# FT655-ESCS SERIES

**High Performance Multipair Overall & Individually Foil Screened Tinned Instrumentation Cable 0.6 / 1kV 90°C**



## APPLICATIONS:

**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.
**Low Voltage** With its 600V rated insulation and 1.8mm thick sheath, this series is suitable to run next to low voltage mains.

## PRODUCT FEATURES:

- 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.
**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** 0.6/1kV.
**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 | 1.5mm² | |
|---|---|---|
| | Value | Units |
| DC Conductor Resistance @ 20°C | 13.6 | Ω/km |
| Inductance @ 1kHz | 0.95 | mH/km |
| L/R ratio @ 1kHz | 36.5 | µH/Ω |
| Insulation Resistance @ 20°C | 140 | MΩ.km |

| Code | No. of Cores x Size (mm²) | Nearest AWG | Approx. Stranding No. of wires x mm² | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) |
|---|---|---|---|---|---|
| FT65102ES | 1 pair 1.5 | 15 | 7/0.50 | 10.0 | 63 |
| FT65502ESCS | 2 pair 1.5 | 15 | 7/0.50 | 11.6 | 123 |
| FT65504ESCS | 4 pair 1.5 | 15 | 7/0.50 | 14.0 | 209 |
| FT65103ES | 1 triple 1.5 | 15 | 7/0.50 | 10.4 | 80 |