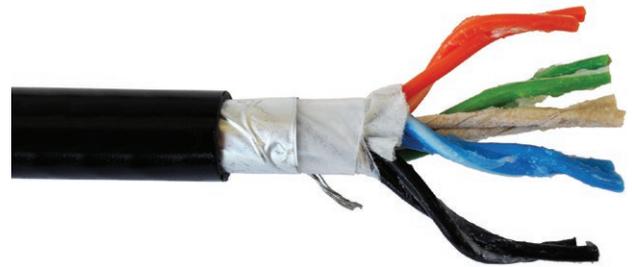


# TC FEEDER SERIES

High Performance Fixed Instrumentation Traffic Feeder Cable  
300V 70°C



**APPLICATIONS:**

**Traffic Signals** Gel filled instrumentation cables for traffic signal installations.

**PRODUCT FEATURES:**

- ▶ UV resistant
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

**CONSTRUCTION:**

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** LDPE.

**Cable Filler** Transparent LDPE.

**Water Block Material** Gel filled with water block tape to AS/NZS 2276.2.

**TCGEL-ES (Individual Pair Screen)** PET+ Aluminium/Polyster tape screen applied with 7/0.25mm TC drain wire complete with gel compound.

**TCGEL (Overall Screen)** Aluminium/Polyster tape screen applied with 7/0.25mm TC drain wire and gel compound.

**Sheath** PVC 4V-75.

**CHARACTERISTICS:**

**Operating Temperature Range** Fixed -20°C to 70°C.

**Maximum Conductor Temperature** 70°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Max. Conductor Resistance** 13.6 Ω/kM.

**Min. Insulation Resistance** 20G Ω/kM @ 500Vdc.

**Mutual Capacitance** 65-80nF/kM @ 1kHz.

**Max. Water Penetration** 3% Maximum variation of C<sup>3</sup> between cores.

**Rated Voltage** 300V.

**Minimum Bending Radius** 12 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colour**

PAIR 1: Blue, Blue with White Stripe.

PAIR 2: Orange, Orange with White Stripe.

PAIR 3: Green, Green with White Stripe.

PAIR 4: Black, Black with White Stripe.

**NOTE: THE CABLE HAS A PAIR TO NUMBER MARKING ON THE SHEATH FOR IDENTIFICATION PURPOSES.**

**Relevant Standards** AS/NZS 2276.2 (exception to overall diameter for 2 & 4 pair cables), AS/NZS 1125, AS/NZS 1660, AS/NZS 1049 and

**RoHS** Compliant.

TRAFFIC, SOLAR & IRRIGATION CABLES

Code	No. of Cores x Size (mm <sup>2</sup> )	Approx. Stranding No. of wires x mm	Insulation Thickness (mm)	Thickness of Inner Sheath (mm)	Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)
<b>OVERALL SCREEN</b>						
TCGEL01/2/1.5	1 pair 1.5	7/0.5	0.5	0.8	1.2	9.1
TCGEL02/2/1.5	2 pair 1.5	7/0.5	0.5	0.8	1.2	13.4
TCGEL04/2/1.5	4 pair 1.5	7/0.5	0.5	0.8	1.2	14.8
<b>INDIVIDUAL PAIR SCREEN</b>						
TCGEL02/2/1.5ES	2 pair 1.5	7/0.5	0.5	0.8	1.2	13.4
TCGEL04/2/1.5ES	4 pair 1.5	7/0.5	0.5	0.8	1.2	15.4

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.