



**CABLE TERMINAL ENDS  
CONNECTORS  
CRIMPING TOOLS**

## LIST OF TEST REPORTS & CERTIFICATIONS

| CABLE LUGS & CONNECTORS |                          |                                               |                                                                   |                                       |
|-------------------------|--------------------------|-----------------------------------------------|-------------------------------------------------------------------|---------------------------------------|
| S. NO                   | PRODUCT                  | SIZE / PRODUCT CODE                           | STANDARD / TEST                                                   | CERTIFYING BODY                       |
| 1                       | BIMETALLIC LUGS          | 500 mm sq. / HSBT - 500                       | AS/NZS 4325:1:1995<br>(RECONFIRMED 2016) &<br>IEC 61238-1 : 2003  | SIRIM, QAS INTERNATIONAL,<br>MALAYSIA |
| 2                       | COPPER LUGS              | 120 mm sq. / HAHT - 120                       | AS/NZS 4325:1:1995<br>(RECONFIRMED 2016) &<br>IEC 61238-1 : 2003  | SIRIM, QAS INTERNATIONAL,<br>MALAYSIA |
| 3                       | ALUMINIUM LUGS           | 185 mm sq.                                    | IEC 61238-1 : 2003                                                | SIRIM, QAS INTERNATIONAL,<br>MALAYSIA |
| 4                       | COPPER LUGS              | 150 mm sq. / HAHT 150-12                      | MECHANICAL TEST<br>AS PER AS/NZS 4325:1:1995 /<br>IEC 1238 : 1993 | CPRI, BANGALORE, INDIA                |
| 5                       | ALUMINIUM LUGS           | 185 mm sq.                                    | IEC 61238-1 : 2003<br>(HEAT CYCLE TEST)                           | CPRI, BANGALORE, INDIA                |
| 6                       | ALUMINIUM LUGS           | 185 mm sq.                                    | IEC 61238-1 : 2003<br>(SHORT CIRCUIT TEST)                        | CPRI, BANGALORE, INDIA                |
| 7                       | ALUMINIUM & COPPER LUGS  | COPPER - 35 mm sq. &<br>300 mm sq.            | MECHANICAL TEST<br>AS PER IEC 61238-1 : 2003                      | CPRI, BANGALORE, INDIA                |
|                         |                          | ALUMINUM - 300 mm sq.                         |                                                                   |                                       |
| 8                       | ALUMINIUM & COPPER LUGS  | COPPER - 150 mm sq. &<br>35 mm sq.            | MECHANICAL TEST<br>(AS PER IEC 61238 : 2003)                      | CPRI, BANGALORE, INDIA                |
|                         |                          | ALUMINUM - 120 mm sq. &<br>50 mm sq.          |                                                                   |                                       |
| 9                       | COPPER CONNECTORS & LUGS | AS PER UL CERTIFICATE NO.<br>20161017-E307140 | UL 486A-486B &<br>CSA C22.2 NO. 65-13                             | UL                                    |
| 10                      | ALUMINIUM & COPPER LUGS  | AL. CONNECTOR : HAXL-35                       | CENELEC HD 629 . 1 S1                                             | KEMA                                  |
|                         |                          | COPPER LUG / TERMINAL HS-24                   |                                                                   |                                       |
| 11                      | COPPER LUGS              | HT 150-16                                     | SABS IEC 1238 : 1993                                              | SABS, SOUTH AFRICA                    |
| 12                      | ALUMINIUM & COPPER LUGS  | BIMETALLIC CONNECTOR                          | ELECTRICAL &<br>MECHANICAL TEST                                   | PSB CORPORATION, SINGAPORE            |

## DEFINITIONS

- **CABLE TERMINAL END** : As per international specifications a Cable Terminal End is a connecting device with a barrel accommodating respective conductor size of electrical cable & which has fixing arrangements of termination by means of a bolt fixing or pin insertions in tunnel type terminal blocks.
- **IN-LINE CONNECTOR** : This is a device accommodating two electrical conductors to form a straight joint.

## PRODUCT USAGE

### A) CABLE TERMINAL ENDS, INLINE CONNECTORS / FERRULES & REDUCERS

HEX offers a vast range of Cable Terminal Ends, Inline Connectors / Ferrules & Reducers suitable for low, medium & high voltage applications. Manufactured from high strength, high conductivity electrolytic copper and aluminium alloy materials like tubes, rods or sections of other profiles, they conform to the relevant national (IS) or various international standards like, BS, IEC, UL, DIN, etc. Entry to the terminal is either chamfered or bell-mouthed for faster & easier entry of the conductor. They can be supplied with or without tin plating.

- 1) **CABLE TERMINAL ENDS** : They are basically used to terminate power cables to the electrical equipment or for grounding applications.
- 2) **INLINE CONNECTORS / FERRULES** : Whenever two cables have to be joined together in a straight line, Inline Connectors or Ferrules are used to ensure a safe, straight electrical connection.
- 3) **REDUCER PIN TYPE TERMINAL ENDS** : Made from round rods, these terminals are generally used for fixing cables in tunnel type blocks, cut-outs, meters, etc.

### B) COPPER SHEET CABLE TERMINAL ENDS

Our entire range of Ring, Fork/Spade & Pin Type Tinned Copper Cable Terminal Ends (Insulated & Non-Insulated) is manufactured from high conductivity copper and they are electro-tinned for corrosion resistance. These terminals are available in different sizes, to serve the different joining techniques such as Crimping, Soldering and Welding. They are generally used for terminating low voltage cables.

Insulation plays a crucial role in the life and conductivity of an electrical connection. HEX PVC insulated terminals are cost effective as compared to nylon & heat shrink sleeve insulated terminals. The insulation support helps prevent wire damage in bending applications.

- 1) **RING TYPE TERMINAL ENDS** : Generally used for termination of flexible cables to Control Panels, Meters & other such equipment these terminals ensure a secure connection in high vibration applications.
- 2) **FORK/SPADE TYPE TERMINAL ENDS** : A Fork/Spade terminal is easy to use, and is a fast process for connecting electrical wires because the screw or bolt can be left partially screwed in when a terminal is attached or removed. This fact alone can save time in the long run especially on larger jobs.
- 3) **PIN TYPE TERMINAL ENDS** : These terminals are used for terminating cables in terminal blocks with tunnels. HEX offers them in 3 types, round, regular & flat.

## FIELD OF APPLICATIONS

- Electricity Boards : Power Generation, Transmission, Distribution, etc.
- Electrical Industries : Control Panels, Switchgear, Transformers, Circuit Breakers, etc.
- Various Industries : Refineries, Telecom, Chemical, Steel, Mining, Cement, Automobile, Shipping, Aeronautics, Railways & many more.

HEX has vast experience, technical know-how & substantial capability to provide solutions to all your customized needs of cable lugs & connectors.

## **SPECIFICATIONS:**

'HEX' range of cable terminals ends have been designed to meet international standards. This ensures compliance with the demands of a majority of end users like electrical authorities, contractors, switch board panel builders, electrical wholesale outlets and traders.

Copper specification : Minimum 97% IACS to IS 191 standard

Copper finish : Electro Tinned to IS 1359 standard

The HEX range of terminals meets above specifications and also refer to the following standard:

- Compression joints for copper connections as per BS 4579 part I 1970 (now BS EN 61238:1:2003)

We also manufacture following terminals as per DIN standards:

- Copper sealing ferrules Eq to DIN 46228
- Copper Tubular terminals Eq to DIN 46235
- Copper Connectors Eq to DIN 46267

## **TEST FACILITIES:**

Our engineers utilize extensive in-house testing facilities to ensure the integrity and performance of every product, that rolls out of our plant.

## **TOOL ROOM AND CALIBRATION:**

We have in-house facilities for making tools & dies for manufacturing our products. Our fully trained technicians continuously monitor and maintain the tooling and all the equipments are calibrated at regular intervals by registered bodies.

## **QUALITY:**

HEX has set strict standards for itself, which it maintains without any compromises. Our focus is on the following areas:

- Knowing the customer's needs
- Faultless planning
- Certified performance
- Clear instruction manual
- Timely delivery
- Efficient after sales service
- Feedback & control
- Value for money

## **STOCK AVAILABILITY:**

Our modern warehousing facilities and storage ensure availability of the complete range of products and its prompt dispatch. Strategically positioned, all the complexes are technologically equipped to streamline order processing and delivery.



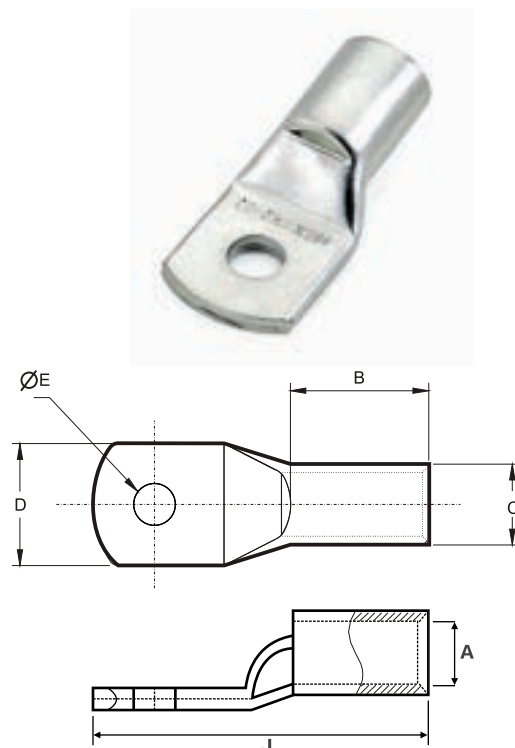
# CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS

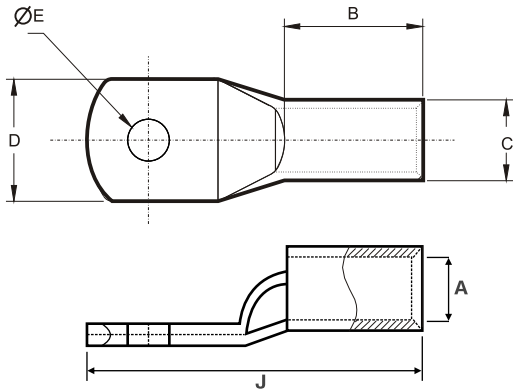


**MATERIAL : E - COPPER • FINISH : ELECTRO TINNED**

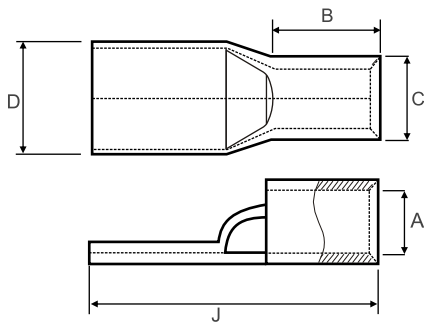
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm |      |      |      |      | Product<br>Code |
|--------------------------|----------------|------------------|------|------|------|------|-----------------|
|                          |                | A                | C    | D    | B    | J    |                 |
| 1.5                      | 4.2            | 1.8              | 3.7  | 8.0  | 6.0  | 17.0 | HT 1.5 - 4      |
|                          | 5.2            | 1.8              | 3.7  | 8.0  | 6.0  | 17.0 | HT 1.5 - 5      |
|                          | 6.5            | 1.8              | 3.7  | 10.0 | 6.0  | 18.0 | HT 1.5 - 6      |
|                          | 8.4            | 1.8              | 3.7  | 12.0 | 7.0  | 24.0 | HT 1.5 - 8      |
| 2.5                      | 4.2            | 2.4              | 4.0  | 8.0  | 8.0  | 19.0 | HT 2.5 - 4      |
|                          | 5.2            | 2.4              | 4.0  | 8.0  | 8.0  | 19.0 | HT 2.5 - 5      |
|                          | 6.5            | 2.4              | 4.0  | 10.0 | 8.0  | 21.0 | HT 2.5 - 6      |
|                          | 8.4            | 2.4              | 4.0  | 12.0 | 8.0  | 26.0 | HT 2.5 - 8      |
| 4                        | 4.2            | 3.1              | 4.8  | 10.0 | 8.0  | 21.0 | HT 4 - 4        |
|                          | 5.2            | 3.1              | 4.8  | 10.0 | 8.0  | 21.0 | HT 4 - 5        |
|                          | 6.5            | 3.1              | 4.8  | 10.0 | 8.0  | 21.0 | HT 4 - 6        |
|                          | 8.4            | 3.1              | 4.8  | 12.0 | 8.0  | 26.0 | HT 4 - 8        |
|                          | 10.5           | 3.1              | 4.8  | 15.0 | 9.0  | 30.0 | HT 4 - 10       |
| 6                        | 4.2            | 3.8              | 5.5  | 10.0 | 10.0 | 24.0 | HT 6 - 4        |
|                          | 5.2            | 3.8              | 5.5  | 10.0 | 10.0 | 24.0 | HT 6 - 5        |
|                          | 6.5            | 3.8              | 5.5  | 10.0 | 10.0 | 24.0 | HT 6 - 6        |
|                          | 8.4            | 3.8              | 5.5  | 12.0 | 10.0 | 28.0 | HT 6 - 8        |
|                          | 10.5           | 3.8              | 5.5  | 15.0 | 10.0 | 32.0 | HT 6 - 10       |
| 10                       | 5.2            | 4.5              | 6.2  | 11.0 | 10.0 | 26.0 | HT 10 - 5       |
|                          | 6.5            | 4.5              | 6.2  | 11.0 | 10.0 | 26.0 | HT 10 - 6       |
|                          | 8.4            | 4.5              | 6.2  | 12.0 | 10.0 | 28.0 | HT 10 - 8       |
|                          | 10.5           | 4.5              | 6.8  | 15.0 | 11.0 | 33.0 | HT 10 - 10      |
|                          | 13.0           | 4.5              | 6.8  | 18.0 | 11.0 | 36.0 | HT 10 - 12      |
| 16                       | 5.2            | 5.4              | 7.1  | 12.0 | 12.0 | 30.0 | HT 16 - 5       |
|                          | 6.5            | 5.4              | 7.1  | 12.0 | 12.0 | 30.0 | HT 16 - 6       |
|                          | 8.4            | 5.4              | 7.1  | 12.0 | 12.0 | 30.0 | HT 16 - 8       |
|                          | 10.5           | 5.5              | 7.6  | 15.0 | 12.0 | 36.0 | HT 16 - 10      |
|                          | 13.0           | 5.5              | 7.6  | 17.0 | 12.0 | 39.0 | HT 16 - 12      |
|                          | 17.0           | 5.5              | 7.6  | 21.0 | 12.0 | 44.0 | HT 16 - 16      |
| 20                       | 8.4            | 6.0              | 7.7  | 12.0 | 12.0 | 32.0 | HT 20 - 8       |
| 25                       | 6.5            | 6.8              | 8.8  | 13.0 | 12.0 | 30.0 | HT 25 - 6       |
|                          | 8.4            | 6.8              | 8.8  | 13.0 | 12.0 | 30.0 | HT 25 - 8       |
|                          | 10.5           | 6.8              | 8.8  | 15.0 | 13.0 | 36.0 | HT 25 - 10      |
|                          | 13.0           | 6.8              | 9.2  | 17.0 | 15.0 | 41.0 | HT 25 - 12      |
|                          | 17.0           | 6.8              | 9.2  | 21.0 | 15.0 | 47.0 | HT 25 - 16      |
| 35                       | 6.5            | 8.2              | 10.6 | 15.3 | 13.5 | 37.0 | HT 35 - 6       |
|                          | 8.4            | 8.2              | 10.6 | 15.3 | 13.5 | 37.0 | HT 35 - 8       |
|                          | 10.5           | 8.2              | 10.6 | 15.3 | 13.5 | 37.0 | HT 35 - 10      |
|                          | 13.0           | 8.2              | 10.6 | 18.0 | 13.5 | 41.0 | HT 35 - 12      |
|                          | 17.0           | 8.2              | 10.6 | 22.0 | 13.5 | 50.0 | HT 35 - 16      |
| 50                       | 6.5            | 9.5              | 12.4 | 17.8 | 17.0 | 41.0 | HT 50 - 6       |
|                          | 8.4            | 9.5              | 12.4 | 17.8 | 17.0 | 41.0 | HT 50 - 8       |
|                          | 10.5           | 9.5              | 12.4 | 17.8 | 17.0 | 41.0 | HT 50 - 10      |
|                          | 13.0           | 9.5              | 12.4 | 20.0 | 17.0 | 45.0 | HT 50 - 12      |
|                          | 14.5           | 9.5              | 12.4 | 22.0 | 18.0 | 54.0 | HT 50 - 14      |
|                          | 17.0           | 9.5              | 12.4 | 22.0 | 18.0 | 54.0 | HT 50 - 16      |
|                          | 21.0           | 9.5              | 12.4 | 26.0 | 18.0 | 62.0 | HT 50 - 20      |
| 70                       | 8.4            | 11.3             | 14.6 | 21.0 | 18.5 | 47.0 | HT 70 - 8       |
|                          | 10.5           | 11.3             | 14.6 | 21.0 | 18.5 | 47.0 | HT 70 - 10      |

Tolerance on dimensions are as per UL FUS.





For 800 & 1000 mm<sup>2</sup>



| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm |      |      |      |       | Product<br>Code |
|--------------------------|----------------|------------------|------|------|------|-------|-----------------|
|                          |                | A                | C    | D    | B    | J     |                 |
| 70                       | 13.0           | 11.3             | 14.6 | 21.0 | 18.5 | 47.0  | HT 70 - 12      |
|                          | 14.5           | 11.3             | 14.6 | 22.0 | 18.5 | 55.0  | HT 70 - 14      |
|                          | 17.0           | 11.3             | 14.6 | 26.0 | 18.5 | 56.0  | HT 70 - 16      |
|                          | 21.0           | 11.3             | 14.6 | 28.0 | 18.5 | 63.0  | HT 70 - 20      |
| 95                       | 8.4            | 13.5             | 17.4 | 25.0 | 21.0 | 53.0  | HT 95 - 8       |
|                          | 10.5           | 13.5             | 17.4 | 25.0 | 21.0 | 53.0  | HT 95 - 10      |
|                          | 13.0           | 13.5             | 17.4 | 25.0 | 21.0 | 53.0  | HT 95 - 12      |
|                          | 14.5           | 13.5             | 17.4 | 25.0 | 22.0 | 58.0  | HT 95 - 14      |
|                          | 17.0           | 13.5             | 17.4 | 25.0 | 22.0 | 59.0  | HT 95 - 16      |
|                          | 21.0           | 13.5             | 17.4 | 28.0 | 22.0 | 63.0  | HT 95 - 20      |
| 120                      | 8.4            | 15.0             | 19.4 | 28.0 | 23.0 | 60.0  | HT 120 - 8      |
|                          | 10.5           | 15.0             | 19.4 | 28.0 | 23.0 | 60.0  | HT 120 - 10     |
|                          | 13.0           | 15.0             | 19.4 | 28.0 | 23.0 | 60.0  | HT 120 - 12     |
|                          | 14.5           | 15.0             | 19.4 | 28.0 | 23.0 | 60.0  | HT 120 - 14     |
|                          | 17.0           | 15.0             | 19.4 | 28.0 | 23.0 | 65.0  | HT 120 - 16     |
|                          | 21.0           | 15.0             | 19.4 | 28.0 | 23.0 | 65.0  | HT 120 - 20     |
| 150                      | 8.4            | 16.5             | 21.2 | 30.0 | 27.0 | 70.0  | HT 150 - 8      |
|                          | 10.5           | 16.5             | 21.2 | 30.0 | 27.0 | 70.0  | HT 150 - 10     |
|                          | 13.0           | 16.5             | 21.2 | 30.0 | 27.0 | 70.0  | HT 150 - 12     |
|                          | 14.7           | 16.5             | 21.2 | 30.0 | 27.0 | 70.0  | HT 150 - 14     |
|                          | 17.0           | 16.5             | 21.2 | 30.0 | 27.0 | 70.0  | HT 150 - 16     |
|                          | 21.0           | 16.5             | 21.2 | 30.0 | 27.0 | 70.0  | HT 150 - 20     |
| 185                      | 10.5           | 18.5             | 23.5 | 34.0 | 32.0 | 80.0  | HT 185 - 10     |
|                          | 13.0           | 18.5             | 23.5 | 34.0 | 32.0 | 80.0  | HT 185 - 12     |
|                          | 14.7           | 18.5             | 23.5 | 34.0 | 32.0 | 80.0  | HT 185 - 14     |
|                          | 17.0           | 18.5             | 23.5 | 34.0 | 32.0 | 80.0  | HT 185 - 16     |
|                          | 21.0           | 18.5             | 23.5 | 34.0 | 32.0 | 80.0  | HT 185 - 20     |
| 240                      | 10.5           | 21.0             | 26.5 | 38.0 | 39.0 | 94.0  | HT 240 - 10     |
|                          | 13.0           | 21.0             | 26.5 | 38.0 | 39.0 | 94.0  | HT 240 - 12     |
|                          | 14.7           | 21.0             | 26.5 | 38.0 | 39.0 | 94.0  | HT 240 - 14     |
|                          | 17.0           | 21.0             | 26.5 | 38.0 | 39.0 | 94.0  | HT 240 - 16     |
|                          | 21.0           | 21.0             | 26.5 | 38.0 | 39.0 | 94.0  | HT 240 - 20     |
|                          | BL             | 21.0             | 26.5 | 38.0 | 39.0 | 94.0  | HT 240 - BL     |
| 300                      | 10.5           | 23.5             | 30.0 | 43.0 | 42.0 | 102.0 | HT 300 - 10     |
|                          | 13.0           | 23.5             | 30.0 | 43.0 | 42.0 | 102.0 | HT 300 - 12     |
|                          | 14.7           | 23.5             | 30.0 | 43.0 | 42.0 | 102.0 | HT 300 - 14     |
|                          | 17.0           | 23.5             | 30.0 | 43.0 | 42.0 | 102.0 | HT 300 - 16     |
|                          | 21.0           | 23.5             | 30.0 | 43.0 | 42.0 | 102.0 | HT 300 - 20     |
|                          | BL             | 23.5             | 30.0 | 43.0 | 42.0 | 102.0 | HT 300 - BL     |
| 400                      | 13.0           | 28.5             | 36.5 | 52.5 | 45.0 | 112.0 | HT 400 - 12     |
|                          | 14.7           | 28.5             | 36.5 | 52.5 | 45.0 | 112.0 | HT 400 - 14     |
|                          | 17.0           | 28.5             | 36.5 | 52.5 | 45.0 | 112.0 | HT 400 - 16     |
|                          | 21.0           | 28.5             | 36.5 | 52.5 | 45.0 | 112.0 | HT 400 - 20     |
|                          | BL             | 28.5             | 36.5 | 52.5 | 45.0 | 112.0 | HT 400 - BL     |
| 500                      | 14.7           | 30.0             | 39.0 | 56.0 | 50.0 | 121.0 | HT 500 - 14     |
|                          | 17.0           | 30.0             | 39.0 | 56.0 | 50.0 | 121.0 | HT 500 - 16     |
|                          | 21.0           | 30.0             | 39.0 | 56.0 | 50.0 | 121.0 | HT 500 - 20     |
|                          | BL             | 30.0             | 39.0 | 56.0 | 50.0 | 121.0 | HT 500 - BL     |
| *630                     | 14.7           | 35.0             | 45.0 | 63.8 | 60.0 | 144.0 | HT 630 - 14     |
|                          | 17.0           | 35.0             | 45.0 | 63.8 | 60.0 | 144.0 | HT 630 - 16     |
|                          | 21.0           | 35.0             | 45.0 | 63.8 | 60.0 | 144.0 | HT 630 - 20     |
|                          | BL             | 35.0             | 45.0 | 63.8 | 60.0 | 144.0 | HT 630 - BL     |
| *800                     | BL             | 39.0             | 50.6 | 72.0 | 78.0 | 170.0 | HT 800 - BL     |
| *1000                    | BL             | 43.0             | 56.2 | 78.5 | 90.0 | 200.0 | HT 1000 - BL    |

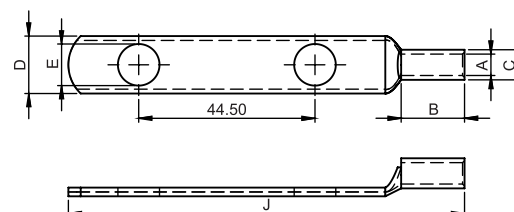
Tolerance on dimensions are as per UL FUS.

