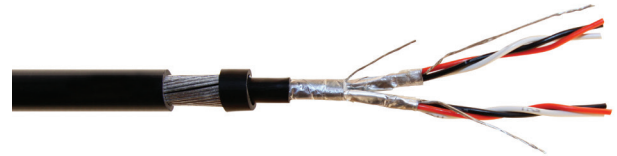


# INSTRUMENTATION CABLES

## FT53/56-ESCS/SWA SERIES

High Performance Triad SWA Overall & Individually 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 and individual 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 2381, AS/NZS 3808, IEC 60332-1-2, IEC 60079.14, IEC 60332-3-22, **RoHS** Compliant.

Property	0.5mm <sup>2</sup>		1.5mm <sup>2</sup>	
	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-ESCS/SWA SERIES continued

Code	No. of Cores x Size (mm <sup>2</sup> )	Nearest AWG	Approx. Stranding  No. of wires x mm <sup>2</sup>	Overall Diameter over bedding  (mm)	Overall Diameter over Armour  (mm)	Approx. Overall Diameter  (mm)	Approx. Weight  (Kg/Km)	Gland Size
<b>FT5302ESCSWA</b>	2 triple 0.5	20	7/0.30	9.6	11.4	13.6	240	GMCW20S
<b>FT5304ESCSWA</b>	4 triple 0.5	20	7/0.30	11.6	13.4	15.6	410	GMCW20S
<b>FT5306ESCSWA</b>	6 triple 0.5	20	7/0.30	14.0	16.5	19.0	640	GMCW20
<b>FT5308ESCSWA</b>	8 triple 0.5	20	7/0.30	16.4	18.9	21.6	780	GMCW25S
<b>FT5310ESCSWA</b>	10 triple 0.5	20	7/0.30	16.7	19.2	21.9	850	GMCW25S
<b>FT5312ESCSWA</b>	12 triple 0.5	20	7/0.30	18.5	21.7	24.7	1100	GMCW25S
<b>FT5316ESCSWA</b>	16 triple 0.5	20	7/0.30	22.3	25.5	28.5	1350	GMCW32
<b>FT5320ESCSWA</b>	20 triple 0.5	20	7/0.30	24.9	28.1	31.6	1560	GMCW32
<b>FT5324ESCSWA</b>	24 pair 0.5	20	7/0.30	27.9	31.1	34.6	1800	GMCW40
<b>FT5336ESCSWA</b>	36 triple 0.5	20	7/0.30	31.1	35.1	39.2	2600	GMCW40
<b>FT5602ESCSWA</b>	2 triple 1.5	15	7/0.50	12.7	15.2	17.8	400	GMCW20
<b>FT5604ESCSWA</b>	4 triple 1.5	15	7/0.50	15.7	18.2	20.8	800	GMCW25S
<b>FT5606ESCSWA</b>	6 triple 1.5	15	7/0.50	22.8	26.0	29.3	1400	GMCW32
<b>FT5608ESCSWA</b>	8 triple 1.5	15	7/0.50	25.6	28.8	32.4	1660	GMCW32
<b>FT5610ESCSWA</b>	10 triple 1.5	15	7/0.50	26.3	29.5	33.2	1800	GMCW40
<b>FT5612ESCSWA</b>	12 triple 1.5	15	7/0.50	27.2	30.4	33.9	1920	GMCW40
<b>FT5616ESCSWA</b>	16 triple 1.5	15	7/0.50	27.9	31.1	34.6	2180	GMCW40
<b>FT5620ESCSWA</b>	20 triple 1.5	15	7/0.50	31.4	36.2	40.7	2600	GMCW40
<b>FT5624ESCSWA</b>	24 triple 1.5	15	7/0.50	34.2	39.2	43.7	3800	GMCW50S
<b>FT5636ESCSWA</b>	36 triple 1.5	15	7/0.50	41.9	46.9	52.0	4350	GMCW50S