



# CW1308 Internal Telecom Cable



Eland Product Group: A8T

## APPLICATION

Cables primarily designed for the interconnection of telephone equipment which is installed indoors. In addition these cables may be used for the interconnection of other communication and control equipment or low level signalling applications.

## CHARACTERISTICS

**Temperature Rating**  
0°C to +70°C

**Minimum Bending Radius**  
8 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 1 solid copper

**Insulation**  
PVC (Polyvinyl Chloride)

**Separator**  
PET (Polyethylene Terephthalate)

**Sheath**  
PVC (Polyvinyl Chloride)

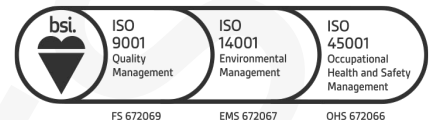
**Sheath Colour**  
○ White

## STANDARDS

CW 1308, IEC/EN 60228  
Flame Retardant according to IEC/EN 60332-1-2

## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



## REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL DIAMETER OF CONDUCTORS mm	CONSTRUCTION	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8TCW13080205RL	2	0.5	1 x 2PR	3.5	18
A8TCW13080305RL	3	0.5	1 x 3PR	4.8	27
A8TCW13080405RL	4	0.5	1 x 4PR	5.8	32
A8TCW13080605RL	6	0.5	1 x 6PR	6.8	46
A8TCW13080805RL	8	0.5	1 x 8PR	7.6	58
A8TCW13081005LS	10	0.5 + E	1 x 10PR + E	8.8	89
A8TCW13081205LS	12	0.5	1 x 12PR	9.1	85
A8TCW13081505LS	15	0.5	1 x 15PR	9.8	102
A8TCW13081605LS	16	0.5	1 x 16PR	7.9	101
A8TCW13082005LS	20	0.5 + E	1 x 20PR + E	12	150
A8TCW13082505LS	25	0.5 + E	1 x 25PR + E	11.4	160
A8TCW13083005LS	30	0.5 + E	3 x 10PR + E	11.4	205
A8TCW13083205LS	32	0.5	4 x 8PR	12.4	200
A8TCW13084005LS	40	0.5 + E	4 x 10PR + E	15	270
A8TCW1308505LS	50	0.5 + E	5 x 10PR + E	17	330
A8TCW13086405LS	64	0.5 + E	1 x 16PR + 6 x 8PR + E	14.8	386
A8TCW13088005LS	80	0.5 + E	1 x 20PR + 6 x 10PR + E	22.5	520
A8TCW1308100LSF	100	0.5 + E	1 x 20PR + 8 x 10PR + E	27	660
A8TCW1308160LSF	160	0.5 + E	4 x 10PR + 6 x 20PR + E	30	1010
A8TCW1308320LSF	320	0.5 + E	1 x 20PR + 5 x 20PR + 10 x 20PR + E	39.5	1920

E - Includes additional 1.38mm diameter insulated earth wire coloured white

## ELECTRICAL CHARACTERISTICS

NOMINAL DIAMETER OF CONDUCTORS mm	MINIMUM INSULATION RESISTANCE AT 20°C Mohms/km	MAXIMUM CAPACITANCE UNBALANCE pF/km
0.5	50	500

For 20 pairs and above the maximum mutual capacitance shall increase by 3nF/km



## PAIR IDENTIFICATION

CABLING ELEMENT	COLOUR CODE TABLE CW1308				
	COLOUR OF INSULATION		CABLING ELEMENT	COLOUR OF INSULATION	
	A - Wire	B - Wire		A - Wire	B - Wire
1	White/Blue	Blue/White	16	Yellow/Blue	Blue/Yellow
2	White/Orange	Orange/White	17	Yellow/Orange	Orange/Yellow
3	White/Green	Green/White	18	Yellow/Green	Green/Yellow
4	White/Brown	Brown/White	19	Yellow/Brown	Brown/Yellow
5	White/Grey	Grey/White	20	Yellow/Grey	Grey/Yellow
6	Red/Blue	Blue/Red	21	Violet/Blue	Blue/Violet
7	Red/Orange	Orange/Red	22	Violet/Orange	Orange/Violet
8	Red/Green	Green/Red	23	Violet/Green	Green/Violet
9	Red/Brown	Brown/Red	24	Violet/Brown	Brown/Violet
10	Red/Grey	Grey/Red	25	Violet/Grey	Grey/Violet
11	Black/Blue	Blue/Black	26	Pink/Blue	Blue/Pink
12	Black/Orange	Orange/Black	27	Pink/Orange	Orange/Pink
13	Black/Green	Green/Black	28	Pink/Green	Green/Pink
14	Black/Brown	Brown/Black	29	Pink/Brown	Brown/Pink
15	Black/Grey	Grey/Black	30	Pink/Grey	Grey/Pink

The above table is in accordance with BT specification CW1308.

### MAKE-UP AND UNIT IDENTIFICATION COLOURS 16 AND 20 PAIR UNITS

Pair Size	8/10 PAIR	16/20 PAIR	32/40 PAIR	50 PAIR	64/80 PAIR	100 PAIR	128/160 PAIR	256/320 PAIR
NO. OF UNITS								
Centre	1/2	1	4 x 1/2*	5 x 1/2	1	1	4 x 1/2	1
1st Layer	-	-	-	-	6 x 1/2	8 x 1/2	6	5
2nd Layer	-	-	-	-	-	-	-	10
COLOURS OF UNIT LAPPINGS								
UNIT NO.	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
2	-	-	Green	Natural	Orange	Orange	Green	Orange
3	-	-	-	Green	Natural	Natural	Orange	Natural
4	-	-	-	-	Green	Natural	Natural	Natural
5	-	-	-	-	-	Green	Natural	Natural
6	-	-	-	-	-	-	Natural	Green
7	-	-	-	-	-	-	Natural	Orange
8	-	-	-	-	-	-	Green	Natural
9 to 15	-	-	-	-	-	-	-	Natural
16	-	-	-	-	-	-	-	Green

\*1/2 refers to Sub-units of 8 or 10 pairs

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.