\* Not UL Listed.

# CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

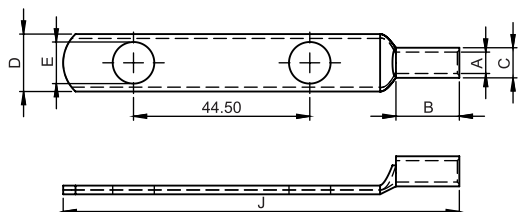
| Cable Size      |            | Stud<br>Hole E | Dimensions in mm |      |      |                   |       | Product<br>Code |
|-----------------|------------|----------------|------------------|------|------|-------------------|-------|-----------------|
| mm <sup>2</sup> | AWG        |                | A                | C    | D    | B<br>Strip Length | J     |                 |
| 16              | #6         | 5.2            | 5.4              | 7.1  | 12.0 | 16.0              | 100.0 | HT 16 2ER-5     |
|                 |            | 6.5            | 5.4              | 7.1  | 12.0 | 16.0              | 100.0 | HT 16 2ER-6     |
|                 |            | 8.4            | 5.4              | 7.1  | 12.0 | 16.0              | 100.0 | HT 16 2ER-8     |
|                 |            | 10.5           | 5.5              | 7.6  | 15.0 | 16.0              | 100.0 | HT 16 2ER-10    |
|                 |            | 13             | 5.5              | 7.6  | 17.0 | 16.0              | 100.0 | HT 16 2ER-12    |
|                 |            | 17             | 5.5              | 7.6  | 21.0 | 16.0              | 105.0 | HT 16 2ER-16    |
| 20              | #4         | 8.4            | 6.0              | 7.7  | 12.0 | 16.0              | 100.0 | HT 20 2ER-8     |
| 25              | #3         | 6.5            | 6.8              | 8.8  | 13.0 | 16.0              | 100.0 | HT 25 2ER-6     |
|                 |            | 8.4            | 6.8              | 8.8  | 13.0 | 16.0              | 100.0 | HT 25 2ER-8     |
|                 |            | 10.5           | 6.8              | 8.8  | 15.0 | 16.0              | 100.0 | HT 25 2ER-10    |
|                 |            | 13             | 6.8              | 9.2  | 17.0 | 16.0              | 100.0 | HT 25 2ER-12    |
|                 |            | 17             | 6.8              | 9.2  | 21.0 | 16.0              | 105.0 | HT 25 2ER-16    |
| 35              | #2         | 6.5            | 8.2              | 10.6 | 15.3 | 16.0              | 100.0 | HT 35 2ER-6     |
|                 |            | 8.4            | 8.2              | 10.6 | 15.3 | 16.0              | 100.0 | HT 35 2ER-8     |
|                 |            | 10.5           | 8.2              | 10.6 | 15.3 | 16.0              | 100.0 | HT 35 2ER-10    |
|                 |            | 13             | 8.2              | 10.6 | 18.0 | 16.0              | 100.0 | HT 35 2ER-12    |
|                 |            | 17             | 8.2              | 10.6 | 22.0 | 16.0              | 105.0 | HT 35 2ER-16    |
| 50              | 1/0<br>MCM | 6.5            | 9.5              | 12.4 | 17.8 | 25.0              | 109.0 | HT 50 2ER-6     |
|                 |            | 8.4            | 9.5              | 12.4 | 17.8 | 25.0              | 109.0 | HT 50 2ER-8     |
|                 |            | 10.5           | 9.5              | 12.4 | 17.8 | 25.0              | 109.0 | HT 50 2ER-10    |
|                 |            | 13             | 9.5              | 12.4 | 20.0 | 25.0              | 109.0 | HT 50 2ER-12    |
|                 |            | 13             | 9.5              | 12.4 | 18.0 | 25.0              | 109.0 | HT 50 2ER-12    |
|                 |            | 14.5           | 9.5              | 12.4 | 22.0 | 25.0              | 112.0 | HT 50 2ER-14    |
|                 |            | 17             | 9.5              | 12.4 | 22.0 | 25.0              | 114.0 | HT 50 2ER-16    |
|                 |            | 21             | 9.5              | 12.4 | 26.0 | 25.0              | 119.0 | HT 50 2ER-20    |
| 70              | 2/0<br>MCM | 8.4            | 11.3             | 14.6 | 21.0 | 30.0              | 114.0 | HT 70 2ER-8     |
|                 |            | 10.5           | 11.3             | 14.6 | 21.0 | 30.0              | 114.0 | HT 70 2ER-10    |
|                 |            | 13             | 11.3             | 14.6 | 21.0 | 30.0              | 114.0 | HT 70 2ER-12    |
|                 |            | 14.5           | 11.3             | 14.6 | 22.0 | 30.0              | 118.0 | HT 70 2ER-14    |
|                 |            | 17             | 11.3             | 14.6 | 26.0 | 30.0              | 120.0 | HT 70 2ER-16    |
|                 |            | 21             | 11.3             | 14.6 | 28.0 | 30.0              | 127.0 | HT 70 2ER-20    |
| 95              | 3/0<br>MCM | 8.4            | 13.5             | 17.4 | 25.0 | 30.0              | 116.0 | HT 95 2ER-8     |
|                 |            | 10.5           | 13.5             | 17.4 | 25.0 | 30.0              | 116.0 | HT 95 2ER-10    |
|                 |            | 13             | 13.5             | 17.4 | 25.0 | 30.0              | 116.0 | HT 95 2ER-12    |
|                 |            | 14.5           | 13.5             | 17.4 | 25.0 | 30.0              | 118.0 | HT 95 2ER-14    |
|                 |            | 17             | 13.5             | 17.4 | 25.0 | 30.0              | 120.0 | HT 95 2ER-16    |
|                 |            | 21             | 13.5             | 17.4 | 28.0 | 30.0              | 127.0 | HT 95 2ER-20    |
| 120             | 4/0<br>MCM | 8.4            | 15.0             | 19.4 | 28.0 | 35.0              | 122.0 | HT 120 2ER-8    |
|                 |            | 10.5           | 15.0             | 19.4 | 28.0 | 35.0              | 122.0 | HT 120 2ER-10   |
|                 |            | 13             | 15.0             | 19.4 | 28.0 | 35.0              | 122.0 | HT 120 2ER-12   |
|                 |            | 14.5           | 15.0             | 19.4 | 28.0 | 35.0              | 125.0 | HT 120 2ER-14   |
|                 |            | 17             | 15.0             | 19.4 | 28.0 | 35.0              | 128.0 | HT 120 2ER-16   |
|                 |            | 21             | 15.0             | 19.4 | 28.0 | 35.0              | 133.0 | HT 120 2ER-20   |
| 150             | 250<br>MCM | 8.4            | 16.5             | 21.2 | 30.0 | 40.0              | 126.0 | HT 150 2ER-8    |
|                 |            | 10.5           | 16.5             | 21.2 | 30.0 | 40.0              | 126.0 | HT 150 2ER-10   |
|                 |            | 13             | 16.5             | 21.2 | 30.0 | 40.0              | 126.0 | HT 150 2ER-12   |
|                 |            | 14.7           | 16.5             | 21.2 | 30.0 | 40.0              | 132.0 | HT 150 2ER-14   |
|                 |            | 17             | 16.5             | 21.2 | 30.0 | 40.0              | 134.0 | HT 150 2ER-16   |
|                 |            | 21             | 16.5             | 21.2 | 30.0 | 40.0              | 139.0 | HT 150 2ER-20   |





## CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED



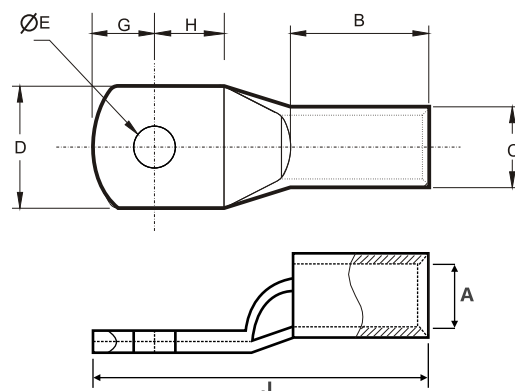
| Cable Size      |      | Stud<br>Hole E | Dimensions in mm |      |      |                   |       | Product<br>Code |
|-----------------|------|----------------|------------------|------|------|-------------------|-------|-----------------|
| mm <sup>2</sup> | AWG  |                | A                | C    | D    | B<br>Strip Length | J     |                 |
| 185             | 350  | 10.5           | 18.5             | 23.5 | 34.0 | 42.0              | 132.0 | HT 185 2ER-10   |
|                 | MCM  | 13             | 18.5             | 23.5 | 34.0 | 42.0              | 132.0 | HT 185 2ER-12   |
|                 |      | 14.7           | 18.5             | 23.5 | 34.0 | 42.0              | 135.0 | HT 185 2ER-14   |
|                 |      | 17             | 18.5             | 23.5 | 34.0 | 42.0              | 137.0 | HT 185 2ER-16   |
|                 |      | 21             | 18.5             | 23.5 | 34.0 | 42.0              | 142.0 | HT 185 2ER-20   |
| 240             | 500  | 10.5           | 21.0             | 26.5 | 38.0 | 50.0              | 143.0 | HT 240 2ER-10   |
|                 | MCM  | 13             | 21.0             | 26.5 | 38.0 | 50.0              | 143.0 | HT 240 2ER-12   |
|                 |      | 14.7           | 21.0             | 26.5 | 38.0 | 50.0              | 145.0 | HT 240 2ER-14   |
|                 |      | 17             | 21.0             | 26.5 | 38.0 | 50.0              | 147.0 | HT 240 2ER-16   |
|                 |      | 21             | 21.0             | 26.5 | 38.0 | 50.0              | 152.0 | HT 240 2ER-20   |
|                 |      | BL             | 21.0             | 26.5 | 38.0 | 50.0              | 143.0 | HT 240 2ER-BL   |
| 300             | 600  | 10.5           | 23.5             | 30.0 | 43.0 | 55.0              | 144.0 | HT 300 2ER-10   |
|                 | MCM  | 13             | 23.5             | 30.0 | 43.0 | 55.0              | 144.0 | HT 300 2ER-12   |
|                 |      | 14.7           | 23.5             | 30.0 | 43.0 | 55.0              | 151.0 | HT 300 2ER-14   |
|                 |      | 17             | 23.5             | 30.0 | 43.0 | 55.0              | 153.0 | HT 300 2ER-16   |
|                 |      | 21             | 23.5             | 30.0 | 43.0 | 55.0              | 158.0 | HT 300 2ER-20   |
|                 |      | BL             | 23.5             | 30.0 | 43.0 | 55.0              | 144.0 | HT 300 2ER-BL   |
| 400             | 750  | 13             | 28.5             | 36.5 | 52.5 | 60.0              | 149.0 | HT 400 2ER-12   |
|                 | MCM  | 14.7           | 28.5             | 36.5 | 52.5 | 60.0              | 158.0 | HT 400 2ER-14   |
|                 |      | 17             | 28.5             | 36.5 | 52.5 | 60.0              | 160.0 | HT 400 2ER-16   |
|                 |      | 21             | 28.5             | 36.5 | 52.5 | 60.0              | 165.0 | HT 400 2ER-20   |
|                 |      | BL             | 28.5             | 36.5 | 52.5 | 60.0              | 149.0 | HT 400 2ER-BL   |
| 500             | 1000 | 13.0           | 30.0             | 39.0 | 56.0 | 65.0              | 160.0 | HT 500 2ER-12   |
|                 | MCM  | 14.7           | 30.0             | 39.0 | 56.0 | 65.0              | 163.0 | HT 500 2ER-14   |
|                 |      | 17             | 30.0             | 39.0 | 56.0 | 65.0              | 165.0 | HT 500 2ER-16   |
|                 |      | 21             | 30.0             | 39.0 | 56.0 | 65.0              | 170.0 | HT 500 2ER-20   |
|                 |      | BL             | 30.0             | 39.0 | 56.0 | 65.0              | 160.0 | HT 500 2ER-BL   |

Note : Tolerance on dimensions are as per UL FUS.

# CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS - ECONOMY RANGE

**MATERIAL : E - COPPER • FINISH : ELECTRO TINNED**

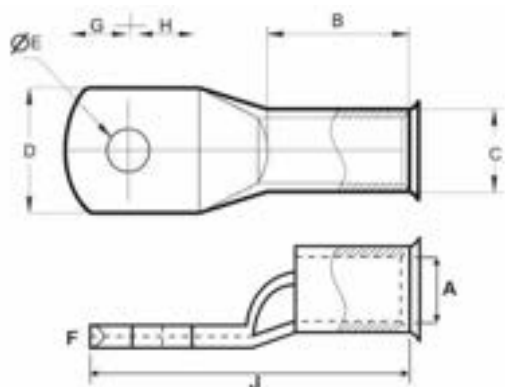
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm ± 3% |      |      |      |      |      |       | Product<br>Code |
|--------------------------|----------------|-----------------------|------|------|------|------|------|-------|-----------------|
|                          |                | A                     | C    | D    | G    | H    | B    | J     |                 |
| 35                       | 6.5            | 8.0                   | 10.0 | 14.5 | 9.0  | 9.0  | 13.5 | 37.0  | HLT 35 - 6      |
|                          | 8.4            | 8.0                   | 10.0 | 14.5 | 9.0  | 9.0  | 13.5 | 37.0  | HLT 35 - 8      |
|                          | 10.5           | 8.0                   | 10.0 | 14.5 | 9.0  | 9.0  | 13.5 | 37.0  | HLT 35 - 10     |
|                          | 13.0           | 8.0                   | 10.0 | 18.0 | 10.0 | 12.0 | 13.5 | 41.0  | HLT 35 - 12     |
|                          | 17.0           | 8.0                   | 10.0 | 22.0 | 14.0 | 16.0 | 13.5 | 50.0  | HLT 35 - 16     |
| 50                       | 6.5            | 9.2                   | 11.2 | 16.5 | 8.0  | 11.0 | 17.0 | 42.0  | HLT 50 - 6      |
|                          | 8.4            | 9.2                   | 11.2 | 16.5 | 9.0  | 10.0 | 17.0 | 42.0  | HLT 50 - 8      |
|                          | 10.5           | 9.2                   | 11.2 | 16.5 | 9.0  | 10.0 | 17.0 | 42.0  | HLT 50 - 10     |
|                          | 13.0           | 9.2                   | 11.2 | 20.0 | 10.0 | 12.0 | 17.0 | 45.0  | HLT 50 - 12     |
|                          | 15.0           | 9.2                   | 11.2 | 22.0 | 15.0 | 15.0 | 17.0 | 53.0  | HLT 50 - 14     |
|                          | 17.0           | 9.2                   | 11.2 | 22.0 | 15.0 | 15.0 | 17.0 | 53.0  | HLT 50 - 16     |
|                          | 21.0           | 9.2                   | 11.2 | 26.0 | 16.0 | 18.0 | 18.0 | 60.0  | HLT 50 - 20     |
| 70                       | 8.4            | 11.5                  | 13.8 | 20.0 | 11.0 | 11.0 | 18.5 | 47.0  | HLT 70 - 8      |
|                          | 10.5           | 11.5                  | 13.8 | 20.0 | 11.0 | 11.0 | 18.5 | 47.0  | HLT 70 - 10     |
|                          | 13.0           | 11.5                  | 13.8 | 20.0 | 10.0 | 12.0 | 18.5 | 47.0  | HLT 70 - 12     |
|                          | 15.0           | 11.5                  | 13.8 | 20.0 | 14.0 | 15.0 | 18.5 | 55.0  | HLT 70 - 14     |
|                          | 17.0           | 11.5                  | 13.8 | 22.0 | 14.0 | 16.0 | 18.5 | 56.0  | HLT 70 - 16     |
|                          | 21.0           | 11.5                  | 13.8 | 24.0 | 16.0 | 18.0 | 18.5 | 63.0  | HLT 70 - 20     |
| 95                       | 8.4            | 12.8                  | 15.6 | 23.0 | 12.0 | 13.0 | 21.0 | 53.0  | HLT 95 - 8      |
|                          | 10.5           | 12.8                  | 15.6 | 23.0 | 12.0 | 13.0 | 21.0 | 53.0  | HLT 95 - 10     |
|                          | 13.0           | 12.8                  | 15.6 | 23.0 | 12.0 | 13.0 | 21.0 | 53.0  | HLT 95 - 12     |
|                          | 15.0           | 12.8                  | 15.6 | 23.0 | 14.0 | 15.0 | 22.0 | 58.0  | HLT 95 - 14     |
|                          | 17.0           | 12.8                  | 15.6 | 23.0 | 14.0 | 16.0 | 22.0 | 59.0  | HLT 95 - 16     |
| 120                      | 21.0           | 12.8                  | 15.6 | 26.0 | 16.0 | 16.0 | 22.0 | 63.0  | HLT 95 - 20     |
|                          | 8.4            | 14.8                  | 17.8 | 26.0 | 13.0 | 14.0 | 23.0 | 60.0  | HLT 120 - 8     |
|                          | 10.5           | 14.8                  | 17.8 | 26.0 | 13.0 | 14.0 | 23.0 | 60.0  | HLT 120 - 10    |
|                          | 13.0           | 14.8                  | 17.8 | 26.0 | 13.0 | 14.0 | 23.0 | 60.0  | HLT 120 - 12    |
|                          | 15.0           | 14.8                  | 17.8 | 26.0 | 13.0 | 14.0 | 23.0 | 60.0  | HLT 120 - 14    |
|                          | 17.0           | 14.8                  | 17.8 | 26.0 | 16.0 | 16.0 | 23.0 | 64.0  | HLT 120 - 16    |
| 150                      | 21.0           | 14.8                  | 17.8 | 26.0 | 16.0 | 20.0 | 23.0 | 68.0  | HLT 120 - 20    |
|                          | 8.4            | 16.0                  | 19.6 | 28.5 | 16.0 | 16.0 | 27.0 | 70.0  | HLT 150 - 8     |
|                          | 10.5           | 16.0                  | 19.6 | 28.5 | 16.0 | 16.0 | 27.0 | 70.0  | HLT 150 - 10    |
|                          | 13.0           | 16.0                  | 19.6 | 28.5 | 16.0 | 16.0 | 27.0 | 70.0  | HLT 150 - 12    |
|                          | 15.0           | 16.0                  | 19.6 | 28.5 | 16.0 | 16.0 | 27.0 | 70.0  | HLT 150 - 14    |
|                          | 17.0           | 16.0                  | 19.6 | 28.5 | 16.0 | 16.0 | 27.0 | 70.0  | HLT 150 - 16    |
| 185                      | 21.0           | 16.0                  | 19.6 | 28.5 | 16.0 | 16.0 | 27.0 | 70.0  | HLT 150 - 20    |
|                          | 10.5           | 18.0                  | 22.0 | 32.0 | 17.0 | 19.0 | 32.0 | 80.0  | HLT 185 - 10    |
|                          | 13.0           | 18.0                  | 22.0 | 32.0 | 17.0 | 19.0 | 32.0 | 80.0  | HLT 185 - 12    |
|                          | 15.0           | 18.0                  | 22.0 | 32.0 | 17.0 | 19.0 | 32.0 | 80.0  | HLT 185 - 14    |
|                          | 17.0           | 18.0                  | 22.0 | 32.0 | 17.0 | 19.0 | 32.0 | 80.0  | HLT 185 - 16    |
| 240                      | 21.0           | 18.0                  | 22.0 | 32.0 | 17.0 | 19.0 | 32.0 | 80.0  | HLT 185 - 20    |
|                          | 10.5           | 22.0                  | 26.0 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0  | HLT 240 - 10    |
|                          | 13.0           | 22.0                  | 26.0 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0  | HLT 240 - 12    |
|                          | 15.0           | 22.0                  | 26.0 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0  | HLT 240 - 14    |
|                          | 17.0           | 22.0                  | 26.0 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0  | HLT 240 - 16    |
| 300                      | 21.0           | 22.0                  | 26.0 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0  | HLT 240 - 20    |
|                          | 10.5           | 24.0                  | 28.7 | 42.0 | 22.0 | 23.0 | 42.0 | 102.0 | HLT 300 - 10    |
|                          | 13.0           | 24.0                  | 28.7 | 42.0 | 22.0 | 23.0 | 42.0 | 102.0 | HLT 300 - 12    |
|                          | 15.0           | 24.0                  | 28.7 | 42.0 | 22.0 | 23.0 | 42.0 | 102.0 | HLT 300 - 14    |
|                          | 17.0           | 24.0                  | 28.7 | 42.0 | 22.0 | 23.0 | 42.0 | 102.0 | HLT 300 - 16    |
| 400                      | 21.0           | 24.0                  | 28.7 | 42.0 | 22.0 | 23.0 | 42.0 | 102.0 | HLT 300 - 20    |
|                          | BL             | 24.0                  | 28.7 | 42.0 | 22.0 | 23.0 | 42.0 | 102.0 | HLT 300 - BL    |
|                          | 13.0           | 28.0                  | 33.2 | 49.0 | 25.0 | 25.0 | 45.0 | 112.0 | HLT 400 - 12    |
|                          | 15.0           | 28.0                  | 33.2 | 49.0 | 25.0 | 25.0 | 45.0 | 112.0 | HLT 400 - 14    |
|                          | 17.0           | 28.0                  | 33.2 | 49.0 | 25.0 | 25.0 | 45.0 | 112.0 | HLT 400 - 16    |
| 500                      | 21.0           | 28.0                  | 33.2 | 49.0 | 25.0 | 25.0 | 45.0 | 112.0 | HLT 400 - 20    |
|                          | BL             | 28.0                  | 33.2 | 49.0 | 25.0 | 25.0 | 45.0 | 112.0 | HLT 400 - BL    |
|                          | 15.0           | 30.0                  | 36.0 | 53.0 | 27.0 | 27.0 | 50.0 | 121.0 | HLT 500 - 14    |
|                          | 17.0           | 30.0                  | 36.0 | 53.0 | 27.0 | 27.0 | 50.0 | 121.0 | HLT 500 - 16    |
| 630                      | 21.0           | 30.0                  | 36.0 | 53.0 | 27.0 | 27.0 | 50.0 | 121.0 | HLT 500 - 20    |
|                          | BL             | 30.0                  | 36.0 | 53.0 | 27.0 | 27.0 | 50.0 | 121.0 | HLT 500 - BL    |
|                          | 15.0           | 35.0                  | 41.5 | 61.0 | 25.0 | 25.0 | 70.0 | 144.0 | HLT 630 - 14    |
|                          | 17.0           | 35.0                  | 41.5 | 61.0 | 25.0 | 25.0 | 70.0 | 144.0 | HLT 630 - 16    |
| 800                      | 21.0           | 35.0                  | 41.5 | 61.0 | 25.0 | 25.0 | 70.0 | 144.0 | HLT 630 - 20    |
|                          | BL             | 35.0                  | 41.5 | 61.0 | 25.0 | 25.0 | 70.0 | 144.0 | HLT 630 - BL    |
|                          | BL             | 39.0                  | 46.3 | 67.0 | -    | -    | 78.0 | 170.0 | HLT 800 - BL    |
| 1000                     | BL             | 43.0                  | 53.8 | 76.0 | -    | -    | 90.0 | 200.0 | HLT 1000 - BL   |





## CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS - BELL MOUTH

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED



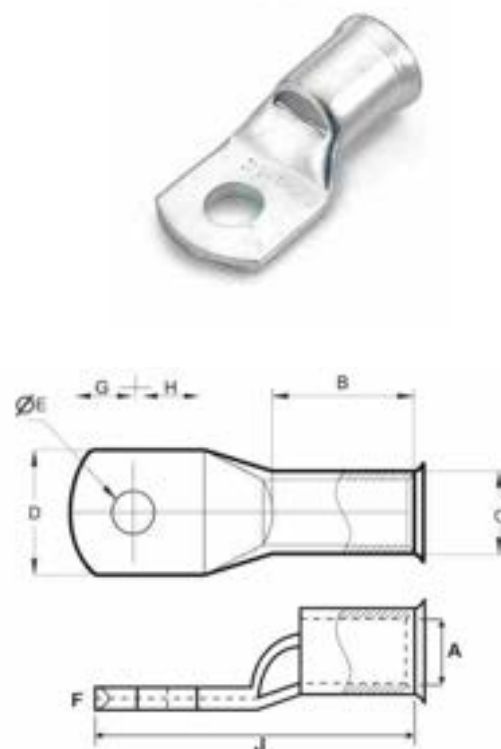
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |      |      |      |      | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|------|------|------|------|-----------------|
|                          |                | A                         | C    | D    | G    | H    | B    | J    |                 |
| 10                       | 5.2            | 4.5                       | 6.2  | 11.0 | 6.0  | 7.0  | 10.0 | 26.0 | BHT 10 - 5      |
|                          | 6.5            | 4.5                       | 6.2  | 11.0 | 6.0  | 7.0  | 10.0 | 26.0 | BHT 10 - 6      |
|                          | 8.4            | 4.5                       | 6.2  | 12.0 | 6.0  | 9.0  | 10.0 | 28.0 | BHT 10 - 8      |
|                          | 10.5           | 4.5                       | 6.8  | 15.0 | 8.0  | 11.0 | 11.0 | 33.0 | BHT 10 - 10     |
|                          | 13.0           | 4.5                       | 6.8  | 18.0 | 9.0  | 11.0 | 11.0 | 36.0 | BHT 10 - 12     |
| 16                       | 5.2            | 5.4                       | 7.1  | 12.0 | 7.0  | 7.0  | 12.0 | 30.0 | BHT 16 - 5      |
|                          | 6.5            | 5.4                       | 7.1  | 12.0 | 7.0  | 7.0  | 12.0 | 30.0 | BHT 16 - 6      |
|                          | 8.4            | 5.4                       | 7.1  | 12.0 | 7.0  | 7.0  | 12.0 | 30.0 | BHT 16 - 8      |
|                          | 10.5           | 5.5                       | 7.6  | 15.0 | 8.0  | 12.0 | 12.0 | 36.0 | BHT 16 - 10     |
|                          | 13.0           | 5.5                       | 7.6  | 17.0 | 11.0 | 13.0 | 12.0 | 39.0 | BHT 16 - 13     |
|                          | 17.0           | 5.5                       | 7.6  | 21.0 | 13.0 | 14.0 | 12.0 | 44.0 | BHT 16 - 16     |
| 25                       | 6.5            | 6.8                       | 8.8  | 13.0 | 7.0  | 7.0  | 12.0 | 30.0 | BHT 25 - 6      |
|                          | 8.4            | 6.8                       | 8.8  | 13.0 | 7.0  | 7.0  | 12.0 | 30.0 | BHT 25 - 8      |
|                          | 10.5           | 6.8                       | 8.8  | 15.0 | 10.0 | 11.0 | 13.0 | 38.0 | BHT 25 - 10     |
|                          | 13.0           | 6.8                       | 9.2  | 17.0 | 10.0 | 12.0 | 15.0 | 41.0 | BHT 25 - 12     |
|                          | 17.0           | 6.8                       | 9.2  | 21.0 | 13.0 | 14.0 | 15.0 | 47.0 | BHT 25 - 16     |
| 35                       | 6.5            | 8.2                       | 10.6 | 15.3 | 9.0  | 9.0  | 13.5 | 37.0 | BHT 35 - 6      |
|                          | 8.4            | 8.2                       | 10.6 | 15.3 | 9.0  | 9.0  | 13.5 | 37.0 | BHT 35 - 8      |
|                          | 10.5           | 8.2                       | 10.6 | 15.3 | 9.0  | 9.0  | 13.5 | 37.0 | BHT 35 - 10     |
|                          | 13.0           | 8.2                       | 10.6 | 15.3 | 10.0 | 12.0 | 13.5 | 41.0 | BHT 35 - 12     |
|                          | 17.0           | 8.2                       | 10.6 | 22.0 | 13.0 | 14.0 | 15.0 | 47.0 | BHT 35 - 16     |
| 50                       | 6.5            | 9.5                       | 12.4 | 17.8 | 9.0  | 10.0 | 17.0 | 42.0 | BHT 50 - 6      |
|                          | 8.4            | 9.5                       | 12.4 | 17.8 | 9.0  | 10.0 | 17.0 | 42.0 | BHT 50 - 8      |
|                          | 10.5           | 9.5                       | 12.4 | 17.8 | 9.0  | 10.0 | 17.0 | 42.0 | BHT 50 - 10     |
|                          | 13.0           | 9.5                       | 12.4 | 20.0 | 10.0 | 12.0 | 17.0 | 45.0 | BHT 50 - 13     |
|                          | 14.5           | 9.5                       | 12.4 | 22.0 | 15.0 | 15.0 | 18.0 | 54.0 | BHT 50 - 14     |
|                          | 17.0           | 9.5                       | 12.4 | 22.0 | 15.0 | 15.0 | 18.0 | 54.0 | BHT 50 - 16     |
|                          | 21.0           | 9.5                       | 12.4 | 26.0 | 15.0 | 18.0 | 18.0 | 60.0 | BHT 50 - 20     |
| 70                       | 8.4            | 11.3                      | 14.6 | 21.0 | 11.0 | 11.0 | 18.5 | 47.0 | BHT 70 - 8      |
|                          | 10.5           | 11.3                      | 14.6 | 21.0 | 11.0 | 11.0 | 18.5 | 47.0 | BHT 70 - 10     |
|                          | 13.0           | 11.3                      | 14.6 | 21.0 | 11.0 | 11.0 | 18.5 | 47.0 | BHT 70 - 12     |
|                          | 14.5           | 11.3                      | 14.6 | 22.0 | 14.0 | 15.0 | 18.5 | 55.0 | BHT 70 - 14     |
|                          | 17.0           | 11.3                      | 14.6 | 26.0 | 14.0 | 16.0 | 18.5 | 56.0 | BHT 70 - 16     |
|                          | 21.0           | 11.3                      | 14.6 | 28.0 | 16.0 | 18.0 | 18.5 | 63.0 | BHT 70 - 20     |
| 95                       | 8.4            | 13.5                      | 17.4 | 25.0 | 12.0 | 13.0 | 21.0 | 53.0 | BHT 95 - 8      |
|                          | 10.5           | 13.5                      | 17.4 | 25.0 | 12.0 | 13.0 | 21.0 | 53.0 | BHT 95 - 10     |
|                          | 13.0           | 13.5                      | 17.4 | 25.0 | 12.0 | 13.0 | 21.0 | 53.0 | BHT 95 - 12     |
|                          | 14.5           | 13.5                      | 17.4 | 25.0 | 14.0 | 15.0 | 22.0 | 57.0 | BHT 95 - 14     |
|                          | 17.0           | 13.5                      | 17.4 | 25.0 | 14.0 | 16.0 | 22.0 | 58.0 | BHT 95 - 16     |
|                          | 21.0           | 13.5                      | 17.4 | 28.0 | 15.0 | 16.0 | 22.0 | 63.0 | BHT 95 - 20     |
| 120                      | 8.4            | 15.0                      | 19.4 | 28.0 | 13.0 | 14.0 | 23.0 | 60.0 | BHT 120 - 8     |
|                          | 10.5           | 15.0                      | 19.4 | 28.0 | 13.0 | 14.0 | 23.0 | 60.0 | BHT 120 - 10    |
|                          | 13.0           | 15.0                      | 19.4 | 28.0 | 13.0 | 14.0 | 23.0 | 60.0 | BHT 120 - 12    |
|                          | 14.5           | 15.0                      | 19.4 | 28.0 | 13.0 | 14.0 | 23.0 | 60.0 | BHT 120 - 14    |
|                          | 17.0           | 15.0                      | 19.4 | 28.0 | 16.0 | 16.0 | 23.0 | 64.0 | BHT 120 - 16    |
|                          | 21.0           | 15.0                      | 19.4 | 28.0 | 16.0 | 20.0 | 23.0 | 68.0 | BHT 120 - 20    |

## CRIMPING TYPE COPPER TUBULAR CABLE TERMINAL ENDS - BELL MOUTH

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm 3\%$ |      |      |      |      |      |      | Product<br>Code |
|--------------------------|----------------|----------------------------|------|------|------|------|------|------|-----------------|
|                          |                | A                          | C    | D    | G    | H    | B    | J    |                 |
| 150                      | 8.4            | 16.5                       | 21.2 | 30.0 | 16.0 | 16.0 | 27.0 | 70.0 | BHT 150 - 8     |
|                          | 10.5           | 16.5                       | 21.2 | 30.0 | 16.0 | 16.0 | 27.0 | 70.0 | BHT 150 - 10    |
|                          | 13.0           | 16.5                       | 21.2 | 30.0 | 16.0 | 16.0 | 27.0 | 70.0 | BHT 150 - 12    |
|                          | 14.7           | 16.5                       | 21.2 | 30.0 | 16.0 | 16.0 | 27.0 | 70.0 | BHT 150 - 14    |
|                          | 17.0           | 16.5                       | 21.2 | 30.0 | 16.0 | 16.0 | 27.0 | 70.0 | BHT 150 - 16    |
|                          | 21.0           | 16.5                       | 21.2 | 30.0 | 16.0 | 16.0 | 27.0 | 70.0 | BHT 150 - 20    |
| 185                      | 10.5           | 18.5                       | 23.5 | 34.0 | 17.0 | 19.0 | 32.0 | 80.0 | BHT 185 - 10    |
|                          | 13.0           | 18.5                       | 23.5 | 34.0 | 17.0 | 19.0 | 32.0 | 80.0 | BHT 185 - 12    |
|                          | 14.7           | 18.5                       | 23.5 | 34.0 | 17.0 | 19.0 | 32.0 | 80.0 | BHT 185 - 14    |
|                          | 17.0           | 18.5                       | 23.5 | 34.0 | 17.0 | 19.0 | 32.0 | 80.0 | BHT 185 - 16    |
|                          | 21.0           | 18.5                       | 23.5 | 34.0 | 17.0 | 19.0 | 32.0 | 80.0 | BHT 185 - 20    |
|                          |                |                            |      |      |      |      |      |      |                 |
| 240                      | 10.5           | 21.0                       | 26.5 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0 | BHT 240 - 10    |
|                          | 13.0           | 21.0                       | 26.5 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0 | BHT 240 - 12    |
|                          | 14.5           | 21.0                       | 26.5 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0 | BHT 240 - 14    |
|                          | 17.0           | 21.0                       | 26.5 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0 | BHT 240 - 16    |
|                          | 21.0           | 21.0                       | 26.5 | 38.0 | 20.0 | 21.0 | 39.0 | 94.0 | BHT 240 - 20    |
|                          |                |                            |      |      |      |      |      |      |                 |

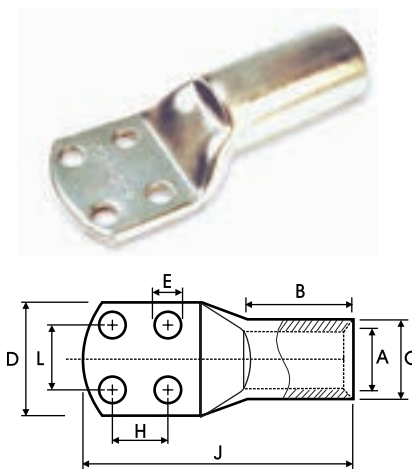
Note : Bell Mouth above 240 mm<sup>2</sup> can be supplied on request.



## FOUR HOLE CABLE TERMINAL ENDS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

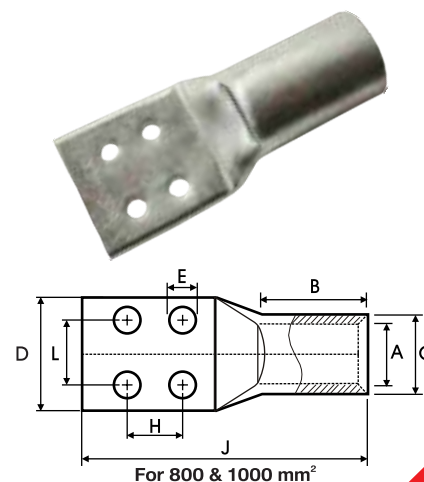
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm 3\%$ |      |      |    |    |    |     | Product<br>Code |
|--------------------------|----------------|----------------------------|------|------|----|----|----|-----|-----------------|
|                          |                | A                          | C    | D    | B  | L  | H  | J   |                 |
| 400                      | 10.5           | 28.5                       | 36.5 | 52.5 | 45 | 35 | 25 | 114 | HT4004E10       |
|                          | 12.5           | 28.5                       | 36.5 | 52.5 | 45 | 35 | 25 | 114 | HT 4004E12      |
| 500                      | 10.5           | 30                         | 39   | 56   | 50 | 35 | 25 | 124 | HT 5004E10      |
|                          | 12.5           | 30                         | 39   | 56   | 50 | 35 | 25 | 124 | HT 5004E12      |
| 630                      | 10.5           | 35                         | 45   | 65   | 60 | 35 | 25 | 144 | HT 6304E10      |
|                          | 12.5           | 35                         | 45   | 65   | 60 | 35 | 25 | 144 | HT 6304E12      |
| 800                      | 10.5           | 39                         | 50.6 | 72   | 78 | 35 | 25 | 170 | HT 8004E10      |
|                          | 12.5           | 39                         | 50.6 | 72   | 78 | 35 | 25 | 170 | HT 8004E12      |
| 1000                     | 10.5           | 43                         | 56.2 | 78.5 | 90 | 35 | 25 | 200 | HT10004E10      |
|                          | 12.5           | 43                         | 56.2 | 78.5 | 90 | 35 | 25 | 200 | HT 10004E12     |



## FOUR HOLE CABLE TERMINAL ENDS (ECONOMY RANGE)

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |    |    |    |    |     | Product<br>Code |
|--------------------------|----------------------------|----|----|----|----|-----|-----------------|
|                          | E                          | A  | D  | L  | H  | J   |                 |
| 630                      | 10.5                       | 35 | 61 | 35 | 25 | 144 | HLT 6304E10     |
| 800                      | 10.5                       | 39 | 67 | 35 | 25 | 170 | HLT 8004E10     |

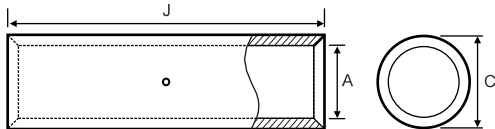


## CRIMPING TYPE COPPER TUBULAR IN-LINE CONNECTORS ( LINKS )

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

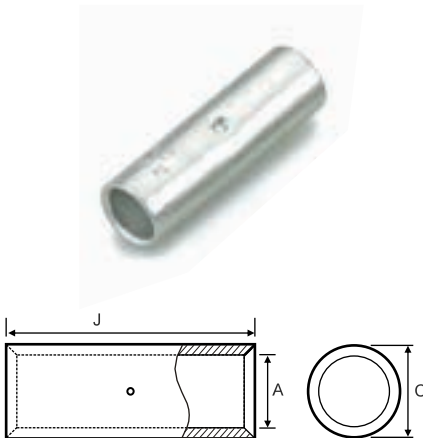
Long Barrel Connectors

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |     | Product<br>Code |
|--------------------------|---------------------------|------|-----|-----------------|
|                          | A                         | C    | J   |                 |
| 1.5                      | 1.8                       | 3.7  | 22  | HC 1.5          |
| 2.5                      | 2.4                       | 4    | 22  | HC 2.5          |
| 4                        | 3.1                       | 4.8  | 22  | HC 4            |
| 6                        | 3.8                       | 5.5  | 22  | HC 6            |
| 10                       | 4.5                       | 6.2  | 22  | HC 10           |
| 16                       | 5.4                       | 7.1  | 44  | HC 16           |
| 25                       | 6.8                       | 8.8  | 47  | HC 25           |
| 35                       | 8.2                       | 10.6 | 47  | HC 35           |
| 50                       | 9.5                       | 12.4 | 47  | HC 50           |
| 70                       | 11.3                      | 14.6 | 50  | HC 70           |
| 95                       | 13.5                      | 17.4 | 54  | HC 95           |
| 120                      | 15                        | 19.4 | 65  | HC 120          |
| 150                      | 16.5                      | 21.2 | 65  | HC 150          |
| 185                      | 18.5                      | 23.5 | 65  | HC 185          |
| 240                      | 21                        | 26.5 | 89  | HC 240          |
| 300                      | 23.5                      | 30   | 89  | HC 300          |
| 400                      | 28.5                      | 36.5 | 90  | HC 400          |
| 500                      | 30                        | 39   | 115 | HC 500          |
| 630                      | 35                        | 45   | 115 | HC 630          |
| 800                      | 39                        | 50.6 | 230 | HC 800          |
| 1000                     | 43                        | 56.2 | 230 | HC 1000         |



Short Barrel Connectors

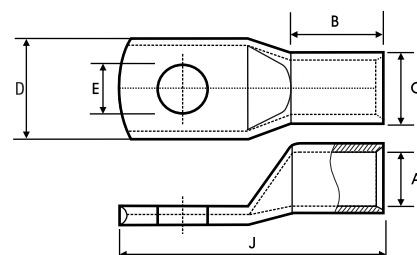
| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |     | Product<br>Code |
|--------------------------|---------------------------|------|-----|-----------------|
|                          | A                         | C    | J   |                 |
| 1.5                      | 1.8                       | 3.7  | 12  | HL 1.5          |
| 2.5                      | 2.4                       | 4    | 15  | HL 2.5          |
| 4                        | 3.1                       | 4.8  | 15  | HL 4            |
| 6                        | 3.8                       | 5.5  | 15  | HL 6            |
| 10                       | 4.5                       | 6.2  | 20  | HL 10           |
| 16                       | 5.4                       | 7.1  | 20  | HL 16           |
| 20                       | 6.3                       | 7.7  | 22  | HL 20           |
| 25                       | 6.8                       | 8.8  | 32  | HL 25           |
| 35                       | 8.2                       | 10.6 | 36  | HL 35           |
| 50                       | 9.5                       | 12.4 | 40  | HL 50           |
| 70                       | 11.3                      | 14.6 | 45  | HL 70           |
| 95                       | 13.5                      | 17.4 | 45  | HL 95           |
| 120                      | 15                        | 19.4 | 50  | HL 120          |
| 150                      | 16.5                      | 21.2 | 55  | HL 150          |
| 185                      | 18.5                      | 23.5 | 60  | HL 185          |
| 240                      | 21                        | 26.5 | 80  | HL 240          |
| 300                      | 23.5                      | 30   | 85  | HL 300          |
| 400                      | 28.5                      | 36.5 | 85  | HL 400          |
| 500                      | 30                        | 39   | 100 | HL 500          |
| *630                     | 35                        | 45   | 110 | HL 630          |
| *800                     | 39                        | 50.6 | 150 | HL 800          |
| *1000                    | 43                        | 56.2 | 170 | HL 1000         |



