INSTRUMENTATION CABLES

FT50/55-CS/SWA SERIES

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

APPLICATIONS:

Hazardous Areas This steel wire armour cable is suitable for use for instrumentation in oil and gas industries, mine sites and other harsh environments.

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
- Steel wire armoured for hazardous conditions
- 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.

Bedding Flame retardant 5V-90 PVC extruded non-hydroscopic. **Armour** Steel wire armour.

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. Standard Core Colours Each pair – 1 x White and 1 x Black 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	0.5m	m²	1.5mm²		
	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	μΗ/Ω	36.5	μΗ/Ω	
Insulation Resistance @ 20°C	140	MΩ.km	140	MΩ.km	

See over for full product table >

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



FT50/55-CS/SWA SERIES continued

Code	No. of Cores x Size (mm²)	Nearest AWG	Approx. Stranding No. of wires x mm ²	Overall Diameter over bedding (mm)	Overall Diameter over Armour (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Gland Size
FT5001CSSWA	1 pair 0.5	20	7/0.30	5.6	7.4	10.4	225	GMCW16 or GMCW20SS
FT5002CSSWA	2 pair 0.5	20	7/0.30	8.6	10.4	12.5	298	GMCW16 or GMCW20SS
FT5004CSSWA	4 pair 0.5	20	7/0.30	9.8	11.6	14.5	358	GMCW20S
FT5006CSSWA	6 pair 0.5	20	7/0.30	10.6	12.4	15.5	440	GMCW20S
FT5008CSSWA	8 pair 0.5	20	7/0.30	11.4	13.2	16.7	507	GMCW20
FT5010CSSWA	10 pair 0.5	20	7/0.30	13.3	15.1	18.7	592	GMCW25
FT5012CSSWA	12 pair 0.5	20	7/0.30	13.7	15.5	19.1	632	GMCW25
FT5016CSSWA	16 pair 0.5	20	7/0.30	15.4	17.2	21.3	763	GMCW25
FT5020CSSWA	20 pair 0.5	20	7/0.30	16.6	19.1	23.2	1006	GMCW25
FT5024CSSWA	24 pair 0.5	20	7/0.30	18.9	21.4	25.6	1150	GMCW25
FT5036CSSWA	36 pair 0.5	20	7/0.30	21.8	24.3	28.8	1449	GMCW32
FT5102ESSWA	1 pair 1.5	15	7/0.50	6.7	8.5	11.5	278	GMCW16 or GMCW20SS
FT5502CSSWA	2 pair 1.5	15	7/0.50	10.4	12.2	14.3	390	GMCW20S
FT5504CSSWA	4 pair 1.5	15	7/0.50	11.9	13.7	17.8	498	GMCW20
FT5506CSSWA	6 pair 1.5	15	7/0.50	13.2	15.0	18.3	651	GMCW20
FT5508CSSWA	8 pair 1.5	15	7/0.50	14.2	16.0	19.2	749	GMCW25
FT5510CSSWA	10 pair 1.5	15	7/0.50	16.7	19.2	22.5	1043	GMCW25
FT5512CSSWA	12 pair 1.5	15	7/0.50	17.3	19.8	23.8	1150	GMCW25
FT5516CSSWA	16 pair 1.5	15	7/0.50	19.4	21.9	26.0	1370	GMCW32
FT5520CSSWA	20 pair 1.5	15	7/0.50	21.3	23.8	28.1	1591	GMCW32
FT5524CSSWA	24 pair 1.5	15	7/0.50	24.3	26.8	32.1	1856	GMCW40
FT5536CSSWA	36 pair 1.5	15	7/0.50	27.9	31.1	35.0	2645	GMCW50

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

