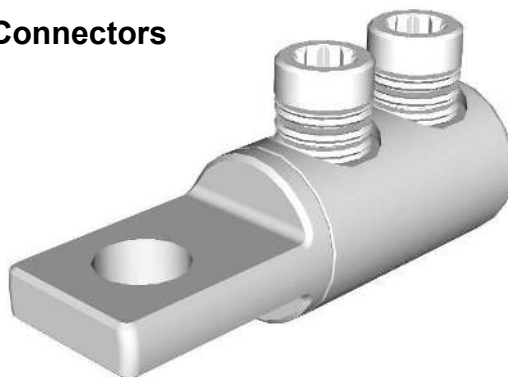


Mechanical termination lug with moisture / contaminant block for medium voltage applications

## MECHANICAL CONNECTORS



### HVTM1/.... Aluminium Connectors



**Principle Application:** Termination of stranded and solid 3 & 4 cored shaped conductors.

**Range:**

| Connector Reference | Core C.S.A. (mm²) |     |       |     | Stud Size |
|---------------------|-------------------|-----|-------|-----|-----------|
|                     | Stranded          |     | Solid |     |           |
|                     | Min               | Max | Min   | Max |           |
| HVTM 1/1-12         | 16                | 120 | 16    | 95  | M12       |
| HVTM 1/1-16         | 16                | 120 | 16    | 95  | M16       |
| HVTM 1/2-12         | 16                | 185 | 16    | 150 | M12       |
| HVTM 1/2-16         | 16                | 185 | 16    | 150 | M16       |
| HVTM 1/3-12         | 70                | 300 | 70    | 240 | M12       |
| HVTM 1/3-16         | 70                | 300 | 70    | 240 | M16       |

The 'HVTM' range of centre palm mechanical lugs incorporate an integral moisture block and utilises the patented "universal" range taking shear bolts. The connector comes complete with core stripping guides.

Suitable for all cable voltages up to and including 11000 volts.

**Secondary Application:** Termination of stranded/solid circular cored conductors.

**Range:**

| Connector<br>Reference | Core C.S.A. (mm <sup>2</sup> ) |     |       |     | Stud<br>Size |
|------------------------|--------------------------------|-----|-------|-----|--------------|
|                        | Stranded                       |     | Solid |     |              |
|                        | Min                            | Max | Min   | Max |              |
| HVTM 1/0-12            | -                              | -   | -     | 95  | M12          |
| HVTM 1/1-12            | 16                             | 120 | 16    | 185 | M12          |
| HVTM 1/1-16            | 16                             | 120 | 16    | 185 | M16          |
| HVTM 1/2-12            | 16                             | 185 | 16    | 300 | M12          |
| HVTM 1/2-16            | 16                             | 185 | 16    | 300 | M16          |
| HVTM 1/3-12            | 70                             | 400 | 70    | 400 | M12          |
| HVTM 1/3-16            | 70                             | 400 | 70    | 400 | M16          |

Note: For jointing other core configurations/sizes please contact Sicame Technical Dept



**THORNE &  
DERRICK  
INTERNATIONAL**

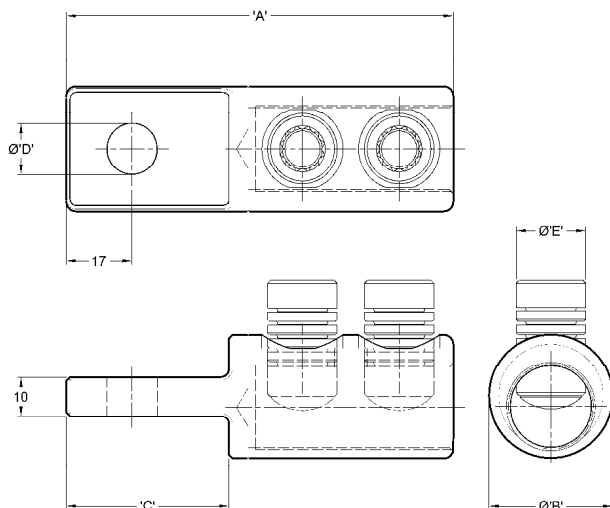
**Thorne & Derrick**  
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## MECHANICAL CONNECTORS

### HVTM1/.... Aluminium Connectors

#### Physical Dimensions



| Connector Reference | Dimensions (mm) |      |     |      |      |
|---------------------|-----------------|------|-----|------|------|
|                     | 'A'             | Ø'B' | 'C' | Ø'D' | Ø'E' |
| HVTM 1/0-12         | 87              | 22   | 42  | 13   | M10  |
| HVTM 1/1-12         | 98              | 28.5 | 42  | 13   | M16  |
| HVTM 1/1-16         | 98              | 28.5 | 42  | 17   | M16  |
| HVTM 1/2-12         | 100             | 32   | 42  | 13   | M18  |
| HVTM 1/2-16         | 100             | 32   | 42  | 17   | M18  |
| HVTM 1/3-12         | 107             | 37.5 | 42  | 13   | M18  |
| HVTM 1/3-16         | 107             | 37.5 | 42  | 17   | M18  |

Note: HVTM 1/0-12 uses 13mm A/F hexagon head shear screws.

#### Material:

Aluminium Alloy

#### Test Specification:

Engineering Recommendation C79 / IEC 1238-1. Test Report No. TTR144, TTR145

#### Fitting instructions:

1. Strip insulation from each core equal to the depth of the bore guide + 5mm.
2. Thoroughly abrade exposed conductor cores. (See note).
3. Align the cores within the yoke.
4. Tighten the universal bolts consecutively one turn at a time until all the heads have sheared.

The appropriate tooling is to be used at all times, typical examples shown below.



'JTS/7I' Universal Screw Ratchet Tool  
(Insulated)



'JTS/16' Universal Screw Socket  
(17mm A/F)

Note: When jointing copper conductor, wrap the supplied brass gauze around the core prior to installation.

\* Conductor cores 10mm<sup>2</sup> and below should be doubled to achieve the necessary cross sectional area.

Important: Please note that when using the HVTM terminations in joints normally rated in excess of 3.3KV, it is essential that the Jointing System Supplier's instructions for stress relieving and re-insulation techniques are strictly adhered to.