DATA, AUDIO & COMMUNICATION CABLES

FIRSTFLEX

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FT8I SERIES

High Performance BMS/Control Overall Foil Screened Tinned Cable 110VAC 90°C

APPLICATIONS:

BMS Used for building management systems and cabling for HVAC controls.
Audio Oxygen free copper for audio applications, PA systems and security gate intercoms.

PRODUCT FEATURES:

- Fine stranded tinned copper conductor
- UV stabilised
- Flame retardant
- Heat, oil and chemical resistant *(See Technical Section)*

CONSTRUCTION:

Conductor Annealed tinned copper stranded (Class 2).
Insulation PE Polyethylene.
Screening Collective shield of aluminium/polyester foil complete with tinned copper drain wire.
Sheath SPVC 5V-90.

CHARACTERISTICS:

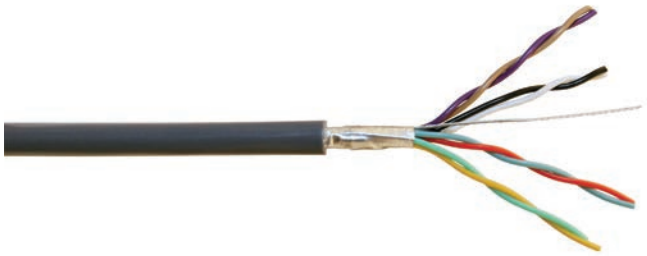
Operating Temperature Range Fixed -20°C to 75°C.
Maximum Conductor Temperature 75°C.
Rated Voltage 110V RMS.
Minimum Bending Radius Fixed 7.5 x cable diameter.
Sheath Colour Black.
Standard Core Colour
1 Pair - Black & Natural.
1 Triple - Black, Red & Natural.
Relevant Standards AS/NZS 3808, AS/NZS 3008, IEC 60332-1-2, RoHS Compliant.

Electrical Characteristics		
Property	**Value**	**Unit**
DC Conductor Resistance @ 20°C	2.57	Ω/100m
Capacitance between wires of a pair/triple	79	pF/m
Minimum Insulation Resistance @ 20°C	500	M Ω/100m

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm²	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
FT8101CSBMS	1 pair 0.81	16/0.25	5.6	46
FT8103CSBMS	1 triple 0.81	16/0.25	6.4	65

FT95-CS SERIES

High Performance Multipair Overall Foil Screened Tinned Data Cable 110VAC 90°C



APPLICATIONS:

BUS Systems High performance, extra low capacitance cable suitable for RS232 building and home BUS automation systems.
Data Suitable for connecting data terminal and data communication equipment.
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
- 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).
Screening Collective shield of aluminium/polyester foil complete .with tinned copper drain wire.
Sheath Special SPVC V-90 (available in LSHF on request).

CHARACTERISTICS:

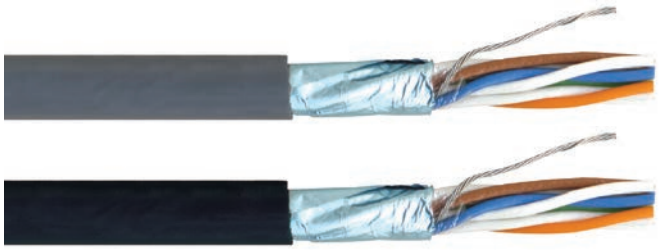
Operating Temperature Range Fixed -20°C to 90°C.
Maximum Conductor Temperature 90°C.
Rated Voltage 110VRMS/150VDC.
Minimum Bending Radius 10 x cable diameter.
Sheath Colour Grey.
Standard Core Colours Each pair *(See Technical Section)*
Relevant Standards AS/NZS 3808, IEC 60332-1-2,
RoHS Compliant.

Electrical Characteristics			
Property		Value	Unit
DC Conductor Resistance	@ 20°C	89	Ω/km
Capacitance between wires of a pair		95	pF/m
Cross-talk attenuation Between Pairs	@ 1kHz	>70	dB/100m
	@ 100kHz	>45	dB/100m
Characteristic Impedance	@ 1kHz	95	Ω
Attenuation of a Pair	@ 1kHz	0.20	dB/100m
	@ 10kHz	0.60	dB/100m
	@ 100kHz	1.20	dB/100m
	@ 150kHz	1.50	dB/100m
	@ 1.0MHz	4.40	dB/100m
	@ 1.5MHz	5.40	dB/100m

Code	No. of Cores x Size (mm²)	Nearest AWG	Approx. Stranding No. of wires x mm²	Approx. Overall Diameter (mm²)	Approx. Weight (Kg/Km)
FT9501CS	1 pair 0.22	24	7/0.20	4.0	22.4
FT9502CS	2 pair 0.22	24	7/0.20	5.1	32.0
FT9503CS	3 pair 0.22	24	7/0.20	5.8	41.9
FT9504CS	4 pair 0.22	24	7/0.20	6.4	51.1
FT9506CS	6 pair 0.22	24	7/0.20	7.6	71.4
FT9509CS	9 pair 0.22	24	7/0.20	8.8	95.9
FT9512CS	12 pair 0.22	24	7/0.20	10.0	124.0
FT9518CS	18 pair 0.22	24	7/0.20	12.0	180.4
FT9525CS	25 pair 0.22	24	7/0.20	13.8	237.9

FT20-CS SERIES

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



APPLICATIONS:

BUS Systems High performance, extra low capacitance cable suitable for RS232, 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:

- 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 shield of aluminium/polyester foil complete with tinned copper drain wire.
Sheath Special SPVC V-90 (available in LSHF on request).