# TINNED COPPER TUBULAR CABLE LUGS ( WITHOUT INSPECTION HOLE )

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

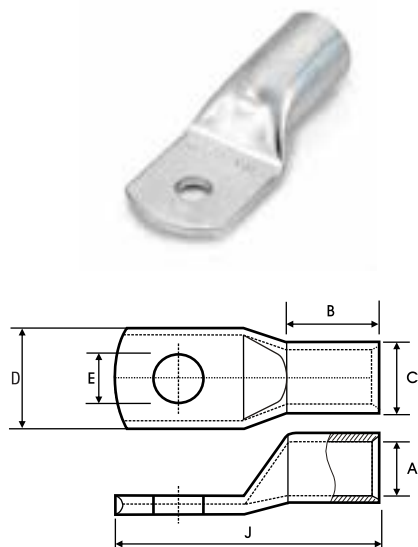
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |    |      | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|----|------|-----------------|
|                          |                | A                         | C    | D    | B  | J    |                 |
| 2.5                      | 5.3            | 2.4                       | 4    | 10   | 8  | 22   | HNL 2.5-5       |
| 4                        | 5.3            | 3.1                       | 4.8  | 10   | 8  | 22   | HNL 4-5         |
| 6                        | 5.3            | 3.8                       | 5.5  | 10   | 9  | 23   | HNL 6-5         |
|                          | 6.5            | 3.8                       | 5.5  | 10   | 9  | 23   | HNL 6-6         |
|                          | 8.5            | 3.8                       | 5.5  | 12   | 9  | 27   | HNL 6-8         |
|                          | 10.5           | 3.8                       | 6    | 14.5 | 9  | 34   | HNL 6-10        |
|                          | 13             | 3.8                       | 6    | 17   | 9  | 37   | HNL 6-12        |
| 10                       | 5.3            | 4.5                       | 6.2  | 10   | 10 | 26   | HNL 10-5        |
|                          | 6.5            | 4.5                       | 6.2  | 10.5 | 10 | 26   | HNL 10-6        |
|                          | 8.5            | 4.5                       | 6.2  | 12   | 10 | 29   | HNL 10-8        |
|                          | 10.5           | 4.5                       | 7    | 15   | 10 | 34   | HNL 10-10       |
|                          | 13             | 4.5                       | 7    | 17   | 10 | 38   | HNL 10-12       |
| 16                       | 5.3            | 5.4                       | 7.1  | 10.5 | 13 | 30.5 | HNL 16-5        |
|                          | 6.5            | 5.4                       | 7.1  | 10.5 | 13 | 30.5 | HNL 16-6        |
|                          | 8.5            | 5.4                       | 7.1  | 12   | 13 | 33   | HNL 16-8        |
|                          | 10.5           | 5.5                       | 7.6  | 15   | 13 | 38   | HNL 16-10       |
|                          | 13             | 5.5                       | 7.6  | 17   | 13 | 42   | HNL 16-12       |
| 25                       | 5.3            | 6.8                       | 8.8  | 12.5 | 13 | 31.5 | HNL 25-5        |
|                          | 6.5            | 6.8                       | 8.8  | 12.5 | 13 | 31.5 | HNL 25-6        |
|                          | 8.5            | 6.8                       | 8.8  | 12.5 | 13 | 33   | HNL 25-8        |
|                          | 10.5           | 6.8                       | 8.8  | 15   | 13 | 39   | HNL 25-10       |
|                          | 13             | 6.8                       | 9.2  | 18   | 13 | 43   | HNL 25-12       |
| 35                       | 15             | 6.8                       | 9.2  | 21   | 13 | 45   | HNL 25-14       |
|                          | 6.5            | 8.2                       | 10.6 | 15   | 15 | 38   | HNL 35-6        |
|                          | 8.5            | 8.2                       | 10.6 | 15   | 15 | 42   | HNL 35-8        |
|                          | 10.5           | 8.2                       | 10.6 | 15   | 16 | 47   | HNL 35-10       |
|                          | 13             | 8.2                       | 10.6 | 17   | 15 | 51   | HNL 35-12       |
| 50                       | 15             | 8.2                       | 10.6 | 21   | 15 | 51   | HNL 35-14       |
|                          | 6.5            | 9.5                       | 12.4 | 17.2 | 17 | 44   | HNL 50-6        |
|                          | 8.5            | 9.5                       | 12.4 | 17.2 | 17 | 44   | HNL 50-8        |
|                          | 10.5           | 9.5                       | 12.4 | 17.2 | 17 | 49   | HNL 50-10       |
|                          | 13             | 9.5                       | 12.4 | 20.5 | 17 | 53.5 | HNL 50-12       |
| 70                       | 15             | 9.5                       | 12.4 | 23   | 17 | 54.5 | HNL 50-14       |
|                          | 6.5            | 11.3                      | 14.6 | 21   | 21 | 48   | HNL 70-6        |
|                          | 8.5            | 11.3                      | 14.6 | 21   | 21 | 48   | HNL 70-8        |
|                          | 10.5           | 11.3                      | 14.6 | 21   | 21 | 53   | HNL 70-10       |
|                          | 13             | 11.3                      | 14.6 | 21   | 21 | 55   | HNL 70-12       |
| 95                       | 15             | 11.3                      | 14.6 | 22   | 21 | 63   | HNL 70-14       |
|                          | 8.5            | 13.5                      | 17.4 | 24.5 | 23 | 55   | HNL 95-8        |
|                          | 10.5           | 13.5                      | 17.4 | 24.5 | 24 | 56   | HNL 95-10       |
|                          | 13             | 13.5                      | 17.4 | 24.5 | 24 | 58   | HNL 95-12       |
|                          | 15             | 13.5                      | 17.4 | 24.5 | 24 | 66   | HNL 95-14       |
|                          | 17             | 13.5                      | 17.4 | 26   | 24 | 66   | HNL 95-16       |
|                          | 21             | 13.5                      | 17.4 | 28   | 24 | 67   | HNL 95-20       |



## TINNED COPPER TUBULAR CABLE LUGS ( WITHOUT INSPECTION HOLE )

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

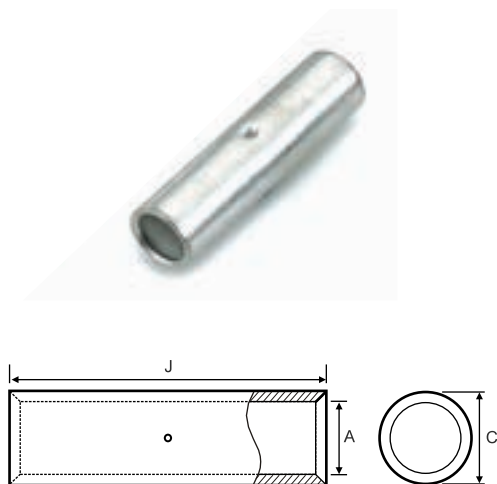
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm ± 3% |      |    |    |     | Product<br>Code |
|--------------------------|----------------|-----------------------|------|----|----|-----|-----------------|
|                          |                | A                     | C    | D  | B  | J   |                 |
| 120                      | 8.5            | 15                    | 19.4 | 28 | 24 | 63  | HNL 120-8       |
|                          | 10.5           | 15                    | 19.4 | 28 | 24 | 63  | HNL 120-10      |
|                          | 13             | 15                    | 19.4 | 28 | 24 | 63  | HNL 120-12      |
|                          | 15             | 15                    | 19.4 | 28 | 24 | 66  | HNL 120-14      |
|                          | 17             | 15                    | 19.4 | 28 | 24 | 66  | HNL 120-16      |
|                          | 21             | 15                    | 19.4 | 28 | 24 | 66  | HNL 120-20      |
| 150                      | 8.5            | 16.5                  | 21.2 | 30 | 30 | 69  | HNL 150-8       |
|                          | 10.5           | 16.5                  | 21.2 | 30 | 30 | 69  | HNL 150-10      |
|                          | 13             | 16.5                  | 21.2 | 30 | 30 | 72  | HNL 150-12      |
|                          | 15             | 16.5                  | 21.2 | 30 | 30 | 72  | HNL 150-14      |
|                          | 17             | 16.5                  | 21.2 | 30 | 30 | 72  | HNL 150-16      |
|                          | 21             | 16.5                  | 21.2 | 30 | 30 | 72  | HNL 150-20      |
| 185                      | 10.5           | 19                    | 23.5 | 34 | 30 | 81  | HNL 185-10      |
|                          | 13             | 19                    | 23.5 | 34 | 30 | 81  | HNL 185-12      |
|                          | 15             | 19                    | 23.5 | 34 | 30 | 81  | HNL 185-14      |
|                          | 17             | 19                    | 23.5 | 34 | 30 | 81  | HNL 185-16      |
|                          | 21             | 19                    | 23.5 | 34 | 30 | 89  | HNL 185-20      |
| 240                      | 10.5           | 21                    | 26.5 | 38 | 35 | 94  | HNL 240-10      |
|                          | 13             | 21                    | 26.5 | 38 | 35 | 94  | HNL 240-12      |
|                          | 15             | 21                    | 26.5 | 38 | 35 | 94  | HNL 240-14      |
|                          | 17             | 21                    | 26.5 | 38 | 35 | 94  | HNL 240-16      |
| 300                      | 13             | 23.5                  | 30   | 43 | 38 | 102 | HNL 300-12      |
|                          | 15             | 23.5                  | 30   | 43 | 38 | 102 | HNL 300-14      |
|                          | 17             | 23.5                  | 30   | 43 | 38 | 102 | HNL 300-16      |
|                          | 21             | 23.5                  | 30   | 43 | 38 | 102 | HNL 300-20      |
| 400                      | 17             | 27                    | 36.5 | 50 | 49 | 114 | HNL 400-16      |
|                          | 21             | 27                    | 36.5 | 50 | 49 | 114 | HNL 400-20      |
| 500                      | 17             | 30                    | 39   | 56 | 68 | 144 | HNL 500-16      |
|                          | 21             | 30                    | 39   | 56 | 68 | 144 | HNL 500-20      |
|                          | BL             | 30                    | 39   | 56 | 68 | 144 | HNL 500-BL      |
| 630                      | 17             | 35.5                  | 45   | 64 | 68 | 144 | HNL 630-16      |
|                          | 21             | 35.5                  | 45   | 64 | 68 | 144 | HNL 630-20      |
|                          | 10.5           | 35.5                  | 45   | 64 | 68 | 144 | HNL 630-4 E10   |
|                          | BL             | 35.5                  | 45   | 64 | 68 | 144 | HNL 630-BL      |



## COPPER CRIMPING CONNECTORS / SLEEVES

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm ± 3% |      |     | Product<br>Code |
|--------------------------|-----------------------|------|-----|-----------------|
|                          | A                     | C    | J   |                 |
| 1.5                      | 1.8                   | 3.7  | 25  | HNC -1.5        |
| 2.5                      | 2.4                   | 4    | 25  | HNC - 2.5       |
| 4                        | 3.1                   | 4.8  | 25  | HNC - 4         |
| 6                        | 3.8                   | 5.5  | 25  | HNC - 6         |
| 10                       | 4.5                   | 6.2  | 30  | HNC - 10        |
| 16                       | 5.4                   | 7.1  | 35  | HNC - 16        |
| 25                       | 6.8                   | 8.8  | 40  | HNC - 25        |
| 35                       | 8.2                   | 10.6 | 45  | HNC - 35        |
| 50                       | 9.5                   | 12   | 50  | HNC - 50        |
| 70                       | 11.3                  | 14.6 | 55  | HNC - 70        |
| 95                       | 13.5                  | 17   | 60  | HNC - 95        |
| 120                      | 15                    | 19.4 | 65  | HNC - 120       |
| 150                      | 16.5                  | 21.2 | 70  | HNC - 150       |
| 185                      | 19                    | 23.5 | 80  | HNC - 185       |
| 240                      | 21                    | 26.5 | 90  | HNC - 240       |
| 300                      | 23.5                  | 30   | 100 | HNC - 300       |
| 400                      | 27                    | 36.5 | 110 | HNC - 400       |
| 500                      | 30                    | 39   | 140 | HNC - 500       |
| 630                      | 35.5                  | 45   | 160 | HNC - 630       |
| 800                      | 39                    | 50.6 | 200 | HNC - 800       |
| 1000                     | 43                    | 56.2 | 200 | HNC - 1000      |



## LONG BARREL TINNED COPPER CABLE TERMINAL ENDS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |      |      |    |     | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|------|------|----|-----|-----------------|
|                          |                | A                         | C    | D    | G    | H    | B  | J   |                 |
| 6                        | 8.4            | 3.8                       | 5.5  | 12   | 6    | 9    | 11 | 29  | HTL 6 - 8       |
| 10                       | 8.4            | 4.5                       | 6.2  | 12   | 6    | 9    | 11 | 29  | HTL 10 - 8      |
| 16                       | 8.4            | 5.4                       | 7.1  | 12   | 7    | 7    | 15 | 35  | HTL 16 - 8      |
| 25                       | 8.4            | 6.8                       | 8.8  | 16   | 7    | 7    | 15 | 35  | HTL 25 - 8      |
| 35                       | 8.4            | 8.2                       | 10.6 | 15.3 | 9    | 9    | 15 | 38  | HTL 35 - 8      |
| 50                       | 13             | 9.5                       | 12.4 | 18   | 10   | 11   | 20 | 47  | HTL 50 - 12     |
| 70                       | 13             | 11.2                      | 14.7 | 21   | 12   | 13   | 22 | 54  | HTL 70 - 12     |
| 95                       | 13             | 13.5                      | 17.4 | 25   | 13   | 13   | 24 | 59  | HTL 95 - 12     |
| 120                      | 13             | 15                        | 19.4 | 28   | 14   | 14   | 27 | 65  | HTL 120 - 12    |
| 150                      | 13             | 16.5                      | 21.2 | 30   | 16   | 16   | 32 | 75  | HTL 150 - 12    |
| 185                      | 13             | 18.5                      | 23.5 | 34   | 17   | 17   | 39 | 85  | HTL 185 - 12    |
| 240                      | 17             | 21                        | 26.5 | 38   | 20   | 20   | 46 | 100 | HTL 240 - 16    |
| 300                      | 21             | 23.5                      | 30   | 43   | 22   | 22   | 51 | 110 | HTL 300 - 20    |
| 400                      | 21             | 28.5                      | 36.5 | 50.1 | 26   | 26   | 53 | 123 | HTL 400 - 20    |
| 500                      | 21             | 30                        | 39   | 56   | 28   | 28   | 58 | 134 | HTL 500 - 20    |
| 630                      | 21             | 35                        | 45   | 63.8 | 33   | 33   | 78 | 156 | HTL 630 - 20    |
| 800                      | 21             | 39                        | 50.6 | 72   | 37.5 | 37.5 | 95 | 187 | HTL 800 - 20    |

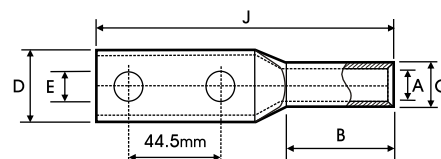
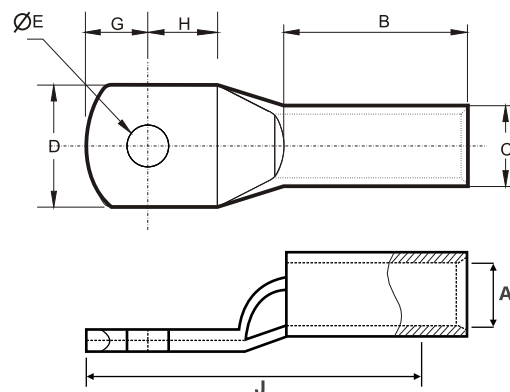
- Other hole size available on request.
- Also available without inspection hole

## COPPER CABLE TERMINAL ENDS WITH EXTENDED PALM ( 2 HOLE )

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |    |     | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|----|-----|-----------------|
|                          |                | A                         | C    | D    | B  | J   |                 |
| 16                       | 10.5           | 5.4                       | 7.6  | 14.5 | 16 | 100 | HT16 2E - 10    |
| 25                       | 10.5           | 6.8                       | 8.8  | 15   | 16 | 100 | HT25 2E - 10    |
| 35                       | 10.5           | 8.2                       | 10.6 | 16.5 | 16 | 100 | HT35 2E - 10    |
| 50                       | 10.5           | 9.5                       | 12.4 | 17   | 25 | 109 | HT50 2E - 10    |
|                          | 13.7           | 9.5                       | 12.4 | 17   | 25 | 109 | HT50 2E - 12    |
| 70                       | 10.5           | 11.3                      | 14.7 | 21   | 30 | 114 | HT70 2E - 10    |
|                          | 13.7           | 11.3                      | 14.7 | 21   | 30 | 114 | HT70 2E - 12    |
| 95                       | 10.5           | 13.5                      | 17.4 | 25   | 30 | 116 | HT95 2E - 10    |
|                          | 13.7           | 13.5                      | 17.4 | 25   | 30 | 116 | HT95 2E - 12    |
| 120                      | 10.5           | 15                        | 19.4 | 27.5 | 35 | 122 | HT120 2E - 10   |
|                          | 13.7           | 15                        | 19.4 | 27.5 | 35 | 122 | HT120 2E - 12   |
| 150                      | 10.5           | 16.5                      | 21.2 | 30   | 40 | 126 | HT150 2E - 10   |
|                          | 13.7           | 16.5                      | 21.2 | 30   | 40 | 126 | HT150 2E - 12   |
| 185                      | 10.5           | 18.5                      | 23.5 | 33.5 | 42 | 132 | HT185 2E - 10   |
|                          | 13.7           | 18.5                      | 23.5 | 33.5 | 42 | 132 | HT185 2E - 12   |
| 240                      | 10.5           | 21                        | 26.5 | 38.5 | 50 | 143 | HT240 2E - 10   |
|                          | 13.7           | 21                        | 26.5 | 38.5 | 50 | 143 | HT240 2E - 12   |
| 300                      | 13.7           | 23.5                      | 30   | 43   | 55 | 144 | HT300 2E - 12   |
| 400                      | 13.7           | 28.5                      | 36.5 | 52.5 | 60 | 149 | HT400 2E - 12   |
| 500                      | 13.7           | 30                        | 39   | 56   | 65 | 160 | HT500 2E - 12   |
| 630                      | 13.7           | 35                        | 45   | 63.8 | 75 | 160 | HT630 2E - 12   |
| 800                      | 13.7           | 39                        | 50.6 | 72   | 78 | 214 | HT800 2E - 12   |
| 1000                     | 13.7           | 43                        | 56.2 | 78.5 | 90 | 244 | HT1000 2E - 12  |

- Also available with Blank Palm (without hole)
- Also available with inspection hole.

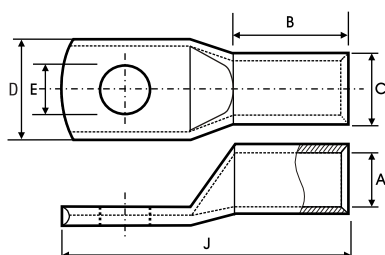




## HIGH VOLTAGE COPPER TERMINALS - 33 KV

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

- These terminals are designed for high voltage applications upto 33 KV.
- They are manufactured from high purity Copper tube, annealed & Tin plated.
- The extended barrel enhances both electrical and mechanical performance.
- The absence of an inspection hole to prevent moisture entry into the crimped joint makes these terminals suitable for outdoor applications.

