

FT53/56-CS/SWA SERIES

High Performance Triad 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.

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
- ▶ 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 (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 60079.1, 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/SWA SERIES continued

Code	No. of Cores x Size (mm ²)	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
FT5301CSSWA	1 triple 0.5	20	7/0.30	5.9	7.7	10.6	239	GMCW16 or GMCW20SS
FT5302CSSWA	2 triple 0.5	20	7/0.30	8.1	9.9	12.8	329	GMCW16 or GMCW20SS
FT5304CSSWA	4 triple 0.5	20	7/0.30	10.4	12.2	14.2	380	GMCW20S
FT5306CSSWA	6 triple 0.5	20	7/0.30	12.7	15.2	17.4	580	GMCW20
FT5308CSSWA	8 triple 0.5	20	7/0.30	14.4	16.9	19.3	690	GMCW25S
FT5310CSSWA	10 triple 0.5	20	7/0.30	16.1	18.6	21.2	790	GMCW25S
FT5312CSSWA	12 triple 0.5	20	7/0.30	16.3	18.8	21.4	850	GMCW25S
FT5316CSSWA	16 triple 0.5	20	7/0.30	20.2	23.4	26.2	1200	GMCW25
FT5320CSSWA	20 triple 0.5	20	7/0.30	22.4	25.6	28.9	1540	GMCW32
FT5324CSSWA	24 pair 0.5	20	7/0.30	24.7	27.9	31.4	1680	GMCW32
FT5336CSSWA	36 triple 0.5	20	7/0.30	29.8	32.9	36.6	2200	GMCW40
FT5103ESSWA	1 triple 1.5	15	7/0.50	7.0	8.8	11.7	303	GMCW16 or GMCW20SS
FT5602CSSWA	2 triple 1.5	15	7/0.50	9.9	11.7	14.6	437	GMCW20S
FT5604CSSWA	4 triple 1.5	15	7/0.50	14.9	17.4	20.0	760	GMCW25S
FT5606CSSWA	6 triple 1.5	15	7/0.50	18.1	21.3	24.2	1130	GMCW25S
FT5608CSSWA	8 triple 1.5	15	7/0.50	18.5	21.7	24.7	1150	GMCW25
FT5610CSSWA	10 triple 1.5	15	7/0.50	23.1	26.3	29.6	1680	GMCW32
FT5612CSSWA	12 triple 1.5	15	7/0.50	25.3	28.5	32.0	2210	GMCW32
FT5616CSSWA	16 triple 1.5	15	7/0.50	28.8	32.0	35.5	2840	GMCW40
FT5620CSSWA	20 triple 1.5	15	7/0.50	31.8	35.0	38.5	3470	GMCW40S
FT5624CSSWA	24 triple 1.5	15	7/0.50	35.4	40.4	45.0	3790	GMCW50S
FT5636CSSWA	36 triple 1.5	15	7/0.50	42.6	47.6	52.3	4950	GMCW50