

TRAFFIC, SOLAR, IRRIGATION & GARDEN LIGHTING CABLE

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TC 36 SERIES

High Performance Fixed Traffic Signal 36 Core Cable 0.6/1kV 90°C

APPLICATIONS:

Traffic Signals Underground multicore cable for the interconnection of traffic signal posts and control equipment.

PRODUCT FEATURES:

- UV stabilised
- ► Flame retardant
- Direct burial
- ▶ Heat, oil and chemical resistant (See Technical Section)



CONSTRUCTION:

Conductor Annealed plain copper stranded (Class 2). **Insulation** V-90 SPVC. **Sheath** PVC 5V-90.

CHARACTERISTICS:

Operating Temperature Range Fixed -5°C to 90°C.

Maximum Conductor Temperature 90°C (Current ratings are

based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage Uo/U 0.6/1kV.

Max AC Operating Voltage Uo 0.7kV.

Minimum Bending Radius Fixed 7.5 x cable diameter.

Sheath Colour Orange.

Relevant Standards AS/NZS 2276.1, AS/NZS 1125, AS/NZS 3808,

RoHS Compliant.



LAYUP CONSTRUCTION

Centre: 1 Core: Violet (ONE)

Second Layer: 6 cores: Violet (TWO to FOUR) + White (ONE to THREE)

Third Layer: 12 cores: White (FOUR to FIFTEEN)

Fourth Layer: 17 Cores: White (SIXTEEN to TWENTY SEVEN) + Orange + Red + Black +

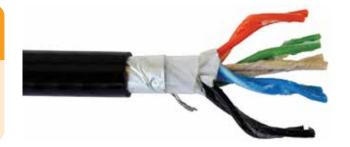
Green/Yellow + Grey

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm ²	Insulation Colour	Max D.C. Resistance of conductor at 20°C (ohm/kM)	Approx. Weight (Kg/Km)	Approx. Overall Diameter (mm)
TC36OR	3 x 2.5	7/0.67	Orange, Red, Black	7.41	1400	26.0
	1 x 4.0	7/0.85	Green, Yellow	4.61		
	32 x 1.5	7/0.50	Grey, Violet – No: 1 to 4 White – No: 1 to 27	13.60		



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 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	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	0.8	1.2	9.1	
TCGEL02/2/1.5	2 pair 1.5	7/0.5	0.5	8.0	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	



TC LOOP SERIES

High Performance Fixed
Instrumentation Traffic Loop Cable
250V 80°C



Traffic Signals Operating in the frequency range 20kHz to 200kH. Suitable for slots cut into the road surface.

PRODUCT FEATURES:

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

CONSTRUCTION:

Conductor Annealed plain copper stranded (Class 2). **Insulation** PP - Polypropylene.

CHARACTERISTICS:

Operating Temperature Range Fixed -10°C to 80°C.

Maximum Conductor Temperature 80°C.

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

Rated Voltage 250V.

Minimum Bending Radius 12 x cable diameter.

Sheath Colour Black.

Relevant Standards AS/NZS 2276.3, AS/NZS 1125, AS/NZS 1660, AS/NZS 1049 and *RoHS* Compliant.

Code	No. of Cores x Size	Approx. Stranding	Insulation Thickness	Max D.C. Resistance of conductor at 20°C	Frequency Range	Approx. Overall Diameter
	(mm²)	No. of wires x mm	(mm)	Ω/km	(kHz)	(mm)
TC001.5BK	1 x 1.5	7/0.5	0.8	13.8	20 to 200	3.5



SOLAR SERIES

Standard Performance Solar Cable 1.0/1.5kV DC 120°C



APPLICATIONS:

Solar Suitable for cabling between interconnected solar modules or DC/AC inverter (photovoltaic power supply systems).

PRODUCT FEATURES:

- ► Tinned fine stranded copper conductor
- ▶ UV resistant
- ► Environmentally friendly
- ► Flame retardant
- ► Heat, oil and chemical resistant

CONSTRUCTION:

Conductor Annealed tinned copper stranded Class 5 for flexibility. **Insulation** EBXL 120°C compound.

Sheath EBXL 120°C compound.

CHARACTERISTICS:

Operating Temperature Range -40°C to 90°C.

Maximum Conductor Temperature 120°C.

Rated Voltage Uo/U 1.0/1.5kV DC Voltage.

Minimum Bending Radius Fixed 4 x cable diameter /

Flexing 6 x cable diameter.

Sheath Colour Black.

Standard Core Colours Black, Red.

Relative Standards AS/NZS 5033:2021, IEC 62930:2017,

RoHS Compliant and **C** € Certified.

Code	No. of Cores x Size	Approx. Stranding			Approx. Weight
	(mm²)	No. of wires x mm	(mm)	60°C ambient temperature (free air)	(Kg/Km)
SOLAR2/4.0	2 x 4.0	52 / 0.30	5.60 x 11.50	55	120
SOLAR2/6.0	2 x 6.0	84 / 0.30	6.20 x 12.50	70	156



ICLV SERIES

FIRSTFLO Standard Performance Irrigation Cable 25VAC/60VDC 75°C



Control Used to control the valves in residential and commercial irrigation systems including golf courses and fruit orchard systems. **Harsh Environments** Designed for applications where harsh conditions may be encountered and are resistant to ground chemicals.

PRODUCT FEATURES:

- UV stabilised
- ▶ Water and moisture resistant
- ► High density polypropylene
- ▶ Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

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

Sheath SPVC V-75.

See over for full product table >



CHARACTERISTICS:

Operating Temperature Range Fixed -15°C to 75°C.

Maximum Conductor Temperature 80°C.

Rated Voltage 25VAC / 60VDC.

