

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/Polyester tape screen applied with 7/0.25mm TC drain wire complete with gel compound.

TCGEL (Overall Screen) Aluminium/Polyester 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 C³ 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 (mm ²)	Approx. Stranding No. of wires x mm	Insulation Thickness (mm)	Thickness of Inner Sheath (mm)	Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)
OVERALL SCREEN						
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
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