

FT53/56-ESCS SERIES

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



APPLICATIONS:

Control Electrical sensing devices to control cabinets and to supervisory consoles and panels.

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.

Oil and gas industry with vertical flame propagation to IEC 60332-3-22.

PRODUCT FEATURES:

- ▶ Tinned copper conductors
- ▶ 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 & 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 (available in intrinsically safe blue and other colours on request).

Standard Core Colours Each Triad – 1 x White, 1 x Black, 1 Red 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	36.7	Ω/km	12.2	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 ▶

FT53/56-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)
FT5302ESCS	2 triple 0.5	20	7/0.30	10.0	117
FT5303ESCS	3 triple 0.5	20	7/0.30	11.1	127
FT5304ESCS	4 triple 0.5	20	7/0.30	11.6	140
FT5306ESCS	6 triple 0.5	20	7/0.30	14.0	200
FT5308ESCS	8 triple 0.5	20	7/0.30	16.4	260
FT5310ESCS	10 triple 0.5	20	7/0.30	18.1	310
FT5312ESCS	12 triple 0.5	20	7/0.30	18.5	360
FT5316ESCS	16 triple 0.5	20	7/0.30	22.3	470
FT5320ESCS	20 triple 0.5	20	7/0.30	26.3	658
FT5324ESCS	24 triple 0.5	20	7/0.30	31.3	760
FT5336ESCS	36 triple 0.5	20	7/0.30	32.7	1040
FT5602ESCS	2 triple 1.5	15	7/0.50	12.2	193
FT5603ESCS	3 triple 1.5	15	7/0.50	13.4	244
FT5604ESCS	4 triple 1.5	15	7/0.50	15.7	300
FT5606ESCS	6 triple 1.5	15	7/0.50	21.0	450
FT5608ESCS	8 triple 1.5	15	7/0.50	25.6	600
FT5610ESCS	10 triple 1.5	15	7/0.50	26.9	730
FT5612ESCS	12 triple 1.5	15	7/0.50	28.1	840
FT5616ESCS	16 triple 1.5	15	7/0.50	33.9	1150
FT5620ESCS	20 triple 1.5	15	7/0.50	36.9	1291
FT5624ESCS	24 triple 1.5	15	7/0.50	41.4	1700
FT5636ESCS	36 triple 1.5	15	7/0.50	50.6	2560