20	7/0.30	14.5	193
FT5010ESCS	10 pair 0.5	20	7/0.30	14.9	244
FT5012ESCS	12 pair 0.5	20	7/0.30	15.4	279
FT5016ESCS	16 pair 0.5	20	7/0.30	16.3	370
FT5020ESCS	20 pair 0.5	20	7/0.30	19.3	462
FT5024ESCS	24 pair 0.5	20	7/0.30	23.5	558
FT5036ESCS	36 pair 0.5	20	7/0.30	25.3	792
FT5502ESCS	2 pair 1.5	15	7/0.50	10.0	113
FT5504ESCS	4 pair 1.5	15	7/0.50	12.1	199
FT5506ESCS	6 pair 1.5	15	7/0.50	14.6	290
FT5508ESCS	8 pair 1.5	15	7/0.50	16.2	381
FT5510ESCS	10 pair 1.5	15	7/0.50	19.0	470
FT5512ESCS	12 pair 1.5	15	7/0.50	21.1	570
FT5516ESCS	16 pair 1.5	15	7/0.50	22.2	717
FT5520ESCS	20 pair 1.5	15	7/0.50	24.2	884
FT5524ESCS	24 pair 1.5	15	7/0.50	27.8	1064
FT5536ESCS	36 pair 1.5	15	7/0.50	31.9	1535