Standard Core Colours

Single Core

0.5mm² - Black, Blue, Brown, Green, Orange, Red, White, Yellow.

0.75mm² - 1.5mm² - Black, Blue, Red.

2.5mm² - 4.0mm² - Black, Red

(other colours available on request).

Multi Core

2 Core - Black, Red.

3 Core - Black, Red, White.

4 Core - Black, Red, White, Blue.

5 Core - Black, Red, White, Blue, Green.

7 Core - Black, Red, White, Blue, Green, Brown, Yellow.

9 Core - Black, Red, White, Blue, Green, Brown, Yellow, Pink, Grey.

13 Core - Black, Red, White, Blue, Green, Brown, Yellow, Pink, Grey, Violet, Beige, Light Green, Orange.

Multi Core Sheath Colour Blue (Other colours available on request).

Relevant Standards AS/NZS 3808, IEC 60332.1,

RoHS Compliant.



ICLV SERIES continued

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter	Nominal Amps Enclosed protected from sun	Max D.C. Conductor Resistance @ 20°C	Approx. Weight
	(mm²)	No. of wires x mm ²		In Duct or Cabinet	Ω/km	(kg/km)
CLV01/0.5	1 x 0.5	7 x 0.30	1.5	4	38.4	6
CLV01/0.75	1 x 0.75	7 x 0.37	2.1	7	25.3	8
ICLV01/1.0	1 x 1.0	7 x 0.40	2.3	10	21.2	15
CLV01/1.5	1 x 1.5	7 x 0.50	2.7	16	13.6	20
CLV01/2.5	1 x 2.5	7 x 0.67	3.2	23	7.41	28
CLV01/4.0	1 x 4.0	7 x 0.85	3.8	30	4.61	35
CLV02/0.5	2 x 0.5	7 x 0.30	4.2	4	38.4	24
CLV02/1.0	2 x 1.0	7 x 0.40	5.2	10	21.1	35.0
CLV02/1.5	2 x 1.5	7 x 0.50	5.9	16	13.6	40.0
CLV02/2.5	2 x 2.5	7 x 0.67	7.1	23	7.41	80.00
CLV03/0.5	3 x 0.5	7 x 0.30	4.5	4	38.4	33
CLV03/1.0	3 x 1.0	7 x 0.40	5.6	10	21.2	40.0
CLV03/1.5	3 x 1.5	7 x 0.50	6.2	16	13.6	70.0
CLV03/2.5	3 x 2.5	7 x 0.67	7.3	23	7.41	125.00
CLV05/0.5	5 x 0.5	7 x 0.30	5.5	4	38.4	40.0
CLV05/1.0	5 x 1.0	7 x 0.40	6.7	10	21.2	90.0
CLV05/1.5	5 x 1.5	7 x 0.50	7.7	16	13.6	120.0
CLV05/2.5	5 x 2.5	7 x 0.67	9.0	23	7.41	165.00
CLV07/0.5	7 x 0.5	7 x 0.30	6.1	4	38.4	50.0
CLV07/1.0	7 x 1.0	7 x 0.40	7.3	10	21.2	110.0
CLV07/1.5	7 x 1.5	7 x 0.50	8.6	16	13.6	160.0
CLV07/2.5	7 x 2.5	7 x 0.67	10.1	23	7.41	280.00
CLV09/0.5	9 x 0.5	7 x 0.30	6.8	4	38.4	56.0
CLV09/1.0	9 x 1.0	7 x 0.40	8.8	10	21.2	132.0
CLV09/1.5	9 x 1.5	7 x 0.50	9.9	16	13.6	175.0
CLV09/2.5	9 x 2.5	7 x 0.67	11.9	23	7.41	350.00
CLV13/0.5	13 x 0.5	7 x 0.30	8.5	4	38.4	120.0
CLV13/1.0	13 x 1.0	7 x 0.40	10.4	10	21.2	140.0
CLV13/1.5	13 x 1.5	7 x 0.50	11.8	16	13.6	243.0
CLV13/2.5	13 x 2.5	7 x 0.67	14.2	23	7.41	410.00

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GLT SERIES

High Performance Flexible Twin Garden Lighting Cable ELV 90°C





APPLICATIONS:

Lighting Used for festoon and garden lighting where a flexible water resistant PVC cable is required.

PRODUCT FEATURES:

- ▶ Raised rib on one core for polarity identification +/-
- ► Tinned fine stranded copper conductor
- UV stabilised
- ▶ Water resistant
- ► Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

Conductor Annealed tinned copper stranded high flexibility **Insulation** Special SPVC V-90HT.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 90°C **Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage 50 VAC / 120 VDC ELV (Not for mains connection) **Minimum Bending Radius** Fixed 10 x cable diameter / Flexing 15 x cable diameter.

Insulation Colour Black. (Raised rib on one core for polarity identification +/-)

Relevant Standards AS/NZS 1125, AS/NZS 3808, IEC 60332-1, *ROHS* Compliant.

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter	Approx. Weight	Max D.C Conductor Resistance @20°C Ω/km	1 Phase Volt Drop @50Hz / MAX. Conductor Temp:
	(mm²)	No. of wires x mm	(mm)	(Kg/Km)		(Mv/Am) 75°C
GLT02/1.0	2 x 1.0	32/0.20	2.6h x 5.7w	38	20	47.5
GLT02/1.5	2 x 1.5	30/0.25	4.0h x 8.3w	64	13.7	32.3
GLT02/2.5	2 x 2.5	50/0.25	4.3h x 9.0w	90	8.21	19.4
GLT02/4.0	2 x 4.0	127/0.20	4.7h x 9.5w	124	5.09	12.0
GLT02/6.0	2 x 6.0	192/0.20	5.5h X 11.5w	160	3.39	7.25