CHARACTERISTICS:

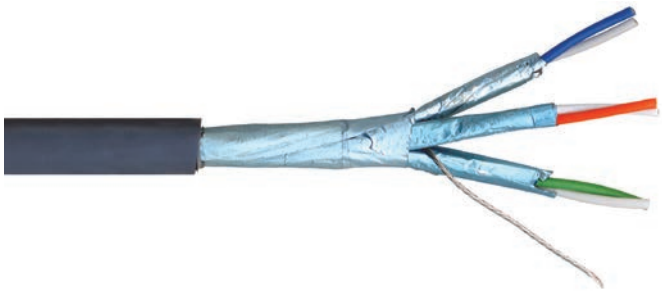
Operating Temperature Range Fixed -20°C to 90°C.
Maximum Conductor Temperature 90°C.
Rated Voltage 110VRMS/150VDC.
Minimum Bending Radius 10 x cable diameter.
Sheath Colour Grey, Black.
Standard Core Colours Each pair – *(See Technical Section)*.
Relevant Standards AS/NZS 3808, RoHS Compliant.

Electrical Characteristics			
Property		**Value**	**Unit**
DC Conductor resistance	@ 20°C	89	Ω/km
Capacitance between wires of a pair		50	pF/m
Cross-talk attenuation between pairs	@ 1kHz	>90	dB/100m
	@ 100kHz	>50	dB/100m
Characteristic Impedance	@ 1kHz	135	Ω
Attenuation of a pair	@ 1kHz	0.15	dB/100m
	@ 10kHz	0.42	dB/100m
	@ 100kHz	0.80	dB/100m
	@ 150kHz	0.90	dB/100m
	@ 1.0MHz	1.90	dB/100m
	@ 1.5MHz	2.40	dB/100m

Code	No. of Cores x Size (mm²)	Nearest AWG	Approx. Stranding No. of wires x mm²	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
FT2001CS	1 pair 0.22	24	7/0.20	4.2	22.9
FT2002CS	2 pair 0.22	24	7/0.20	5.6	40.9
FT2003CS	3 pair 0.22	24	7/0.20	6.2	48.4
FT2004CS	4 pair 0.22	24	7/0.20	6.7	57.9
FT2005CS	5 pair 0.22	24	7/0.20	8.4	74.1
FT2006CS	6 pair 0.22	24	7/0.20	7.9	83.5
FT2008CS	8 pair 0.22	24	7/0.20	8.5	99.0
FT2010CS	10 pair 0.22	24	7/0.20	10.1	120.1
FT2012CS	12 pair 0.22	24	7/0.20	10.8	133.9
FT2018CS	18 pair 0.22	24	7/0.20	12.8	179.7
FT2025CS	25 pair 0.22	24	7/0.20	15.1	236.1

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:

- 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)*.
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 (mm²)	Nearest AWG	Approx. Stranding No. of wires x mm²	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

HCG3 SERIES

High Performance Flexible Overall Foil Screened Cable 110V 75°C

APPLICATIONS:

BUS Systems Extra low capacitance cable suitable for RS232, RS423 and building and home BUS automation systems.
Audio Oxygen free copper for audio controls.
E.L.V Signal and Controls (Does not exceed 50V AC or 120V DC Ripple Free) Fixed wiring E.L.V power control or signal cables on machines, conveying equipment, instrumentation or similar industrial applications.
Marine Tinned copper conductors for use in marine applications.

PRODUCT FEATURES:

- Tinned fine stranded copper conductor
- High flexibility
- Prevents external interference
- UV stabilised
- Flame retardant
- Heat, oil and chemical resistant *(See Technical Section)*

CONSTRUCTION:

Conductor Annealed tinned copper stranded high flexibility (Class 5).
Insulation Special SPVC.
Screening Collective shield of aluminium/polyester foil c/w tinned copper drain wire.
Sheath Special SPVC.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 75°C.
Maximum Conductor Temperature 75°C.
Rated Voltage 110VRMS/150VDC.
Minimum Bending Radius Fixed 10 x cable diameter.
Sheath Colour Grey.
Standard Core Colours *(See Technical Section - Core Colours chart A)*
Resistance Maximum 38.20 ohms/Km @ 20°C.
Capacitance Nominal wire to wire pF/M150.
Relevant Standards AS/NZS 1125, IEC 60332-1,
RoHS Compliant.

Code	No. of Cores x Size (mm²)	Nearest AWG	Approx. Stranding No. of wires x mm²	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
HCG303	3 x 0.5	20	16/0.20	5.7	54
HCG304	4 x 0.5	20	16/0.20	5.7	57
HCG306	6 x 0.5	20	16/0.20	7.1	78
HCG308	8 x 0.5	20	16/0.20	7.7	110