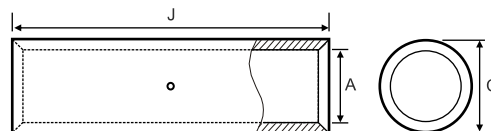


| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |      |      |       | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|------|------|-------|-----------------|
|                          |                | A                         | C    | D    | G    | H    | J     |                 |
| 25                       | 8              | 6.8                       | 10.0 | 14.0 | 8.0  | 9.0  | 65.0  | HVCT 25 - 8     |
|                          | 10             | 6.8                       | 10.0 | 18.0 | 11.0 | 13.0 | 72.0  | HVCT 25 - 10    |
|                          | 12             | 6.8                       | 10.0 | 21.0 | 14.0 | 16.0 | 78.0  | HVCT 25 - 12    |
| 35                       | 12             | 8.2                       | 12.5 | 17.0 | 14.0 | 16.0 | 79.0  | HVCT 35 - 12    |
|                          | 16             | 8.2                       | 12.5 | 26.0 | 17.0 | 19.0 | 85.0  | HVCT 35 - 16    |
| 50                       | 12             | 9.5                       | 14.5 | 20.0 | 14.0 | 16.0 | 79.0  | HVCT 50 - 12    |
|                          | 16             | 9.5                       | 14.5 | 26.0 | 17.0 | 19.0 | 85.0  | HVCT 50 - 16    |
| 70                       | 12             | 11.0                      | 16.0 | 22.0 | 14.0 | 16.0 | 81.0  | HVCT 70 - 12    |
|                          | 16             | 11.0                      | 16.0 | 30.0 | 17.0 | 19.0 | 87.0  | HVCT 70 - 16    |
| 95                       | 12             | 13.5                      | 19.0 | 26.0 | 14.0 | 16.0 | 91.0  | HVCT 95 - 12    |
|                          | 14             | 13.5                      | 19.0 | 29.0 | 16.0 | 18.0 | 95.0  | HVCT 95 - 14    |
|                          | 16             | 13.5                      | 19.0 | 30.0 | 17.0 | 20.0 | 97.0  | HVCT 95 - 16    |
| 120                      | 12             | 15.0                      | 20.5 | 29.0 | 14.0 | 16.0 | 97.0  | HVCT 120 - 12   |
|                          | 14             | 15.0                      | 20.5 | 29.0 | 16.0 | 18.0 | 101.0 | HVCT 120 - 14   |
| 150                      | 12             | 16.5                      | 23.0 | 32.0 | 14.0 | 16.0 | 97.0  | HVCT 150 - 12   |
|                          | 14             | 16.5                      | 23.0 | 32.0 | 16.0 | 18.0 | 101.0 | HVCT 150 - 14   |
| 185                      | 14             | 17.0                      | 23.5 | 33.0 | 16.0 | 18.0 | 101.0 | HVCT 185 - 14   |
| 240                      | 14             | 19.2                      | 25.5 | 36.0 | 16.0 | 18.0 | 105.0 | HVCT 240 - 14   |
| 300                      | 14             | 23.5                      | 32.0 | 45.0 | 16.0 | 18.0 | 105.0 | HVCT 300 - 14   |
| 400                      | 14             | 27.0                      | 38.0 | 53.0 | 19.0 | 22.0 | 140.0 | HVCT 400 - 14   |
|                          | 16             | 27.0                      | 38.0 | 53.0 | 19.0 | 22.0 | 140.0 | HVCT 400 - 16   |
|                          | 20             | 27.0                      | 38.0 | 53.0 | 23.0 | 24.0 | 146.0 | HVCT 400 - 20   |
| 500                      | 16             | 30.3                      | 41.0 | 58.0 | 19.0 | 22.0 | 147.0 | HVCT 500 - 16   |
|                          | 20             | 30.3                      | 41.0 | 58.0 | 23.0 | 24.0 | 153.0 | HVCT 500 - 20   |
| 630                      | 16             | 33.4                      | 43.0 | 62.0 | 19.0 | 22.0 | 159.0 | HVCT 630 - 16   |
|                          | 20             | 33.4                      | 43.0 | 62.0 | 23.0 | 24.0 | 165.0 | HVCT 630 - 20   |

## HIGH VOLTAGE COPPER CONNECTORS - 33KV

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

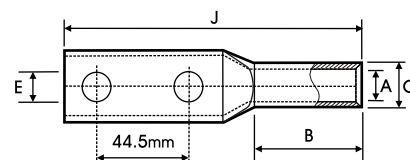
| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |       |        | Product<br>Code |
|--------------------------|---------------------------|-------|--------|-----------------|
|                          | A                         | C     | J      |                 |
| 50                       | 9.50                      | 14.50 | 85.00  | HVCC - 50       |
| 70                       | 11.00                     | 16.00 | 87.00  | HVCC - 70       |
| 95                       | 13.50                     | 19.00 | 97.00  | HVCC - 95       |
| 120                      | 15.00                     | 20.50 | 101.00 | HVCC - 120      |
| 150                      | 16.50                     | 23.00 | 101.00 | HVCC - 150      |
| 185                      | 17.00                     | 23.50 | 101.00 | HVCC - 185      |
| 240                      | 19.20                     | 25.50 | 105.00 | HVCC - 240      |
| 300                      | 23.50                     | 32.00 | 105.00 | HVCC - 300      |
| 400                      | 27.00                     | 38.00 | 146.00 | HVCC - 400      |
| 500                      | 30.30                     | 41.00 | 153.00 | HVCC - 500      |
| 630                      | 33.40                     | 43.00 | 165.00 | HVCC - 630      |



## HIGH VOLTAGE COPPER TERMINALS DOUBLE HOLE - 33 KV

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |      |       |        | Product<br>Code |
|--------------------------|---------------------------|------|------|-------|--------|-----------------|
|                          | E                         | A    | C    | B     | J      |                 |
| 25                       | 10.5                      | 6.8  | 10.0 | 38.00 | 123.00 | HVCT - 25 2E10  |
| 35                       | 10.5                      | 8.2  | 12.5 | 37.00 | 124.00 | HVCT - 35 2E10  |
| 50                       | 13.0                      | 9.5  | 14.5 | 34.00 | 124.00 | HVCT - 50 2E12  |
| 70                       | 13.0                      | 11.0 | 16.0 | 36.00 | 126.00 | HVCT - 70 2E12  |
| 95                       | 13.0                      | 13.5 | 19.0 | 46.00 | 138.50 | HVCT - 95 2E12  |
| 120                      | 13.0                      | 15.0 | 20.5 | 52.00 | 144.50 | HVCT - 120 2E12 |
| 150                      | 13.0                      | 16.5 | 23.0 | 49.00 | 144.50 | HVCT - 150 2E12 |
| 185                      | 15.0                      | 17.0 | 23.5 | 49.00 | 148.50 | HVCT - 185 2E14 |
| 240                      | 15.0                      | 19.2 | 25.5 | 53.00 | 152.50 | HVCT - 240 2E14 |
| 300                      | 17.0                      | 23.5 | 32.0 | 46.00 | 154.50 | HVCT - 300 2E16 |
| 400                      | 17.0                      | 27.0 | 38.0 | 69.00 | 182.50 | HVCT - 400 2E16 |
| 500                      | 21.0                      | 30.3 | 41.0 | 76.00 | 194.50 | HVCT - 500 2E20 |
| 630                      | 21.0                      | 33.4 | 43.0 | 88.00 | 206.50 | HVCT - 630 2E20 |



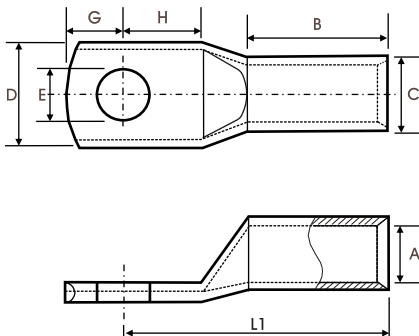
## SPECIAL CABLE TERMINAL ENDS

We have specially developed these terminals for supplying it to leading manufacturers of Panel Builders, Distribution Boards, Transformers, Railways, Power Stations, etc. HEX has all the expertise needed in developing & manufacturing special types of terminal ends as per customers design & specifications.



# TUBULAR COMPRESSION COPPER CABLE LUGS UP TO 33KV

MATERIAL : E - COPPER • FINISH : UNCOATED / ELECTRO TINNED

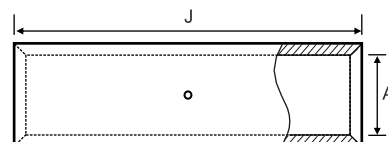


| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |     |      |      |      |      | Product<br>Code |
|--------------------------|----------------|---------------------------|------|-----|------|------|------|------|-----------------|
|                          |                | D                         | A    | B   | C    | G    | H    | L1   |                 |
| 6                        | 5.3            | 8                         | 3.8  | 11  | 5.5  | 6.5  | 7.5  | 24   | HUTD 6 - 5      |
| 10                       | 6.5            | 8.5                       | 4.5  | 13  | 6    | 7    | 8.5  | 27.5 | HUTD 10 - 6     |
| 16                       | 6.5            | 12                        | 5.5  | 16  | 8.5  | 7.5  | 8    | 35   | HUTD 16 - 6     |
|                          | 8.4            | 15                        | 5.5  | 16  | 8.5  | 10   | 10   | 35   | HUTD 16 - 8     |
|                          | 10.5           | 17                        | 5.5  | 16  | 8.5  | 12   | 12   | 37   | HUTD 16 - 10    |
|                          | 13             | 19                        | 5.5  | 16  | 8.5  | 13   | 13   | 37   | HUTD 16 - 12    |
| 25                       | 6.5            | 15                        | 7    | 18  | 10   | 7.5  | 8    | 39   | HUTD 25 - 6     |
|                          | 8.4            | 15                        | 7    | 18  | 10   | 10   | 10   | 39   | HUTD 25 - 8     |
|                          | 10.5           | 17                        | 7    | 18  | 10   | 12   | 12   | 39   | HUTD 25 - 10    |
|                          | 13             | 19                        | 7    | 18  | 10   | 13   | 13   | 39   | HUTD 25 - 12    |
| 35                       | 8.4            | 17                        | 8.2  | 19  | 12.5 | 10   | 10   | 42   | HUTD 35 - 8     |
|                          | 10.5           | 19                        | 8.2  | 19  | 12.5 | 12   | 12   | 42   | HUTD 35 - 10    |
|                          | 13             | 21                        | 8.2  | 19  | 12.5 | 13   | 13   | 42   | HUTD 35 - 12    |
| 50                       | 8.4            | 22                        | 10   | 25  | 14.5 | 10   | 10   | 51   | HUTD 50 - 8     |
|                          | 10.5           | 22                        | 10   | 25  | 14.5 | 12   | 12   | 51   | HUTD 50 - 10    |
|                          | 13             | 23                        | 10   | 25  | 14.5 | 13   | 13   | 51   | HUTD 50 - 12    |
|                          | 17             | 28                        | 10   | 25  | 14.5 | 14   | 14   | 51   | HUTD 50 - 16    |
| 70                       | 10.5           | 22.5                      | 11.5 | 25  | 16.5 | 10   | 10   | 54   | HUTD 70 - 10    |
|                          | 13             | 22.5                      | 11.5 | 25  | 16.5 | 12   | 12   | 54   | HUTD 70 - 12    |
|                          | 17             | 22.5                      | 11.5 | 25  | 16.5 | 13   | 13   | 54   | HUTD 70 - 16    |
|                          | 21             | 32                        | 11.5 | 25  | 16.5 | 14.5 | 14.5 | 54   | HUTD 70 - 20    |
| 95                       | 10.5           | 26.5                      | 13.5 | 30  | 19   | 12   | 12   | 64   | HUTD 95 - 10    |
|                          | 13             | 26.5                      | 13.5 | 30  | 19   | 13   | 13   | 64   | HUTD 95 - 12    |
|                          | 17             | 26.5                      | 13.5 | 30  | 19   | 14   | 14   | 67   | HUTD 95 - 16    |
|                          | 21             | 32                        | 13.5 | 30  | 19   | 17   | 17   | 67   | HUTD 95 - 20    |
| 120                      | 10.5           | 30                        | 15.5 | 36  | 21   | 16   | 16   | 68   | HUTD 120 - 10   |
|                          | 13             | 30                        | 15.5 | 36  | 21   | 16   | 16   | 68   | HUTD 120 - 12   |
|                          | 17             | 30                        | 15.5 | 36  | 21   | 18   | 20   | 69   | HUTD 120 - 16   |
|                          | 21             | 30                        | 15.5 | 36  | 21   | 18   | 20   | 69   | HUTD 120 - 20   |
| 150                      | 10.5           | 33                        | 17   | 43  | 23.5 | 16   | 16   | 77   | HUTD 150 - 10   |
|                          | 13             | 33                        | 17   | 43  | 23.5 | 16   | 16   | 77   | HUTD 150 - 12   |
|                          | 17             | 33                        | 17   | 43  | 23.5 | 18   | 20   | 77   | HUTD 150 - 16   |
|                          | 21             | 33                        | 17   | 43  | 23.5 | 18   | 20   | 77   | HUTD 150 - 20   |
| 185                      | 10.5           | 36                        | 19   | 43  | 25.5 | 16   | 16   | 81   | HUTD 185 - 10   |
|                          | 13             | 36                        | 19   | 43  | 25.5 | 16   | 16   | 81   | HUTD 185 - 12   |
|                          | 17             | 36                        | 19   | 43  | 25.5 | 19   | 20   | 81   | HUTD 185 - 16   |
|                          | 21             | 36                        | 19   | 43  | 25.5 | 18   | 20   | 81   | HUTD 185 - 20   |
| 240                      | 10.5           | 41                        | 21.5 | 48  | 29   | 19   | 20   | 91   | HUTD 240 - 10   |
|                          | 13             | 41                        | 21.5 | 48  | 29   | 19   | 20   | 91   | HUTD 240 - 12   |
|                          | 17             | 41                        | 21.5 | 48  | 29   | 19   | 20   | 91   | HUTD 240 - 16   |
|                          | 21             | 41                        | 21.5 | 48  | 29   | 22   | 22   | 91   | HUTD 240 - 20   |
| 300                      | 13             | 45.5                      | 24   | 56  | 32   | 19   | 22   | 100  | HUTD 300 - 12   |
|                          | 17             | 45.5                      | 24   | 56  | 32   | 19   | 22   | 100  | HUTD 300 - 16   |
|                          | 21             | 45.5                      | 24   | 56  | 32   | 22   | 22   | 100  | HUTD 300 - 20   |
| 400                      | 17             | 54                        | 27.5 | 63  | 38.5 | 25   | 25   | 115  | HUTD 400 - 16   |
|                          | 21             | 54                        | 27.5 | 63  | 38.5 | 25   | 25   | 115  | HUTD 400 - 20   |
| 500                      | 21             | 59                        | 31   | 75  | 42   | 25   | 25   | 127  | HUTD 500 - 20   |
| 630                      | 21             | 63                        | 34.5 | 80  | 44   | 25   | 25   | 135  | HUTD 630 - 20   |
| 800                      | 21             | 75                        | 40   | 103 | 52   | 30   | 30   | 165  | HUTD 800 - 20   |
| 1000                     | 21             | 83                        | 44   | 103 | 58   | 30   | 30   | 165  | HUTD 1000-20    |

## TUBULAR COMPRESSION COPPER CONNECTORS LONG BARREL UP TO 33KV

MATERIAL : E - COPPER • FINISH : UNCOATED / ELECTRO TINNED

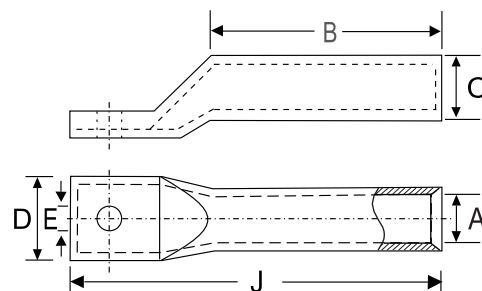
| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |       |        | Product<br>Code |
|--------------------------|---------------------------|-------|--------|-----------------|
|                          | A                         | C     | J      |                 |
| 25                       | 7.00                      | 10.00 | 50.00  | HUTD-C - 25     |
| 35                       | 8.20                      | 12.50 | 60.00  | HUTD-C - 35     |
| 50                       | 10.00                     | 14.50 | 65.00  | HUTD-C - 50     |
| 70                       | 11.50                     | 16.50 | 65.00  | HUTD-C - 70     |
| 95                       | 13.50                     | 19.00 | 90.00  | HUTD-C - 95     |
| 120                      | 15.50                     | 21.00 | 90.00  | HUTD-C - 120    |
| 150                      | 17.00                     | 23.50 | 105.00 | HUTD-C - 150    |
| 185                      | 19.00                     | 23.50 | 105.00 | HUTD-C - 185    |
| 240                      | 21.50                     | 29.00 | 125.00 | HUTD-C - 240    |
| 300                      | 24.00                     | 32.00 | 125.00 | HUTD-C - 300    |
| 400                      | 27.50                     | 38.50 | 160.00 | HUTD-C - 400    |
| 500                      | 31.00                     | 42.00 | 160.00 | HUTD-C - 500    |
| 630                      | 34.50                     | 44.00 | 180.00 | HUTD-C - 630    |
| 800                      | 40.00                     | 52.00 | 200.00 | HUTD-C - 800    |
| 1000                     | 44.00                     | 58.00 | 200.00 | HUTD-C - 1000   |



## CRIMPING TYPE HEAVY DUTY LONG BARREL ALUMINIUM TERMINAL ENDS for XLPE CABLE

MATERIAL : ALUMINIUM • FINISH : NATURAL / PASSIVATED AL.

| Cable<br>mm <sup>2</sup> | Hole<br>E | Dimensions in mm $\pm$ 3% |      |      |     |     | Product<br>Code |
|--------------------------|-----------|---------------------------|------|------|-----|-----|-----------------|
|                          |           | A                         | C    | D    | B   | J   |                 |
| 25                       | 8.2       | 7.2                       | 9.6  | 14.0 | 41  | 69  | HAC - 25        |
| 35                       | 8.2       | 8.3                       | 11.1 | 16.0 | 50  | 79  | HAC - 35        |
| 50                       | 10.2      | 10.1                      | 13.5 | 19.5 | 49  | 81  | HAC - 50        |
| 70                       | 10.2      | 10.2                      | 14.5 | 20.5 | 62  | 96  | HAC - 70        |
| 95                       | 13        | 12.0                      | 16.9 | 23.5 | 73  | 109 | HAC - 95        |
| 120                      | 13        | 13.7                      | 19.0 | 26.5 | 73  | 114 | HAC - 120       |
| 150                      | 13        | 15.1                      | 21.1 | 29.5 | 83  | 128 | HAC - 150       |
| 185                      | 13        | 16.6                      | 23.9 | 33.0 | 83  | 131 | HAC - 185       |
| 225                      | 13        | 18.6                      | 26.1 | 36.0 | 86  | 140 | HAC - 225       |
| 240                      | 13        | 19.3                      | 27.2 | 37.5 | 86  | 144 | HAC - 240       |
| 300                      | 20.30     | 21.8                      | 30.2 | 42.0 | 89  | 157 | HAC - 300       |
| 400                      | 20.30     | 25.0                      | 34.8 | 48.0 | 113 | 187 | HAC - 400       |
| 500                      | 20.30     | 28.2                      | 39.1 | 54.0 | 125 | 205 | HAC - 500       |
| 630                      | 20.30     | 31.7                      | 44.4 | 61.0 | 140 | 225 | HAC - 625       |
| 800                      | 20.30     | 35.7                      | 49.5 | 68.0 | 147 | 250 | HAC - 800       |
| 1000                     | 20.30     | 41.0                      | 56.0 | 77.5 | 160 | 280 | HAC - 1000      |

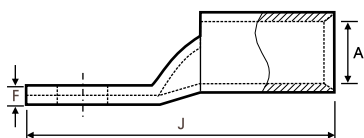
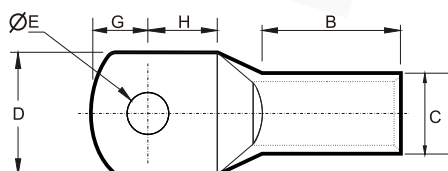


\* PVC Capping & Greasing available on request

\* Other Hole sizes also available on request

## CABLE TERMINAL ENDS AS PER AUSTRALIAN STANDARD

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED



| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm ± 3% |      |     |     |    |    |      | Product<br>Code |
|--------------------------|----------------|-----------------------|------|-----|-----|----|----|------|-----------------|
|                          |                | A                     | D    | F   | B   | G  | H  | J    |                 |
| 1.5                      | 4.2            | 2                     | 8    | 1.0 | 7.5 | 4  | 5  | 18.5 | HAHT - 1.5-4    |
| 1.5                      | 5.2            | 2                     | 8    | 1.0 | 7.5 | 4  | 5  | 18.5 | HAHT - 1.5-5    |
| 1.5                      | 6.5            | 2                     | 10   | 0.8 | 7.5 | 5  | 6  | 20.5 | HAHT - 1.5-6    |
| 2.5                      | 4.2            | 2.5                   | 8    | 1.0 | 8   | 4  | 5  | 19   | HAHT - 2.5-4    |
| 2.5                      | 5.2            | 2.5                   | 10   | 0.8 | 8   | 5  | 6  | 21   | HAHT - 2.5-5    |
| 2.5                      | 6.5            | 2.5                   | 10   | 0.8 | 8   | 5  | 6  | 21   | HAHT - 2.5-6    |
| 2.5                      | 8.4            | 2.5                   | 11   | 0.7 | 8   | 6  | 9  | 26   | HAHT - 2.5-8    |
| 4                        | 5.2            | 3.3                   | 10   | 1.0 | 9   | 5  | 6  | 23   | HAHT - 4-5      |
| 4                        | 6.5            | 3.3                   | 10   | 1.0 | 9   | 5  | 6  | 23   | HAHT - 4-6      |
| 4                        | 8.4            | 3.3                   | 12   | 0.8 | 9   | 6  | 9  | 26   | HAHT - 4-8      |
| 4                        | 10.2           | 3.3                   | 15   | 0.8 | 9   | 8  | 11 | 32   | HAHT - 4-10     |
| 6                        | 5.2            | 3.8                   | 10   | 1.2 | 10  | 5  | 6  | 24   | HAHT - 6-5      |
| 6                        | 6.5            | 3.8                   | 12   | 1.0 | 10  | 6  | 9  | 28   | HAHT - 6-6      |
| 6                        | 8.4            | 3.8                   | 12   | 1.0 | 10  | 6  | 9  | 28   | HAHT - 6-8      |
| 6                        | 10.2           | 3.8                   | 15   | 0.8 | 10  | 8  | 11 | 32   | HAHT - 6-10     |
| 10                       | 5.2            | 4.7                   | 12   | 1.8 | 10  | 6  | 7  | 27   | HAHT - 10-5     |
| 10                       | 6.5            | 4.7                   | 12   | 1.8 | 10  | 6  | 7  | 27   | HAHT - 10-6     |
| 10                       | 8.4            | 4.7                   | 14   | 1.6 | 10  | 7  | 8  | 29   | HAHT - 10-8     |
| 10                       | 10.5           | 4.7                   | 15   | 1.5 | 10  | 8  | 10 | 32   | HAHT - 10-10    |
| 10                       | 13             | 4.7                   | 18   | 1.0 | 10  | 10 | 12 | 38   | HAHT - 10-12    |
| 16                       | 6.5            | 5.5                   | 11   | 2.4 | 19  | 7  | 9  | 39   | HAHT - 16-6     |
| 16                       | 8.4            | 5.5                   | 14   | 1.7 | 19  | 7  | 9  | 39   | HAHT - 16-8     |
| 16                       | 10.5           | 5.5                   | 16   | 1.5 | 19  | 8  | 10 | 41   | HAHT - 16-10    |
| 16                       | 13             | 5.5                   | 18   | 1.2 | 19  | 10 | 13 | 48   | HAHT - 16-12    |
| 25                       | 6.5            | 7.1                   | 13.5 | 2.4 | 21  | 7  | 9  | 41   | HAHT - 25-6     |
| 25                       | 8.4            | 7.1                   | 13.5 | 2.4 | 21  | 7  | 9  | 41   | HAHT - 25-8     |
| 25                       | 10.5           | 7.1                   | 16   | 1.9 | 21  | 9  | 10 | 44   | HAHT - 25-10    |
| 25                       | 13             | 7.1                   | 18   | 1.6 | 21  | 10 | 13 | 48   | HAHT - 25-12    |
| 35                       | 6.5            | 8.4                   | 16   | 3.0 | 21  | 9  | 10 | 45   | HAHT - 35-6     |
| 35                       | 8.4            | 8.4                   | 16   | 3.0 | 21  | 9  | 10 | 45   | HAHT - 35-8     |
| 35                       | 10.5           | 8.4                   | 18   | 2.6 | 21  | 9  | 10 | 45   | HAHT - 35-10    |
| 35                       | 13             | 8.4                   | 20   | 2.2 | 22  | 11 | 13 | 51   | HAHT - 35-12    |
| 50                       | 6.5            | 9.5                   | 18   | 3.3 | 22  | 8  | 10 | 46   | HAHT - 50-6     |
| 50                       | 8.4            | 9.5                   | 18   | 3.3 | 22  | 8  | 10 | 46   | HAHT - 50-8     |
| 50                       | 10.5           | 9.5                   | 18   | 3.3 | 22  | 8  | 10 | 46   | HAHT - 50-10    |
| 50                       | 13             | 9.5                   | 21   | 2.7 | 22  | 11 | 13 | 54   | HAHT - 50-12    |
| 70                       | 6.5            | 11.3                  | 21   | 3.5 | 22  | 11 | 13 | 54   | HAHT - 70-6     |
| 70                       | 8.4            | 11.3                  | 21   | 3.5 | 24  | 11 | 13 | 54   | HAHT - 70-8     |
| 70                       | 10.5           | 11.3                  | 21   | 3.5 | 24  | 11 | 13 | 54   | HAHT - 70-10    |
| 70                       | 13             | 11.3                  | 21   | 3.5 | 24  | 11 | 13 | 54   | HAHT - 70-12    |
| 70                       | 17             | 11.3                  | 26   | 3.0 | 24  | 14 | 16 | 61   | HAHT - 70-16    |
| 95                       | 8.4            | 13.5                  | 25   | 4.0 | 26  | 12 | 15 | 60   | HAHT - 95-8     |
| 95                       | 10.5           | 13.5                  | 25   | 4.0 | 26  | 12 | 15 | 60   | HAHT - 95-10    |
| 95                       | 13             | 13.5                  | 25   | 4.0 | 26  | 12 | 15 | 60   | HAHT - 95-12    |
| 95                       | 17             | 13.5                  | 25   | 3.5 | 26  | 14 | 16 | 64   | HAHT - 95-16    |
| 120                      | 8.4            | 15.6                  | 29   | 5.0 | 30  | 12 | 14 | 64   | HAHT - 120-8    |
| 120                      | 10.5           | 15.6                  | 29   | 5.0 | 30  | 12 | 14 | 64   | HAHT - 120-10   |
| 120                      | 13             | 15.6                  | 29   | 5.0 | 30  | 12 | 14 | 64   | HAHT - 120-12   |
| 120                      | 17             | 15.6                  | 29   | 5.0 | 30  | 16 | 16 | 72   | HAHT - 120-16   |

