

# Cable Connectors

## Un-insulated Copper Tube Terminals



### Application

#### 1-800mm<sup>2</sup> Un-insulated Copper Tube Terminals Splices (Prefix BT\_)

> One range of connectors, suitable for voltages up to 6.6kV for use on copper and tin plated copper conductors with stranded or flexible annealed construction.

### Description

> The BT range of connectors are manufactured from high purity oxygen free copper which are then electro tin plated to prevent corrosion; this makes them suitable for operating temperatures up to 150°C.

> Each terminal includes a sight hole for visual inspection of the conductor inserted.

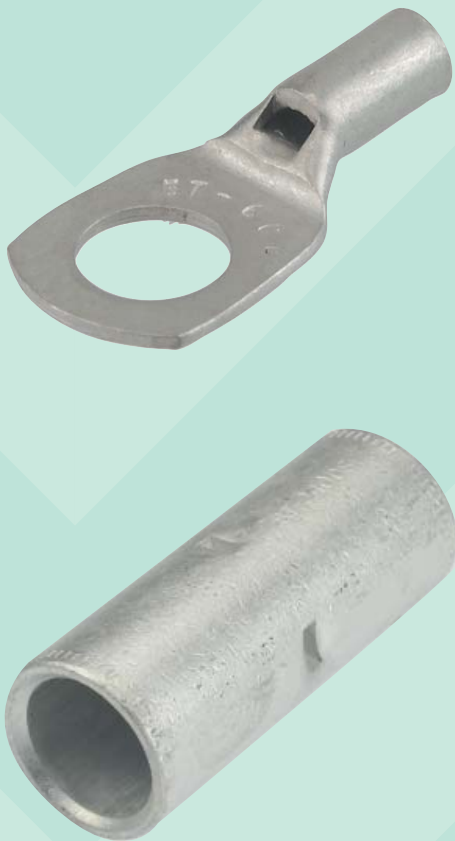
> The terminals can be installed with indent or hexagonal compression systems up to 400mm<sup>2</sup> on stranded conductor. Above 400mm<sup>2</sup> or on flexible conductors indent compression is required.

> Each die set imprints the size of stranded conductor onto the connector to show that the correct tooling has been applied.

> A wide selection of single stud holes and straight splices are provided and other configurations; two hole and four hole variants are available on request. All connectors are installed with a single crimp except where otherwise stated.

> Flexible conductors normally have a larger overall diameter than their stranded equivalents – meaning that flexible conductors often won't fit into the correct size tube terminals. In this case we recommend using the next size up in the range combined with the Indent crimp dies.

> Tube terminals and splices and the associated Crimp Die reference tables can be seen on the following pages.



### Approvals

Tested and approved to :

> BS EN 61238 (2003) class A (including short circuit)

> BS 4579 Part 1

> BS 7609 (2009) Code of practice for installation un-insulated connectors

# Uninsulated Tube Terminals

## Cable size and Connector Details - Tube Terminals

Conductor Size mm <sup>2</sup>	Stud Size (mm)	Catalogue Number	C (mm)	L (mm)	Z (mm)	N (mm)
1	3.5	BT1C35	6.1	16.2	6.1	3.8
1.5-2.5	4	BT2C4	8.0	19.5	6.1	4.3
1.5-2.5	6	BT2C6	8.0	19.5	6.1	4.3
1.5-2.5	8	BT2C8	11.1	24.0	8.1	7.1
4.0-6.0	3.5/4	BT6C354	7.8	25.4	6.1	3.7
4.0-6.0	5	BT6C5	9.9	25.4	5.0	4.5
4.0-6.0	6	BT6C6	12.3	26.9	6.3	5.7
4.0-6.0	8	BT6C8	13.9	31.3	8.5	7.7
4.0-6.0	10	BT6C10	14.7	35.3	10.5	9.5
10	6	BT10C6	11.6	27.4	6.3	5.7
10	8	BT10C8	14.8	34.4	8.5	7.7
10	10	BT10C10	14.8	38.4	10.5	9.5
16	6	BT16C6	13.2	32.0	6.3	5.7
16	8	BT16C8	15.6	36.4	8.5	7.7
16	10	BT16C10	15.6	40.4	10.5	9.5
16	12	BT16C12	21.6	43.4	12.0	10.8
25	6	BT25C6	14.4	32.6	6.3	5.7
25	8	BT25C8	16.4	37.0	8.5	7.7
25	10	BT25C10	16.4	41.0	10.5	9.5
25	12	BT25C12	19.7	44.0	12.0	10.8
35	10	BT35C10	17.6	44.6	10.5	9.5
35	12	BT35C12	20.0	47.6	12.0	10.8
50	6	BT50C6	20.0	37.4	6.3	5.7
50	8	BT50C8	20.0	41.8	8.5	7.7
50	10	BT50C10	20.0	45.8	10.5	9.5
50	12	BT50C12	22.3	48.8	12.0	10.8
70	8	BT70C8	24.3	49.9	8.5	7.7
70	10	BT70C10	24.3	53.9	10.5	9.5
70	12	BT70C12	24.3	56.9	12.0	10.8
95	8	BT95C8	26.8	51.8	8.5	7.7
95	10	BT95C10	26.8	55.8	10.5	9.5
95	12	BT95C12	26.8	58.8	12.0	10.8
120	10	BT120C10	29.5	56.7	10.5	9.5
120	12	BT120C12	29.5	59.7	12.0	10.8
120	16	BT120C16	29.5	65.7	15.0	13.5
150	10	BT150C10	33.0	65.2	10.5	9.5
150	12	BT150C12	33.0	68.2	12.0	10.8
150	16	BT150C16	33.0	74.2	15.0	13.5
185	10	BT185C10	36.1	72.7	10.5	9.5
185	12	BT185C12	36.1	75.7	12.0	10.8
185	16	BT185C16	36.1	81.7	15.0	13.5
240	10	BT240C10	41.9	80.5	10.5	9.5
240	12	BT240C12	41.9	83.5	12.0	10.8
240	16	BT240C16	41.9	89.5	15.0	13.5
240	20	BT240C20	41.9	96.5	18.5	16.7
300	12	BT300C12	46.0	88.0	12.0	10.8
300	16	BT300C16	46.0	94.0	15.0	13.5
300	20	BT300C20	46.0	101.0	18.5	16.7
400	16	BT400C16	51.6	99.0	15.0	13.5
400	20	BT400C20	51.6	106.0	18.5	16.7
500	16	BT500C16	56.2	101.0	15.0	13.5
630	16	BT630C16	65.0	108.5	15.0	13.5
630	20	BT630C20	65.0	115.5	18.5	16.7
800	20	BT800C20	70.0	127.4	18.5	16.7

