

FT20-ESCS SERIES

High Performance Multipair Overall & Individually Foil Screened Tinned Data Cable 110V 90°C



APPLICATIONS:

BUS Systems High performance, extra low capacitance cable suitable for RS485, RS422 POS, building and home BUS automation systems.

Data Suitable for connecting data terminal and data communication equipment.

E.L.V Signal and Controls (Does not exceed 50V AC or 120V DC Ripple Free) E.L.V 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:

- ▶ Tinned copper conductors
- ▶ Extremely pliable PVC sheath
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extra low capacitance polyethylene insulation for extended pair operation
- ▶ Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

Conductor Annealed tinned copper stranded (Class 2).

Insulation Polypropylene (available in LSHF on request).

Screening Collective and individual shield of aluminium/polyester foil complete with tinned copper drain wire.

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

CHARACTERISTICS:

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

Maximum Conductor Temperature 90°C.

Rated Voltage 110VRMS/150VDC.

Minimum Bending Radius 10 x cable diameter.

Sheath Colour Grey, Black.

Standard Core Colours Each pair – (See Technical Section – Core Colours Chart B).

Relevant Standards AS/NZS 3808, **RoHS** Compliant.

Electrical Characteristics

Property		Value	Unit
DC Conductor Resistance	@ 20°C	89	Ω/km
Capacitance between wires of a pair		68	pF/m
Cross-talk attenuation Between Pairs	@ 1kHz	>100	dB/100m
	@ 100kHz	>80	dB/100m
Characteristic Impedance	@ 1kHz	115	Ω
Attenuation of a Pair	@ 1kHz	0.20	dB/100m
	@ 10kHz	0.50	dB/100m
	@ 100kHz	1.00	dB/100m
	@ 150kHz	1.30	dB/100m
	@ 1.0MHz	3.60	dB/100m
	@ 1.5MHz	4.60	dB/100m

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)
FT2002ESCS	2 pair 0.22	24	7/0.20	6.7	46.5
FT2003ESCS	3 pair 0.22	24	7/0.20	7.6	56.1
FT2004ESCS	4 pair 0.22	24	7/0.20	8.3	66.8
FT2005ESCS	5 pair 0.22	24	7/0.20	9.8	85.6
FT2006ESCS	6 pair 0.22	24	7/0.20	10.7	97.4
FT2008ESCS	8 pair 0.22	24	7/0.20	10.7	117.2
FT2010ESCS	10 pair 0.22	24	7/0.20	11.4	141.9
FT2012ESCS	12 pair 0.22	24	7/0.20	12.4	159.9
FT2018ESCS	18 pair 0.22	24	7/0.20	15.3	218.5
FT2025ESCS	25 pair 0.22	24	7/0.20	17.4	312.2

Profile has been every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Profile reserves the right to modify specifications at any time.