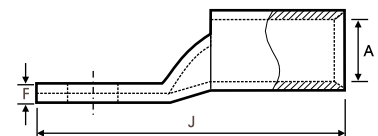
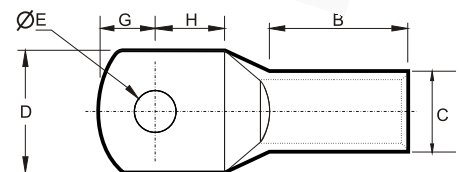
## CABLE TERMINAL ENDS AS PER AUSTRALIAN STANDARD

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |    |    |      |     | Product<br>Code |        |
|--------------------------|----------------|---------------------------|------|------|----|----|------|-----|-----------------|--------|
|                          |                | A                         | D    | F    | B  | G  | H    | J   |                 |        |
| 150                      | 10.5           | 16.7                      | 31.5 | 5.8  | 30 | 16 | 16   | 71  | HAHT            | 150-10 |
| 150                      | 13             | 16.7                      | 31.5 | 5.8  | 30 | 18 | 18   | 75  | HAHT            | 150-12 |
| 150                      | 17             | 16.7                      | 31.5 | 5.8  | 30 | 18 | 18   | 75  | HAHT            | 150-16 |
| 185                      | 10.5           | 18.4                      | 34.5 | 5.8  | 32 | 16 | 16   | 74  | HAHT            | 185-10 |
| 185                      | 13             | 18.4                      | 34.5 | 5.8  | 32 | 18 | 20.5 | 80  | HAHT            | 185-12 |
| 185                      | 17             | 18.4                      | 34.5 | 5.8  | 32 | 18 | 20.5 | 80  | HAHT            | 185-16 |
| 240                      | -              | 21.2                      | 40   | 7.0  | 38 | 21 | 21   | 94  | HAHT            | 240-BL |
| 240                      | 10.5           | 21.2                      | 40   | 7.0  | 38 | 21 | 21   | 94  | HAHT            | 240-10 |
| 240                      | 13             | 21.2                      | 40   | 7.0  | 38 | 21 | 21   | 94  | HAHT            | 240-12 |
| 240                      | 17             | 21.2                      | 40   | 7.0  | 38 | 21 | 21   | 94  | HAHT            | 240-16 |
| 300                      | -              | 23.8                      | 45.5 | 7.8  | 42 | 23 | 23   | 101 | HAHT            | 300-BL |
| 300                      | 13             | 23.8                      | 45.5 | 7.8  | 42 | 23 | 23   | 101 | HAHT            | 300-12 |
| 300                      | 17             | 23.8                      | 45.5 | 7.8  | 42 | 23 | 23   | 101 | HAHT            | 300-16 |
| **400                    | -              | 26.8                      | 49.5 | 8.0  | 44 | 24 | 24   | 110 | HAHT            | 400-BL |
| **500                    | -              | 30.0                      | 54.5 | 8.1  | 50 | 27 | 27   | 121 | HAHT            | 500-BL |
| **630                    | -              | 34.0                      | 62.5 | 11.0 | 58 | 32 | 32   | 140 | HAHT            | 630-BL |

\* Bell Mouthed Lugs start from 10 mm<sup>2</sup> & are up to 300 mm<sup>2</sup>

\*\* Bell Mouthed Lugs are available on request. Add "B" before the Product Code.

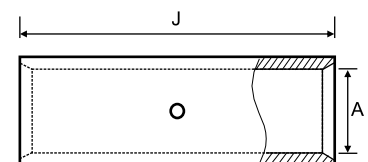


## CONNECTOR AS PER AUSTRALIAN STANDARD

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |       | Product<br>Code |
|--------------------------|---------------------------|-------|-----------------|
|                          | A                         | J     |                 |
| 2.5                      | 2.50                      | 22.2  | HAHC - 2.5      |
| 4                        | 3.30                      | 22.2  | HAHC - 4        |
| 6                        | 3.80                      | 22.2  | HAHC - 6        |
| 10                       | 4.70                      | 22.2  | HAHC - 10       |
| 16                       | 5.50                      | 44.4  | HAHC - 16       |
| 25                       | 7.10                      | 47.6  | HAHC - 25       |
| 35                       | 8.40                      | 47.6  | HAHC - 35       |
| 50                       | 9.500                     | 47.6  | HAHC - 50       |
| 70                       | 11.30                     | 50.8  | HAHC - 70       |
| 95                       | 13.40                     | 54.0  | HAHC - 95       |
| 120                      | 15.50                     | 65.1  | HAHC - 120      |
| 150                      | 16.30                     | 65.1  | HAHC - 150      |
| 185                      | 18.40                     | 65.1  | HAHC - 185      |
| 240                      | 21.20                     | 88.9  | HAHC - 240      |
| 300                      | 23.80                     | 88.9  | HAHC - 300      |
| ** 400                   | 26.80                     | 88.9  | HAHC - 400      |
| ** 500                   | 30.00                     | 114.3 | HAHC - 500      |
| ** 630                   | 34.00                     | 114.3 | HAHC - 630      |

\* Bell Mouthed Connectors start from 10 mm<sup>2</sup> & are up to 300 mm<sup>2</sup>

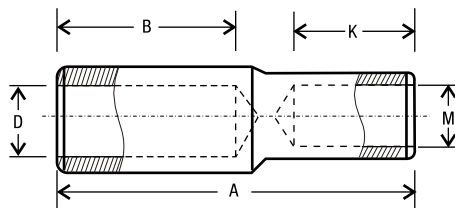
\*\* Bell Mouthed Connectors are available on request. Add "B" before the Product Code.





## TINNED COPPER REDUCING LINKS

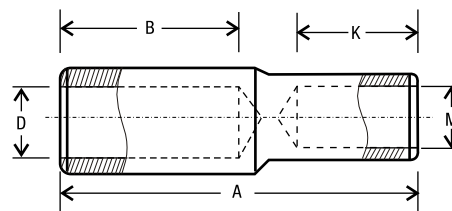
MATERIAL : E - COPPER • FINISH : ELECTRO TINNED



| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |    |      |    |      | Product<br>Code |
|--------------------------|---------------------------|----|------|----|------|-----------------|
|                          | A                         | B  | D    | K  | M    |                 |
| 6                        | 30                        | 10 | 4    | 10 | 3.0  | HCRL 6-4        |
| 10                       | 30                        | 10 | 4.5  | 10 | 4.0  | HCRL 10-6       |
| 16                       | 40                        | 19 | 5.5  | 10 | 4.0  | HCRL 16-6       |
|                          | 40                        | 19 | 5.5  | 10 | 4.5  | HCRL 16-10      |
| 25                       | 40                        | 21 | 7.5  | 10 | 4.0  | HCRL 25-6       |
|                          | 40                        | 21 | 7.5  | 10 | 4.5  | HCRL 25-10      |
|                          | 50                        | 21 | 7.5  | 19 | 5.5  | HCRL 25-16      |
| 35                       | 40                        | 21 | 8.5  | 10 | 4.5  | HCRL 35-10      |
|                          | 55                        | 21 | 8.5  | 19 | 5.5  | HCRL 35-16      |
|                          | 60                        | 21 | 8.5  | 21 | 7.5  | HCRL 35-25      |
| 50                       | 45                        | 22 | 9.5  | 10 | 4.5  | HCRL 50-10      |
|                          | 55                        | 22 | 9.5  | 19 | 5.5  | HCRL 50-16      |
|                          | 55                        | 22 | 9.5  | 21 | 7.5  | HCRL 50-25      |
|                          | 60                        | 22 | 9.5  | 21 | 8.5  | HCRL 50-35      |
| 70                       | 60                        | 24 | 11.5 | 19 | 5.5  | HCRL 70-16      |
|                          | 60                        | 24 | 11.5 | 21 | 7.5  | HCRL 70-25      |
|                          | 65                        | 24 | 11.5 | 21 | 8.5  | HCRL 70-35      |
|                          | 65                        | 24 | 11.5 | 22 | 9.5  | HCRL 70-50      |
| 95                       | 65                        | 27 | 13.5 | 21 | 7.5  | HCRL 95-25      |
|                          | 65                        | 27 | 13.5 | 21 | 8.5  | HCRL 95-25      |
|                          | 70                        | 27 | 13.5 | 22 | 9.6  | HCRL 95-50      |
|                          | 70                        | 27 | 13.5 | 24 | 11.5 | HCRL 95-70      |
| 120                      | 70                        | 30 | 15.5 | 21 | 8.5  | HCRL 120-35     |
|                          | 70                        | 30 | 15.5 | 22 | 9.5  | HCRL 120-50     |
|                          | 75                        | 30 | 15.5 | 24 | 11.5 | HCRL 120-70     |
|                          | 75                        | 30 | 15.5 | 27 | 13.5 | HCRL 120-95     |
| 150                      | 70                        | 30 | 16.5 | 22 | 9.5  | HCRL 150-50     |
|                          | 75                        | 30 | 16.5 | 24 | 11.5 | HCRL 150-70     |
|                          | 80                        | 30 | 16.5 | 27 | 13.5 | HCRL 150-95     |
|                          | 80                        | 30 | 16.5 | 30 | 15.5 | HCRL 150-120    |
| 185                      | 75                        | 32 | 18.5 | 24 | 11.5 | HCRL 185-70     |
|                          | 80                        | 32 | 18.5 | 27 | 13.5 | HCRL 185-95     |
|                          | 85                        | 32 | 18.5 | 30 | 15.5 | HCRL 185-120    |
|                          | 85                        | 32 | 18.5 | 30 | 16.5 | HCRL 185-150    |
| 240                      | 85                        | 38 | 21.5 | 27 | 13.5 | HCRL 240-95     |
|                          | 90                        | 38 | 21.5 | 30 | 15.5 | HCRL 240-120    |
|                          | 90                        | 38 | 21.5 | 30 | 16.5 | HCRL 240-150    |
|                          | 95                        | 38 | 21.5 | 32 | 18.5 | HCRL 240-185    |
| 300                      | 95                        | 42 | 23.5 | 30 | 15.5 | HCRL 300-120    |
|                          | 95                        | 42 | 23.5 | 30 | 16.5 | HCRL 300-150    |
|                          | 100                       | 42 | 23.5 | 32 | 18.5 | HCRL 300-185    |
|                          | 105                       | 42 | 23.5 | 38 | 21.5 | HCRL 300-240    |
| 400                      | 110                       | 55 | 26.5 | 30 | 16.5 | HCRL 400-150    |
|                          | 110                       | 55 | 26.5 | 32 | 18.5 | HCRL 400-185    |
|                          | 125                       | 55 | 26.5 | 38 | 21.5 | HCRL 400-240    |
|                          | 125                       | 55 | 26.5 | 42 | 23.5 | HCRL 400-300    |
| 500                      | 115                       | 55 | 30   | 32 | 18.5 | HCRL 500-185    |
|                          | 120                       | 55 | 30   | 38 | 21.5 | HCRL 500-240    |
|                          | 125                       | 55 | 30   | 42 | 23.5 | HCRL 500-300    |
|                          | 140                       | 55 | 30   | 55 | 26.5 | HCRL 500-400    |

## TINNED COPPER REDUCING LINKS

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |    |      |    |      | Product<br>Code |
|--------------------------|---------------------------|----|------|----|------|-----------------|
|                          | A                         | B  | D    | K  | M    |                 |
| 630                      | 120                       | 56 | 34.5 | 38 | 21.5 | HCRL 630-240    |
|                          | 125                       | 56 | 34.5 | 42 | 23.5 | HCRL 630-300    |
|                          | 140                       | 56 | 34.5 | 55 | 26.5 | HCRL 630-400    |
|                          | 140                       | 56 | 34.5 | 55 | 30.0 | HCRL 630-500    |

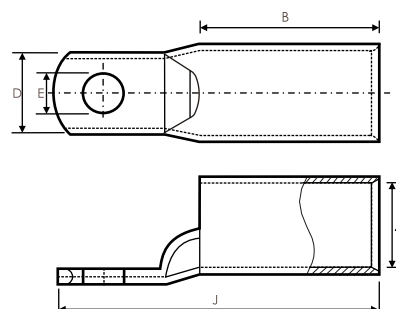


## NARROW PALM - CIRCUIT BREAKER CABLE TERMINAL ENDS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |      | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|------|-----------------|
|                          |                | A                         | D    | B    | J    |                 |
| 35                       | 6.5            | 8.2                       | 11.5 | 21.0 | 41.0 | HNP 35-6        |
| 50                       | 6.5            | 9.5                       | 11.5 | 22.0 | 43.0 | HNP 50-6        |
|                          | 8.4            | 9.5                       | 15.5 | 22.0 | 45.0 | HNP 50-8        |
|                          | 10.2           | 9.5                       | 19.0 | 22.0 | 49.0 | HNP 50-10       |
| 70                       | 6.5            | 11.3                      | 11.5 | 24.0 | 45.0 | HNP 70-6        |
|                          | 8.4            | 11.3                      | 15.5 | 24.0 | 47.0 | HNP 70-8        |
|                          | 10.2           | 11.3                      | 19.0 | 24.0 | 51.0 | HNP 70-10       |
| 95                       | 8.4            | 13.5                      | 15.5 | 27.0 | 51.0 | HNP 95-8        |
|                          | 10.2           | 13.5                      | 19.0 | 27.0 | 55.0 | HNP 95-10       |
| 120                      | 8.4            | 15.0                      | 19.0 | 30.0 | 61.0 | HNP 120-8       |
|                          | 10.2           | 15.0                      | 19.0 | 30.0 | 61.0 | HNP 120-10      |
| 150                      | 8.4            | 16.7                      | 19.0 | 30.0 | 66.0 | HNP 150-8       |
|                          | 10.2           | 16.7                      | 19.0 | 30.0 | 66.0 | HNP 150-10      |
| 185                      | 10.2           | 18.5                      | 24.5 | 32.0 | 74.0 | HNP 185-10      |
|                          | 13.0           | 18.5                      | 24.5 | 32.0 | 74.0 | HNP 185-12      |
| 240                      | 10.2           | 21.1                      | 24.5 | 38.0 | 82.0 | HNP 240-10      |
|                          | 13.0           | 21.1                      | 24.5 | 38.0 | 82.0 | HNP 240-12      |
| 300                      | 10.2           | 23.6                      | 24.5 | 42.0 | 87.0 | HNP 300-10      |
|                          | 13.0           | 23.6                      | 24.5 | 42.0 | 87.0 | HNP 300-12      |

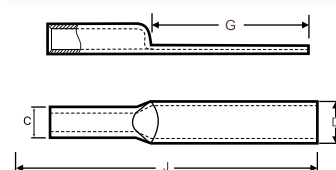
\* Bell Mouthed Lugs are available on request. Add "B" before the Product Code.



## LONG PALM LONG BARREL CABLE TERMINALS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |     |      |     | Product<br>Code |
|--------------------------|---------------------------|-----|------|-----|-----------------|
|                          | C                         | J   | D    | G   |                 |
| 16                       | 7.9                       | 85  | 12.0 | 60  | HCPB-16         |
| 25                       | 9.5                       | 95  | 16.0 | 60  | HCPB-25         |
| 35                       | 11.5                      | 111 | 17.0 | 72  | HCPB-35         |
| 50                       | 12.8                      | 130 | 18.3 | 81  | HCPB-50         |
| 70                       | 14.6                      | 155 | 21.3 | 102 | HCPB-70         |
| 95                       | 17.4                      | 161 | 26.0 | 102 | HCPB-95         |
| 120                      | 20.6                      | 170 | 28.7 | 102 | HCPB-120        |
| 150                      | 22.2                      | 170 | 32.5 | 102 | HCPB-150        |
| 185                      | 24.2                      | 175 | 34.0 | 102 | HCPB-185        |
| 240                      | 28.5                      | 195 | 40.0 | 105 | HCPB-240        |
| 300                      | 31.9                      | 210 | 45.3 | 108 | HCPB-400        |
| 400                      | 34.9                      | 229 | 50.3 | 111 | HCPB-400        |
| 500                      | 38.1                      | 237 | 55.0 | 111 | HCPB-500        |
| 630                      | 44.0                      | 250 | 63.0 | 111 | HCPB-630        |



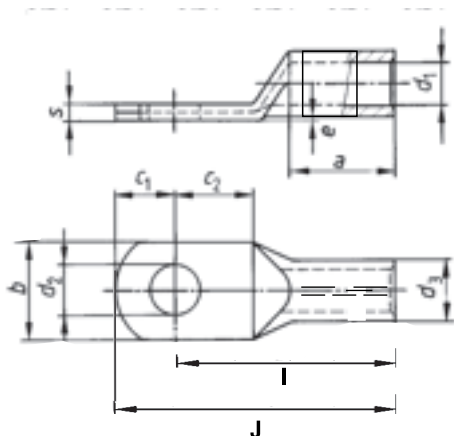
Tolerance as per Standard.

