

FT53/56-CS SERIES

High Performance Triad Overall 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 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-CS 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)
FT5301CS	1 triple 0.5	20	7/0.30	5.2	36
FT5302CS	2 triple 0.5	20	7/0.30	7.8	70
FT5303CS	3 triple 0.5	20	7/0.30	8.2	93
FT5304CS	4 triple 0.5	20	7/0.30	9.2	120
FT5306CS	6 triple 0.5	20	7/0.30	11.3	179
FT5308CS	8 triple 0.5	20	7/0.30	12.2	225
FT5310CS	10 triple 0.5	20	7/0.30	14.6	290
FT5312CS	12 triple 0.5	20	7/0.30	15.5	348
FT5316CS	16 triple 0.5	20	7/0.30	17.1	442
FT5320CS	20 triple 0.5	20	7/0.30	18.6	543
FT5324CS	24 triple 0.5	20	7/0.30	21.3	653
FT5336CS	36 triple 0.5	20	7/0.30	24.4	936
FT5103ES	1 triple 1.5	15	7/0.50	8.0	70
FT5602CS	2 triple 1.5	15	7/0.50	10.0	142
FT5603CS	3 triple 1.5	15	7/0.50	11.0	198
FT5604CS	4 triple 1.5	15	7/0.50	11.8	251
FT5606CS	6 triple 1.5	15	7/0.50	14.5	373
FT5608CS	8 triple 1.5	15	7/0.50	16.0	491
FT5610CS	10 triple 1.5	15	7/0.50	19.1	624
FT5612CS	12 triple 1.5	15	7/0.50	19.7	726
FT5616CS	16 triple 1.5	15	7/0.50	22.5	946
FT5620CS	20 triple 1.5	15	7/0.50	24.3	1153
FT5624CS	24 triple 1.5	15	7/0.50	27.7	1374
FT5636CS	36 triple 1.5	15	7/0.50	32.0	2014