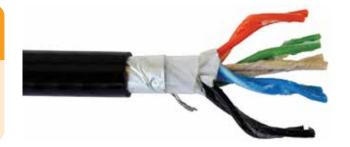
# TCFEEDER SERIES

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  $\Omega/kM$ .

Min. Insulation Resistance 20G  $\Omega/kM$  @ 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.

Code	No. of Cores x Size	Approx. Stranding	Insulation Thickness	Thickness of Inner Sheath	Thickness of Outer Sheath	Approx. Overall Diameter
	(mm²)	No. of wires x mm	(mm)	(mm)	(mm)	(mm)
OVERALL SCREEN						
TCGEL01/2/1.5	1 pair 1.5	7/0.5	0.5	8.0	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
INDIVIDUAL PAIR SCREEN						
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