## COMPRESSION TYPE TINNED COPPER CABLE LUGS (AS PER DIN 46235)

MATERIAL : E - COPPER • FINISH : TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole d2 | Dimensions in mm |      |     |     |      |    |     |     |      | Product<br>Code |
|--------------------------|-----------------|------------------|------|-----|-----|------|----|-----|-----|------|-----------------|
|                          |                 | d1               | d3   | b   | s   | c1   | c2 | a   | l   | J    |                 |
| 6                        | 5.3             | 3.8              | 5.5  | 8.5 | 1.5 | 9    | 6  | 10  | 24  | 33   | HD 6-5          |
| 6                        | 6.4             | 3.8              | 5.5  | 8.5 | 1.5 | 10.5 | 8  | 10  | 24  | 34.5 | HD 6-6          |
| 10                       | 5.3             | 4.5              | 6    | 9   | 1.5 | 9    | 6  | 10  | 27  | 36   | HD 10-5         |
| 10                       | 5.3             | 4.5              | 6    | 9   | 1.5 | 9    | 6  | 10  | 27  | 36   | HD 10-5         |
| 16                       | 6.4             | 5.5              | 8.5  | 13  | 2.5 | 10.5 | 8  | 20  | 36  | 46.5 | HD 16-6         |
| 16                       | 8.4             | 5.5              | 8.5  | 13  | 2.5 | 13   | 10 | 20  | 36  | 49   | HD 16-8         |
| 16                       | 10.5            | 5.5              | 8.5  | 17  | 2.5 | 15   | 12 | 20  | 36  | 51   | HD 16-10        |
| 25                       | 6.4             | 7                | 10   | 14  | 3   | 10.5 | 8  | 20  | 38  | 48.5 | HD 25-6         |
| 25                       | 8.4             | 7                | 10   | 15  | 3   | 13   | 10 | 20  | 38  | 51   | HD 25-8         |
| 25                       | 10.5            | 7                | 10   | 17  | 3   | 15   | 12 | 20  | 38  | 54   | HD 25-10        |
| 25                       | 13              | 7                | 10   | 19  | 3   | 16   | 13 | 20  | 38  | 54   | HD 25-12        |
| 35                       | 8.4             | 8.2              | 12.5 | 17  | 2.5 | 13   | 10 | 20  | 42  | 55   | HD 35-8         |
| 35                       | 10.5            | 8.2              | 12.5 | 19  | 2.5 | 15   | 12 | 20  | 42  | 57   | HD 35-10        |
| 35                       | 13              | 8.2              | 12.5 | 21  | 2.5 | 16   | 13 | 20  | 42  | 58   | HD 35-12        |
| 50                       | 8.4             | 10               | 14.5 | 20  | 4   | 13   | 10 | 28  | 52  | 65   | HD 50-8         |
| 50                       | 10.5            | 10               | 14.5 | 22  | 4   | 15   | 12 | 28  | 52  | 67   | HD 50-10        |
| 50                       | 13              | 10               | 14.5 | 24  | 4   | 16   | 13 | 28  | 52  | 68   | HD 50-12        |
| 50                       | 17              | 10               | 14.5 | 28  | 4   | 19   | 16 | 28  | 52  | 71   | HD 50-16        |
| 70                       | 8.4             | 11.5             | 16.5 | 24  | 4.5 | 13   | 10 | 28  | 55  | 68   | HD 70-8         |
| 70                       | 10.5            | 11.5             | 16.5 | 24  | 4.5 | 15   | 12 | 28  | 55  | 70   | HD 70-10        |
| 70                       | 13              | 11.5             | 16.5 | 24  | 4.5 | 16   | 13 | 28  | 55  | 71   | HD 70-12        |
| 70                       | 17              | 11.5             | 16.5 | 30  | 4.5 | 19   | 16 | 28  | 55  | 74   | HD 70-16        |
| 95                       | 10.5            | 13.5             | 19   | 28  | 5   | 15   | 12 | 35  | 65  | 80   | HD 95-10        |
| 95                       | 13              | 13.5             | 19   | 28  | 5   | 16   | 13 | 35  | 65  | 81   | HD 95-12        |
| 95                       | 17              | 13.5             | 19   | 32  | 5   | 19   | 16 | 35  | 65  | 84   | HD 95-16        |
| 120                      | 10.5            | 15.5             | 21   | 32  | 5.5 | 15   | 12 | 35  | 70  | 85   | HD 120-10       |
| 120                      | 13              | 15.5             | 21   | 32  | 5.5 | 16   | 13 | 35  | 70  | 86   | HD 120-12       |
| 120                      | 17              | 15.5             | 21   | 32  | 5.5 | 19   | 16 | 35  | 70  | 89   | HD 120-16       |
| 120                      | 21              | 15.5             | 21   | 38  | 5.5 | 22   | 20 | 35  | 70  | 92   | HD 120-20       |
| 150                      | 10.5            | 17               | 23.5 | 34  | 6   | 15   | 12 | 35  | 78  | 93   | HD 150-10       |
| 150                      | 13              | 17               | 23.5 | 34  | 6   | 16   | 13 | 35  | 78  | 94   | HD 150-12       |
| 150                      | 17              | 17               | 23.5 | 34  | 6   | 19   | 16 | 35  | 78  | 97   | HD 150-16       |
| 150                      | 21              | 17               | 23.5 | 40  | 6   | 22   | 20 | 35  | 78  | 100  | HD 150-20       |
| 185                      | 10.5            | 19               | 25.5 | 37  | 6   | 15   | 12 | 40  | 82  | 97   | HD 185-10       |
| 185                      | 13              | 19               | 25.5 | 37  | 6   | 16   | 13 | 40  | 82  | 98   | HD 185-12       |
| 185                      | 17              | 19               | 25.5 | 37  | 6   | 19   | 16 | 40  | 82  | 101  | HD 185-16       |
| 185                      | 21              | 19               | 25.5 | 40  | 6   | 22   | 20 | 40  | 82  | 104  | HD 185-20       |
| 240                      | 13              | 21.5             | 29   | 42  | 6.5 | 16   | 13 | 40  | 92  | 108  | HD 240-12       |
| 240                      | 17              | 21.5             | 29   | 42  | 6.5 | 19   | 16 | 40  | 92  | 111  | HD 240-16       |
| 240                      | 21              | 21.5             | 29   | 45  | 6.5 | 22   | 20 | 40  | 92  | 114  | HD 240-20       |
| 300                      | 17              | 24.5             | 32   | 48  | 7   | 19   | 16 | 50  | 100 | 119  | HD 300-16       |
| 300                      | 21              | 24.5             | 32   | 48  | 7   | 22   | 20 | 50  | 100 | 122  | HD 300-20       |
| 400                      | 17              | 27.5             | 38.5 | 55  | 10  | 25   | 16 | 70  | 115 | 140  | HD 400-16       |
| 400                      | 21              | 27.5             | 38.5 | 55  | 10  | 25   | 20 | 70  | 115 | 140  | HD 400-20       |
| 500                      | 21              | 31               | 42   | 60  | 10  | 25   | 20 | 70  | 125 | 150  | HD 500-20       |
| 625                      | 21              | 34.5             | 44   | 60  | 10  | 25   | 20 | 80  | 135 | 160  | HD 625-20       |
| 800                      | 21              | 40               | 52   | 75  | 12  | 25   | 20 | 100 | 165 | 190  | HD 800-20       |
| 1000                     | 21              | 44               | 58   | 85  | 14  | 25   | 20 | 100 | 165 | 190  | HD 1000-20      |

The cable lugs shall be marked with manufacturer's symbol,  
nominal size of conductor / stud hole & location for crimping.

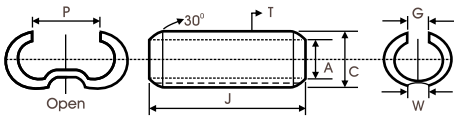


# SOLDERING TYPE COPPER WEAK BACK FERRULES

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm ± 3% |      |   |     |    |     | Product<br>Code |
|--------------------------|-----------------------|------|---|-----|----|-----|-----------------|
|                          | A                     | C    | G | J   | P  | W   |                 |
| 6                        | 3.0                   | 4.6  | 2 | 20  | 3  | -   | HWB - 6         |
| 10                       | 4.4                   | 6.0  | 2 | 25  | 4  | -   | HWB - 10        |
| 16                       | 5.5                   | 7.5  | 2 | 25  | 5  | 1.5 | HWB - 16        |
| 25                       | 7.0                   | 9.0  | 2 | 30  | 7  | 1.5 | HWB - 25        |
| 35                       | 8.0                   | 10.4 | 2 | 35  | 8  | 1.5 | HWB - 35        |
| 50                       | 9.5                   | 11.9 | 2 | 40  | 9  | 1.5 | HWB - 50        |
| 70                       | 12.0                  | 14.8 | 3 | 45  | 12 | 3.0 | HWB - 70        |
| 95                       | 13.5                  | 16.3 | 3 | 50  | 13 | 3.0 | HWB - 95        |
| 120                      | 15.5                  | 18.7 | 4 | 55  | 15 | 3.0 | HWB - 120       |
| 150                      | 17.0                  | 20.6 | 4 | 60  | 16 | 3.0 | HWB - 150       |
| 185                      | 18.5                  | 22.9 | 4 | 65  | 18 | 5.0 | HWB - 185       |
| 225                      | 20.5                  | 24.9 | 5 | 75  | 20 | 5.0 | HWB - 225       |
| 240                      | 22.0                  | 26.4 | 5 | 80  | 21 | 5.0 | HWB - 240       |
| 300                      | 24.0                  | 29.6 | 5 | 85  | 23 | 5.0 | HWB - 300       |
| 400                      | 28.5                  | 34.7 | 7 | 95  | 27 | 5.0 | HWB - 400       |
| 500                      | 30.5                  | 37.5 | 7 | 105 | 30 | 5.0 | HWB - 500       |
| 625                      | 34.5                  | 42.5 | 8 | 115 | 33 | 5.0 | HWB - 625       |

• Ferrules are supplied in open form.

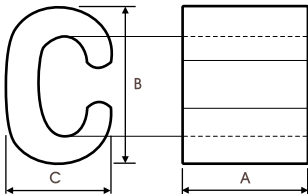
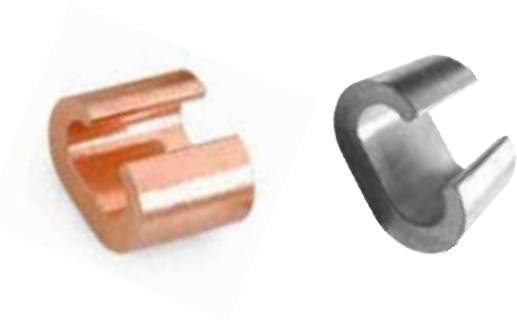


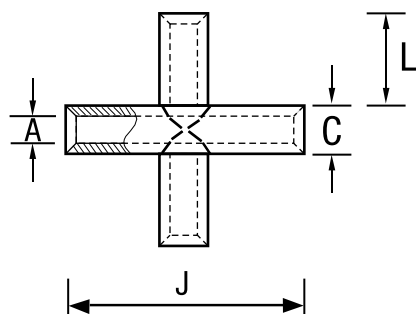
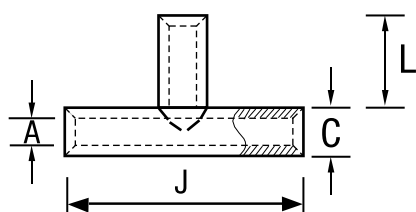
# COPPER 'C' TYPE CONNECTORS

MATERIAL : E - COPPER • FINISH : COPPER / ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm ± 3% |       |       | Product<br>Code |
|--------------------------|-----------------------|-------|-------|-----------------|
|                          | A                     | B     | C     |                 |
| C6 - C6                  | 9.00                  | 9.80  | 6.40  | HCC 6 - 6       |
| C10 - C10                | 12.00                 | 12.60 | 8.40  | HCC 10 - 10     |
| C16 - C16                | 18.00                 | 17.60 | 11.00 | HCC 16 - 16     |
| C16 - C25                | 18.00                 | 20.50 | 17.50 | HCC 16 - 25     |
| C25 - C25                | 22.00                 | 24.70 | 14.50 | HCC 25 - 25     |
| C35 - C35                | 22.00                 | 24.70 | 14.50 | HCC 35 - 35     |
| C50 - C50                | 24.00                 | 34.00 | 21.50 | HCC 50 - 50     |
| C70 - C70                | 25.00                 | 34.00 | 21.50 | HCC 70 - 70     |
| C95 - C95                | 29.00                 | 27.40 | 21.50 | HCC 95 - 95     |
| C120 - C120              | 30.00                 | 42.60 | 25.00 | HCC 120 - 120   |
| C150 - C150              | 32.00                 | 54.00 | 31.70 | HCC 150 - 150   |
| C185 - C185              | 32.00                 | 54.00 | 31.70 | HCC 185 - 185   |
| C240 - C240              | 33.00                 | 60.00 | 35.00 | HCC 240 - 240   |

\* Add 'T' after Product Code for Tinned Connectors





## T - CONNECTORS

- Standard type
- Material : E - Copper
- Finish : Copper

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |     |    | Product<br>Code |
|--------------------------|---------------------------|------|-----|----|-----------------|
|                          | A                         | C    | J   | L  |                 |
| 1.5                      | 1.8                       | 3.7  | 30  | 12 | HTCW-1.5        |
| 2.5                      | 2.4                       | 4.0  | 30  | 12 | HTCW-2.5        |
| 4                        | 3.1                       | 4.8  | 30  | 12 | HTCW-4          |
| 6                        | 3.8                       | 5.5  | 35  | 14 | HTCW-6          |
| 10                       | 4.5                       | 6.2  | 35  | 14 | HTCW-10         |
| 16                       | 5.4                       | 7.1  | 50  | 21 | HTCW-16         |
| 25                       | 6.8                       | 8.8  | 55  | 23 | HTCW-25         |
| 35                       | 8.2                       | 10.6 | 70  | 30 | HTCW-35         |
| 50                       | 9.5                       | 12.4 | 80  | 34 | HTCW-50         |
| 70                       | 11.3                      | 14.6 | 85  | 35 | HTCW-70         |
| 95                       | 13.5                      | 17.4 | 90  | 36 | HTCW-90         |
| 120                      | 15.0                      | 19.4 | 95  | 38 | HTCW-120        |
| 150                      | 16.5                      | 21.2 | 110 | 44 | HTCW-150        |
| 185                      | 18.5                      | 23.5 | 115 | 45 | HTCW-185        |
| 240                      | 21.0                      | 26.5 | 130 | 52 | HTCW-240        |

Also Available in Aluminium on request

\* Add 'T' after Product Code for Tinned Connectors

## CROSS - CONNECTORS

- Standard type
- Material : E - Copper
- Finish : Copper

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |     |    | Product<br>Code |
|--------------------------|---------------------------|------|-----|----|-----------------|
|                          | A                         | C    | J   | L  |                 |
| 1.5                      | 1.8                       | 3.7  | 30  | 12 | HCCW-1.5        |
| 2.5                      | 2.4                       | 4.0  | 30  | 12 | HCCW-2.5        |
| 4                        | 3.1                       | 4.8  | 30  | 12 | HCCW-4          |
| 6                        | 3.8                       | 5.5  | 35  | 14 | HCCW-6          |
| 10                       | 4.5                       | 6.2  | 35  | 14 | HCCW-10         |
| 16                       | 4.5                       | 7.1  | 50  | 21 | HCCW-16         |
| 25                       | 6.8                       | 8.8  | 55  | 23 | HCCW-25         |
| 35                       | 8.2                       | 10.6 | 70  | 30 | HCCW-35         |
| 50                       | 9.5                       | 12.4 | 80  | 34 | HCCW-50         |
| 70                       | 11.3                      | 14.6 | 85  | 35 | HCCW-70         |
| 95                       | 13.5                      | 17.4 | 90  | 36 | HCCW-90         |
| 120                      | 15.0                      | 19.4 | 95  | 38 | HCCW-120        |
| 150                      | 16.5                      | 21.2 | 110 | 44 | HCCW-150        |
| 185                      | 18.5                      | 23.5 | 115 | 45 | HCCW-185        |
| 240                      | 21.0                      | 26.5 | 130 | 52 | HCCW-240        |

Also Available in Aluminium on request

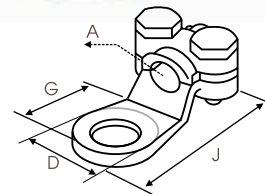
\* Add 'T' after Product Code for Tinned Connectors

## MECHANICAL CABLE LUGS - BOLTED WITH 2 SCREWS OR 4 SCREWS

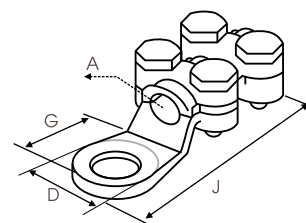
MATERIAL : BRASS • FINISH : ELECTRO TINNED

STEEL SCREWS : ELECTRO PLATED

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |       |       |      |  | Screw  | Type | Product<br>Code |
|--------------------------|---------------------------|-------|-------|------|--|--------|------|-----------------|
|                          | A                         | G     | D     | J    |  |        |      |                 |
| 10                       | 4.0                       | 6.0   | 15.0  | 32.5 |  | M - 5  | I    | H2B - 10        |
| 16                       | 5.1                       | 8.5   | 17.0  | 37.0 |  | M - 5  | I    | H2B - 16        |
| 25                       | 6.3                       | 8.5   | 18.75 | 42.0 |  | M - 5  | I    | H2B - 25        |
| 35                       | 7.5                       | 10.5  | 21.50 | 4.0  |  | M - 5  | I    | H2B - 35        |
| 50                       | 9.5                       | 10.5  | 23.0  | 56.5 |  | M - 6  | II   | H4B - 50        |
| 75                       | 11.0                      | 13.25 | 26.0  | 61.0 |  | M - 6  | II   | H4B - 75        |
| 100                      | 13.0                      | 14.30 | 29.0  | 65.0 |  | M - 6  | II   | H4B - 100       |
| 120                      | 14.0                      | 14.80 | 32.0  | 71.0 |  | M - 6  | II   | H4B - 120       |
| 170                      | 16.0                      | 16.0  | 33.0  | 81.0 |  | M - 8  | II   | H4B - 170       |
| 200                      | 17.0                      | 17.0  | 35.0  | 85.0 |  | M - 8  | II   | H4B - 200       |
| 250                      | 18.0                      | 17.0  | 38.0  | 87.5 |  | M - 8  | II   | H4B - 250       |
| 300                      | 21.0                      | 19.8  | 45.0  | 118  |  | M - 10 | II   | H4B - 300       |
| 400/500                  | 25.5                      | 22.0  | 53.0  | 132  |  | M - 10 | II   | H4B - 400/500   |
| 700                      | 34.0                      | 22.0  | 60.0  | 150  |  | M - 10 | II   | H4B - 700       |



TYPE I



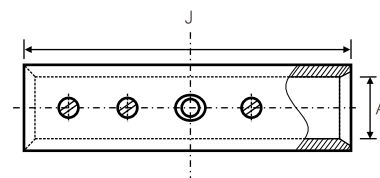
TYPE II

## TINNED SCREW SLEEVES

MATERIAL : BRASS • FINISH : ELECTRO TINNED

STEEL SCREWS : ELECTRO PLATED

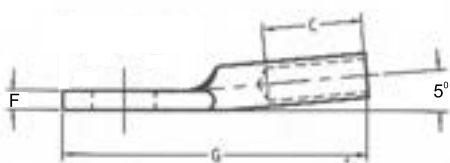
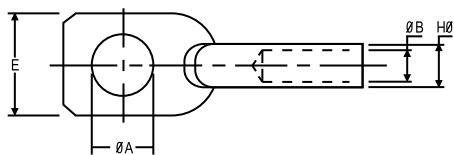
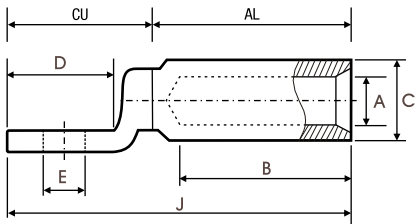
| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |    | Product<br>Code |
|--------------------------|---------------------------|----|-----------------|
|                          | A                         | J  |                 |
| 6                        | 3.5                       | 20 | HTBSS 6         |
| 10                       | 4.4                       | 30 | HTBSS 10        |
| 16                       | 5.5                       | 40 | HTBSS 16        |
| 25                       | 6.8                       | 45 | HTBSS 25        |
| 35                       | 8.2                       | 45 | HTBSS 35        |
| 50                       | 9.5                       | 48 | HTBSS 50        |
| 70                       | 11.2                      | 52 | HTBSS 70        |
| 95                       | 13.4                      | 55 | HTBSS 95        |
| 120                      | 15                        | 55 | HTBSS 120       |
| 150                      | 16.5                      | 60 | HTBSS 150       |
| 185                      | 19                        | 60 | HTBSS 185       |
| 240                      | 21                        | 65 | HTBSS 240       |
| 300                      | 23.5                      | 65 | HTBSS 300       |





## ALUMINIUM - COPPER BI-METAL TERMINALS (WITH COPPER PALMS)

Al-Cu Bi-metal terminals are used for connecting Aluminium cables to Copper busbars.



| Aluminium |      | Palm    |             | Stud        | Barrel  | Total    | Product Code |
|-----------|------|---------|-------------|-------------|---------|----------|--------------|
| ID A      | OD C | Width D | Thickness F | Hole Dia. E | Depth B | Length J |              |
| 5.7       | 14.0 | 20.0    | 3.0         | 11.0        | 40.0    | 76.0     | HBT 10 - 10  |
| 6.0       | 14.0 | 20.0    | 3.0         | 11.0        | 40.0    | 76.0     | HBT 16 - 10  |
| 7.0       | 14.0 | 20.0    | 3.0         | 13.0        | 40.0    | 76.0     | HBT 25 - 12  |
| 8.0       | 14.0 | 20.0    | 3.0         | 13.0        | 40.0    | 76.0     | HBT 35 - 12  |
| 10.0      | 16.0 | 25.0    | 5.0         | 13.0        | 45.0    | 90.0     | HBT 50 - 12  |
| 11.3      | 18.0 | 25.0    | 5.0         | 13.0        | 45.0    | 90.0     | HBT 70 - 12  |
| 13.5      | 22.0 | 25.0    | 5.0         | 13.0        | 45.0    | 90.0     | HBT 95 - 12  |
| 15.0      | 22.0 | 30.0    | 6.0         | 13.0        | 60.0    | 112.0    | HBT 120 - 12 |
| 16.5      | 25.0 | 30.0    | 6.0         | 13.0        | 60.0    | 112.0    | HBT 150 - 12 |
| 18.5      | 28.0 | 35.0    | 7.5         | 13.0        | 60.0    | 124.0    | HBT 185 - 12 |
| 18.5      | 28.0 | 35.0    | 7.5         | 17.0        | 60.0    | 124.0    | HBT 185 - 16 |
| 21.0      | 32.0 | 35.0    | 7.5         | 13.0        | 60.0    | 124.0    | HBT 240 - 12 |
| 21.0      | 32.0 | 35.0    | 7.5         | 17.0        | 60.0    | 124.0    | HBT 240 - 16 |
| 23.5      | 34.0 | 35.0    | 7.5         | 13.0        | 70.0    | 136.0    | HBT 300 - 12 |
| 23.5      | 34.0 | 35.0    | 7.5         | 17.0        | 70.0    | 136.0    | HBT 300 - 16 |
| 26.0      | 38.0 | 36.0    | 10.0        | 17.0        | 80.0    | 148.0    | HBT 400 - 16 |
| 29.0      | 44.0 | 50.0    | 10.0        | 17.0        | 90.0    | 175.0    | HBT 500 - 16 |
| 32.5      | 44.0 | 50.0    | 10.0        | 17.0        | 90.0    | 175.0    | HBT 630 - 16 |

### SQUARE PALM

|      |      |         |      |        |       |       |                   |
|------|------|---------|------|--------|-------|-------|-------------------|
| 29.0 | 44.0 | 60 X 60 | 10.0 | 4 X 11 | 90.0  | 180.0 | HBT 500- 4 X 10   |
| 32.5 | 44.0 | 60 X 60 | 10.0 | 4 X 11 | 90.0  | 180.0 | HBT 630 - 4 X 10  |
| 39.0 | 54.0 | 60 X 60 | 10.0 | 4 X 11 | 115.0 | 210.0 | HBT 800 - 4 X 10  |
| 42.0 | 60.0 | 80 X 80 | 10.0 | 4 X 11 | 125.0 | 250.0 | HBT 1000 - 4 X 10 |
| 46.5 | 65.0 | 80 X 80 | 10.0 | 4 X 13 | 135.0 | 260.0 | HBT 1300 - 4 X 12 |

