

FIRSTRONIC MULTIPAIR OVERALL FOIL SCREENED SPVC TINNED INSTRUMENTATION CABLES 110V RMS 90°C

FT50-CS
FT55-CS

SERIES



APPLICATIONS:

BUS Systems Extra low capacitance cable suitable for **RS485, RS422 POS**, building and home **BUS** automation systems.

ELV Signal and Controls 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

CONSTRUCTION:

Conductor Annealed wires of tinned stranded electrolytic copper

Insulation Special SPVC V90HT (available in LSHF on request)

Screening Collective shield of Aluminum/Polyester foil complete with Tinned copper drain wire (7 strands of 0.2mm²)

Sheath Special SPVC V90 (available in LSHF on request)

CHARACTERISTICS:

Temperature Range Fixed -20°C to 90°C

Rated Voltage 110VRMS/300VDC

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 (Triple – white/black/red)

Maximum Conductor Temperature 90°C

Relevant Standards AS/NZS 1125, AS/NZS 3808, IEC60332-1, IEC60332-3 CAT A, CENELEC Directive 2006/95/EC and **RoHS** Compliant.

PRODUCT FEATURES:

- ▶ Extremely Pliable PVC Sheath
- ▶ Flame retardant
- ▶ Reduced flame propagation
- ▶ UV Stabilised
- ▶ Heat, oil and chemical resistant (refer to chemical chart page 264)

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

▼ Continued Over Page ▼

Part Number	Number of Cores x Size mm ²	Nearest AWG	Approximate Stranding No. wires x mm ²	Approximate Overall Diameter mm ²	Approximate Weight Kg/Km	Olex Cables Product Code	General Cables Product Code	Maser Communications Product Code
FT5001CS	1 pair 0.5	20	7/0.30	5.1	28	IEC 183AA001	B5001CS	B1033B
FT5002CS	2 pair 0.5	20	7/0.30	6.9	51	IEC 183AA002	B5002CS	B3016B
FT5003CS	3 pair 0.5	50	7/0.30	8.8	97	IEC 183AA003	B5003CS	-
FT5004CS	4 pair 0.5	20	7/0.30	9.0	86	IEC 183AA004	B5004CS	B1056B
FT5006CS	6 pair 0.5	20	7/0.30	10.7	124	IEC 183AA006	B5006CS	B5006B
FT5008CS	8 pair 0.5	20	7/0.30	11.7	166	IEC 183AA008	B5008CS	B1057B
FT5010CS	10 pair 0.5	20	7/0.30	13.9	210	IEC 183AA010	B5010CS	B5010B
FT5012CS	12 pair 0.5	20	7/0.30	14.3	239	IEC 183AA012	B5012CS	B1058B
FT5016CS	16 pair 0.5	20	7/0.30	16.3	317	IEC 183AA016	B5016CS	B1059B
FT5020CS	20 pair 0.5	20	7/0.30	17.9	396	IEC 183AA020	B5020CS	B5020B
FT5024CS	24 pair 0.5	20	7/0.30	20.5	477	IEC 183AA024	B5024CS	B1060B
FT5036CS	36 pair 0.5	20	7/0.30	23.5	675	IEC 183AA036	B5036CS	B1061B
FT5102ES	1 pair 1.5	15	7/0.50	6.9	53	IEB 184AA001	B5102ES	B1030B
FT5103ES	1 triple 1.5	15	7/0.50	8.0	70	IEB 184AA001	B5103ES	B1031B
FT5502CS	2 pair 1.5	15	7/0.50	10.2	103	IEC 184AA002	B5502CS	B3043B
FT5504CS	4 pair 1.5	15	7/0.50	13.0	183	IEC 184AA004	B5504CS	B1484B
FT5506CS	6 pair 1.5	15	7/0.50	14.0	266	IEC 184AA006	B5506CS	-
FT5508CS	8 pair 1.5	15	7/0.50	15.2	349	IEC 184AA008	B5508CS	B1485B
FT5510CS	10 pair 1.5	15	7/0.50	18.2	430	IEC 184AA010	B5510CS	-
FT5512CS	12 pair 1.5	15	7/0.50	19.0	506	IEC 184AA012	B5512CS	B1486B
FT5516CS	16 pair 1.5	15	7/0.50	21.3	658	IEC 184AA016	B5516CS	B3050B
FT5520CS	20 pair 1.5	15	7/0.50	23.4	809	-	-	-
FT5524CS	24 pair 1.5	15	7/0.50	27.0	974	IEC 184AA024	B5524CS	B1489B
FT5536CS	36 pair 1.5	15	7/0.50	29.7	1403	IEC 184AA036	B5536CS	-