## TINNED COPPER FORGED CABLE LUGS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm ± 5% |      |    |    |     |     |      | Product<br>Code |
|--------------------------|-----------------------|------|----|----|-----|-----|------|-----------------|
|                          | A                     | B    | C  | E  | F   | G   | H    |                 |
| 16                       | 8.3                   | 5.5  | 30 | 22 | 4.5 | 80  | 11.5 | HCFL 16 - 8     |
| 16                       | 10.3                  | 5.5  | 30 | 22 | 4.5 | 80  | 11.5 | HCFL 16 - 10    |
| 16                       | 12.3                  | 5.5  | 30 | 22 | 4.5 | 80  | 11.5 | HCFL 16 - 12    |
| 16                       | 16.3                  | 5.5  | 30 | 25 | 4.0 | 85  | 11.5 | HCFL 16 - 16    |
| 25                       | 10.3                  | 7.0  | 30 | 22 | 4.5 | 80  | 11.5 | HCFL 25 - 10    |
| 25                       | 12.3                  | 7.0  | 30 | 22 | 4.5 | 80  | 11.5 | HCFL 25 - 12    |
| 25                       | 16.3                  | 7.0  | 30 | 25 | 4.0 | 85  | 11.5 | HCFL 25 - 16    |
| 35                       | 10.3                  | 8.5  | 31 | 22 | 4.5 | 80  | 11.5 | HCFL 35 - 10    |
| 35                       | 12.3                  | 8.5  | 31 | 22 | 4.5 | 80  | 11.5 | HCFL 35 - 12    |
| 50                       | 10.3                  | 9.5  | 33 | 25 | 5.0 | 80  | 12.7 | HCFL 50 - 10    |
| 50                       | 12.3                  | 9.5  | 33 | 25 | 5.0 | 80  | 12.7 | HCFL 50 - 12    |
| 50                       | 16.3                  | 9.5  | 33 | 28 | 4.5 | 90  | 12.7 | HCFL 50 - 16    |
| 50                       | 18.3                  | 9.5  | 33 | 28 | 4.5 | 90  | 12.7 | HCFL 50 - 18    |
| 70                       | 10.3                  | 11.0 | 36 | 27 | 6.0 | 90  | 14.5 | HCFL 70 - 10    |
| 70                       | 12.3                  | 11.0 | 36 | 27 | 6.0 | 90  | 14.5 | HCFL 70 - 12    |
| 70                       | 20.3                  | 11.0 | 36 | 30 | 5.5 | 90  | 14.5 | HCFL 70 - 20    |
| 95                       | 10.3                  | 13.5 | 40 | 36 | 6.5 | 100 | 17.3 | HCFL 95 - 10    |
| 95                       | 16.3                  | 13.5 | 40 | 36 | 6.5 | 100 | 17.3 | HCFL 95 - 16    |
| 95                       | 18.3                  | 13.5 | 40 | 36 | 6.5 | 100 | 17.3 | HCFL 95 - 18    |
| 95                       | 20.3                  | 13.5 | 40 | 36 | 6.5 | 100 | 17.3 | HCFL 95 - 20    |

## ALUMINIUM - COPPER BI - METAL CONNECTOR / SPLICE

**MATERIAL : E - COPPER • FINISH : UNCOATED / ELECTRO TINNED**

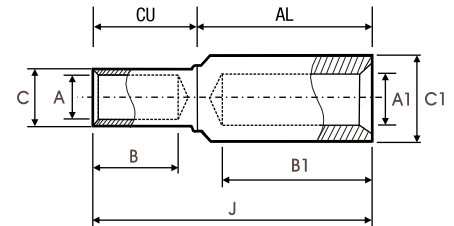
Al-Cu Bi-Metal splices are used for joining Aluminium Cable to Copper Cable.

| Copper |      |      | Aluminium |      |      | Total Length | Product Code  |
|--------|------|------|-----------|------|------|--------------|---------------|
| A      | C    | B    | A1        | C1   | B1   | J            |               |
| 5.5    | 8.5  | 25.0 | 6.0       | 14.0 | 40.0 | 75.0         | HBS 16 - 16   |
| 5.5    | 8.5  | 25.0 | 7.0       | 14.0 | 40.0 | 75.0         | HBS 25 - 16   |
| 7.0    | 10.0 | 25.0 | 7.0       | 14.0 | 40.0 | 76.0         | HBS 25 - 25   |
| 5.5    | 8.5  | 25.0 | 8.0       | 14.0 | 40.0 | 76.0         | HBS 35 - 16   |
| 7.0    | 10.0 | 25.0 | 8.0       | 14.0 | 40.0 | 76.0         | HBS 35 - 25   |
| 8.2    | 12.5 | 25.0 | 8.0       | 14.0 | 40.0 | 77.0         | HBS 35 - 35   |
| 7.0    | 10.0 | 25.0 | 10.0      | 16.0 | 45.0 | 82.0         | HBS 50 - 25   |
| 8.2    | 12.5 | 25.0 | 10.0      | 16.0 | 45.0 | 82.0         | HBS 50 - 35   |
| 10.0   | 14.5 | 30.0 | 10.0      | 16.0 | 45.0 | 88.0         | HBS 50 - 50   |
| 8.2    | 12.5 | 25.0 | 11.3      | 18.0 | 45.0 | 83.0         | HBS 70 - 35   |
| 10.0   | 14.5 | 30.0 | 11.3      | 18.0 | 45.0 | 89.0         | HBS 70 - 50   |
| 11.5   | 16.5 | 35.0 | 11.3      | 18.0 | 45.0 | 94.0         | HBS 70 - 70   |
| 10.0   | 14.5 | 30.0 | 13.5      | 22.0 | 45.0 | 90.0         | HBS 95 - 50   |
| 11.5   | 16.5 | 35.0 | 13.5      | 22.0 | 45.0 | 95.0         | HBS 95 - 70   |
| 13.5   | 19.0 | 40.0 | 13.5      | 22.0 | 45.0 | 101.0        | HBS 95 - 95   |
| 11.5   | 16.5 | 35.0 | 15.0      | 22.0 | 60.0 | 111.0        | HBS 120 - 70  |
| 13.5   | 19.0 | 40.0 | 15.0      | 22.0 | 60.0 | 116.0        | HBS 120 - 95  |
| 15.5   | 21.0 | 40.0 | 15.0      | 22.0 | 60.0 | 117.0        | HBS 120 - 120 |
| 13.5   | 19.0 | 40.0 | 16.5      | 25.0 | 60.0 | 117.0        | HBS 150 - 95  |
| 15.5   | 21.0 | 40.0 | 16.5      | 25.0 | 60.0 | 118.0        | HBS 150 - 120 |
| 17.0   | 23.5 | 45.0 | 16.5      | 25.0 | 60.0 | 123.0        | HBS 150 - 150 |
| 15.5   | 21.0 | 40.0 | 18.5      | 28.0 | 60.0 | 119.0        | HBS 185 - 120 |
| 17.0   | 23.5 | 45.0 | 18.5      | 28.0 | 60.0 | 124.0        | HBS 185 - 150 |
| 19.0   | 25.5 | 45.0 | 18.5      | 28.0 | 60.0 | 125.0        | HBS 185 - 185 |
| 17.0   | 23.5 | 45.0 | 21.0      | 32.0 | 60.0 | 125.0        | HBS 240 - 150 |
| 19.0   | 25.5 | 45.0 | 21.0      | 32.0 | 60.0 | 126.0        | HBS 240 - 185 |
| 21.5   | 29.0 | 50.0 | 21.0      | 32.0 | 60.0 | 132.0        | HBS 240 - 240 |

Construction : EC Grade Copper is friction welded to EC Grade Aluminium.

Further machined to required size.

Made to order Bi - Metallic connectors as per customers specifications / samples / diagrams can be available.



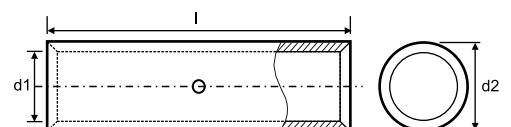
## COMPRESSION TYPE TINNED COPPER CONNECTORS (AS PER DIN 46267)

**MATERIAL : E - COPPER • FINISH : ELECTRO TINNED**

| Cable mm <sup>2</sup> | Dimensions in mm |      |     | Product Code |
|-----------------------|------------------|------|-----|--------------|
|                       | d1               | d2   | l   |              |
| 6                     | 3.8              | 5.5  | 30  | HDC - 6      |
| 10                    | 4.5              | 6    | 30  | HDC - 10     |
| 16                    | 5.5              | 8.5  | 50  | HDC - 16     |
| 25                    | 7                | 10   | 50  | HDC - 25     |
| 35                    | 8.2              | 12.5 | 50  | HDC - 35     |
| 50                    | 10               | 14.5 | 56  | HDC - 50     |
| 70                    | 11.5             | 16.5 | 56  | HDC - 70     |
| 95                    | 13.5             | 19   | 70  | HDC - 95     |
| 120                   | 15.5             | 21   | 70  | HDC - 120    |
| 150                   | 17               | 23.5 | 80  | HDC - 150    |
| 185                   | 19               | 25.5 | 85  | HDC - 185    |
| 240                   | 21.5             | 29   | 90  | HDC - 240    |
| 300                   | 24.5             | 32   | 100 | HDC - 300    |
| 400                   | 27.5             | 38.5 | 150 | HDC - 400    |
| 500                   | 31               | 42   | 160 | HDC - 500    |
| 625                   | 34.5             | 44   | 160 | HDC - 625    |
| 800                   | 40               | 52   | 200 | HDC - 800    |
| 1000                  | 44               | 58   | 200 | HDC - 1000   |

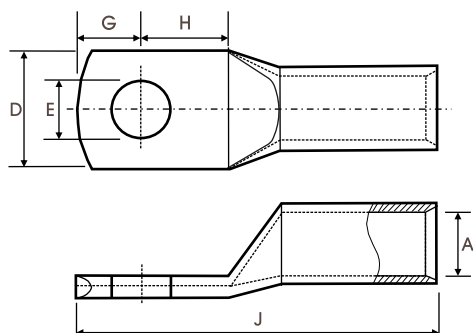
Note :  
The DIN connectors shall be permanently marked by stamping with manufacturer symbol, nominal size of conductor & location for crimping.

Tolerance as per Standard.



## ALUMINIUM TERMINALS

MATERIAL : ALUMINIUM • FINISH : NATURAL / PASSIVATED ALUMINIUM

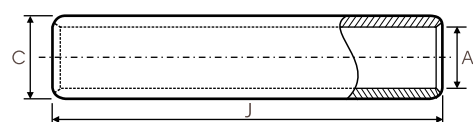


| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |      |      |       | Product<br>Code |
|--------------------------|----------------|---------------------------|------|------|------|-------|-----------------|
|                          |                | A                         | D    | G    | H    | J     |                 |
| 16                       | 8              | -                         | -    | 11.0 | 13.0 | 77.0  | HAT 16 - 8      |
| 25                       | 8              | 7.2                       | 14.0 | 14   | 13.0 | 77.0  | HAT 25 - 8      |
| 35                       | 8              | 8.3                       | 16.0 | 16   | 13.0 | 77.5  | HAT 35 - 8      |
|                          | 10             | 8.3                       | 16.0 | -    | 13.0 | 77.5  | HAT 35 - 10     |
| 50                       | 12             | 10.1                      | 19.5 | -    | 16.0 | 91.0  | HAT 50 - 12     |
|                          | 14             | 10.1                      | 19.5 | -    | 18.0 | 95.0  | HAT 50 - 14     |
| 70                       | 12             | 10.2                      | 20.5 | -    | 16.0 | 91.0  | HAT 70 - 12     |
|                          | 14             | 10.2                      | 20.5 | -    | 18.0 | 95.0  | HAT 70 - 14     |
| 95                       | 12             | 12.0                      | 23.5 | -    | 16.0 | 91.0  | HAT 95 - 12     |
|                          | 14             | 12.0                      | 23.5 | -    | 18.0 | 95.0  | HAT 95 - 14     |
| 120                      | 12             | 13.7                      | 26.5 | -    | 16.0 | 115.0 | HAT 120 - 12    |
|                          | 14             | 13.7                      | 26.5 | -    | 18.0 | 119.0 | HAT 120 - 14    |
| 150                      | 12             | 15.1                      | 29.5 | -    | 16.0 | 115.0 | HAT 150 - 12    |
|                          | 14             | 15.1                      | 29.5 | -    | 18.0 | 119.0 | HAT 150 - 14    |
| 185                      | 12             | 16.6                      | 33.0 | -    | 20.0 | 122.0 | HAT 185 - 12    |
|                          | 14             | 16.6                      | 33.0 | -    | 22.0 | 126.0 | HAT 185 - 14    |
| 240                      | 12             | 19.3                      | 37.5 | -    | 20.0 | 122.0 | HAT 240 - 12    |
|                          | 14             | 19.3                      | 37.5 | -    | 22.0 | 126.0 | HAT 240 - 14    |
| 300                      | 12             | 21.8                      | 42.0 | -    | 22.0 | 130.0 | HAT 300 - 12    |

- "HEX" Al. Terminals & through connectors are designed to accept a variety of conductor forms, especially less stranded compacted conductors.
- ONLY ON SPECIAL REQUEST : Barrels can be filled with grease & capped to avoid oxidation of the conductor.

## ALUMINIUM THROUGH CONNECTORS

MATERIAL : ALUMINIUM • FINISH : NATURAL / PASSIVATED ALUMINIUM



| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |       | Product<br>Code |
|--------------------------|---------------------------|------|-------|-----------------|
|                          | A                         | C    | J     |                 |
| 16                       | 5.5                       | 16.0 | 90.5  | HTAC - 16       |
| 25                       | 6.5                       | 16.0 | 90.5  | HTAC - 25       |
| 35                       | 8.0                       | 16.0 | 90.5  | HTAC - 35       |
| 50                       | 9.0                       | 20.0 | 106.5 | HTAC - 50       |
| 70                       | 11.0                      | 20.0 | 106.5 | HTAC - 70       |
| 95                       | 12.5                      | 20.0 | 106.5 | HTAC - 95       |
| 120                      | 13.7                      | 25.0 | 133.0 | HTAC - 120      |
| 150                      | 15.5                      | 25.0 | 135.0 | HTAC - 150      |
| 185                      | 17.0                      | 32.0 | 143.5 | HTAC - 185      |
| 240                      | 19.5                      | 32.0 | 146.0 | HTAC - 240      |
| 300                      | 22.5                      | 34.0 | 144.5 | HTAC - 300      |

- ONLY ON SPECIAL REQUEST : Barrels can be filled with grease & capped to avoid oxidation of the conductor.

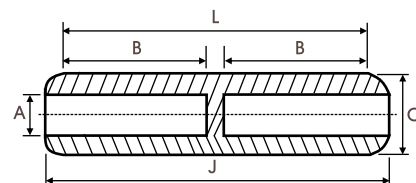
## ALUMINIUM SPLICE FOR LV & MV (UPTO 33 KV), FOR SIMILIAR CABLE CROSS SECTIONAL AREAS

MATERIAL : ALUMINIUM  
FINISH : NATURAL / PASSIVATED ALUMINIUM

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |    |     |     |     | Product<br>Code |
|--------------------------|---------------------------|----|-----|-----|-----|-----------------|
|                          | A                         | C  | L   | B   | J   |                 |
| 16                       | 5.5                       | 16 | 76  | 43  | 90  | HASC - 16       |
| 25                       | 6.5                       | 16 | 76  | 43  | 90  | HASC - 25       |
| 35                       | 8                         | 16 | 80  | 43  | 92  | HASC - 35       |
| 50                       | 9                         | 20 | 93  | 53  | 110 | HASC - 50       |
| 70                       | 11                        | 20 | 96  | 53  | 110 | HASC - 70       |
| 95                       | 12.5                      | 20 | 98  | 53  | 110 | HASC - 95       |
| 120                      | 13.7                      | 25 | 117 | 66  | 135 | HASC - 120      |
| 150                      | 15.5                      | 25 | 118 | 66  | 135 | HASC - 150      |
| 185                      | 17                        | 32 | 122 | 70  | 146 | HASC - 185      |
| 240                      | 19.5                      | 32 | 124 | 70  | 146 | HASC - 240      |
| 300                      | 23.3                      | 36 | 185 | 100 | 208 | HASC - 300      |
| 400                      | 26                        | 36 | 190 | 100 | 208 | HASC - 400      |
| 500                      | 29.1                      | 47 | 190 | 107 | 222 | HASC - 500      |
| 630                      | 33.5                      | 47 | 197 | 107 | 222 | HASC - 630      |
| 800                      | 37.5                      | 60 | 232 | 127 | 274 | HASC - 800      |
| 1000                     | 42                        | 60 | 240 | 128 | 276 | HASC - 1000     |

\* Also Available for Dissimilar Cable Cross Sectional Area

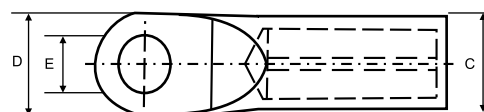
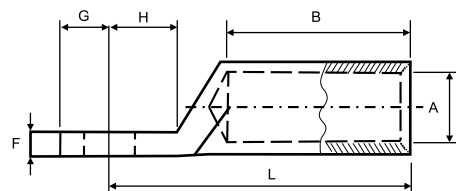
- ONLY ON SPECIAL REQUEST : Barrels can be filled with grease & capped to avoid oxidation of the conductor.



## AL. COMPRESSION CABLE LUGS AS PER DIN 46329

MATERIAL : E-ALUMINIUM  
FINISH : NATURAL

| Cable<br>mm <sup>2</sup> | Barrier design with oil stop. All Dimensions are in mm |      |      |    |     |    |      |      |     | Product<br>Code |
|--------------------------|--------------------------------------------------------|------|------|----|-----|----|------|------|-----|-----------------|
|                          | E                                                      | A    | C    | D  | F   | B  | H    | G    | L   |                 |
| 25                       | 9                                                      | 6.8  | 12   | 25 | 4   | 30 | 15.5 | 12.5 | 50  | HAFLD 25-8      |
|                          | 11                                                     | 6.8  | 12   | 25 | 4   | 30 | 15.5 | 12.5 | 50  | HAFLD 25-10     |
|                          | 13                                                     | 6.8  | 12   | 25 | 4   | 30 | 15.5 | 12.5 | 50  | HAFLD 25-12     |
| 35                       | 9                                                      | 8    | 14   | 25 | 4   | 42 | 15.5 | 12.5 | 62  | HAFLD 35-8      |
|                          | 11                                                     | 8    | 14   | 25 | 4   | 42 | 15.5 | 12.5 | 62  | HAFLD 35-10     |
|                          | 13                                                     | 8    | 14   | 25 | 4   | 42 | 15.5 | 12.5 | 62  | HAFLD 35-12     |
| 50                       | 9                                                      | 9.8  | 16   | 25 | 5.5 | 42 | 15.5 | 12.5 | 62  | HAFLD 50-8      |
|                          | 11                                                     | 9.8  | 16   | 25 | 5.5 | 42 | 15.5 | 12.5 | 62  | HAFLD 50-10     |
|                          | 13                                                     | 9.8  | 16   | 25 | 5.5 | 42 | 15.5 | 12.5 | 62  | HAFLD 50-12     |
| 70                       | 9                                                      | 11.2 | 18.5 | 25 | 5.5 | 52 | 15.5 | 12.5 | 72  | HAFLD 70-8      |
|                          | 11                                                     | 11.2 | 18.5 | 25 | 5.5 | 52 | 15.5 | 12.5 | 72  | HAFLD 70-10     |
|                          | 13                                                     | 11.2 | 18.5 | 25 | 5.5 | 52 | 15.5 | 12.5 | 72  | HAFLD 70-12     |
| 95                       | 11                                                     | 13.2 | 22   | 25 | 6   | 56 | 15.5 | 12.5 | 75  | HAFLD 95-10     |
|                          | 13                                                     | 13.2 | 22   | 25 | 6   | 56 | 15.5 | 12.5 | 75  | HAFLD 95-12     |
| 120                      | 11                                                     | 14.7 | 23   | 30 | 7.5 | 56 | 20   | 15   | 80  | HAFLD 120-10    |
|                          | 13                                                     | 14.7 | 23   | 30 | 7.5 | 56 | 20   | 15   | 80  | HAFLD 120-12    |
|                          | 17                                                     | 14.7 | 23   | 30 | 7.5 | 56 | 20   | 15   | 80  | HAFLD 120-16    |
| 150                      | 11                                                     | 16.3 | 25   | 30 | 8   | 60 | 20   | 15   | 90  | HAFLD 150-10    |
|                          | 13                                                     | 16.3 | 25   | 30 | 8   | 60 | 20   | 15   | 90  | HAFLD 150-12    |
|                          | 17                                                     | 16.3 | 25   | 30 | 8   | 60 | 20   | 15   | 90  | HAFLD 150-16    |
| 185                      | 11                                                     | 18.3 | 28.5 | 30 | 8   | 60 | 20   | 15   | 91  | HAFLD 185-10    |
|                          | 13                                                     | 18.3 | 28.5 | 30 | 8   | 60 | 20   | 15   | 91  | HAFLD 185-12    |
|                          | 17                                                     | 18.3 | 28.5 | 30 | 8   | 60 | 20   | 15   | 91  | HAFLD 185-16    |
| 240                      | 13                                                     | 21   | 32   | 38 | 11  | 70 | 24   | 19   | 103 | HAFLD 240-12    |
|                          | 17                                                     | 21   | 32   | 38 | 11  | 70 | 24   | 19   | 103 | HAFLD 240-16    |
|                          | 21                                                     | 21   | 32   | 38 | 11  | 70 | 24   | 19   | 103 | HAFLD 240-20    |
| 300                      | 13                                                     | 23.3 | 34   | 38 | 13  | 70 | 24   | 19   | 103 | HAFLD 300-12    |
|                          | 17                                                     | 23.3 | 34   | 38 | 13  | 70 | 24   | 19   | 103 | HAFLD 300-16    |
|                          | 21                                                     | 23.3 | 34   | 38 | 13  | 70 | 24   | 19   | 103 | HAFLD 300-20    |
| 400                      | 13                                                     | 26   | 38.5 | 38 | 14  | 73 | 24   | 19   | 116 | HAFLD 400-12    |
|                          | 17                                                     | 26   | 38.5 | 38 | 14  | 73 | 24   | 19   | 116 | HAFLD 400-16    |
|                          | 21                                                     | 26   | 38.5 | 38 | 14  | 73 | 24   | 19   | 116 | HAFLD 400-20    |
| 500                      | 13                                                     | 29   | 44   | 44 | 15  | 79 | 24   | 22   | 122 | HAFLD 500-12    |
|                          | 17                                                     | 29   | 44   | 44 | 15  | 79 | 24   | 22   | 122 | HAFLD 500-16    |
|                          | 21                                                     | 29   | 44   | 44 | 15  | 79 | 24   | 22   | 122 | HAFLD 500-20    |



Also available tin plated for copper connections. For tin plated, please add "T" before HEX Prod. Code.  
Tolerance : as per Standard.

## ALUMINIUM 3-CORE SECTOR CABLE LUGS

MATERIAL : ALUMINIUM • FINISH : NATURAL / PASSIVATED ALUMINIUM

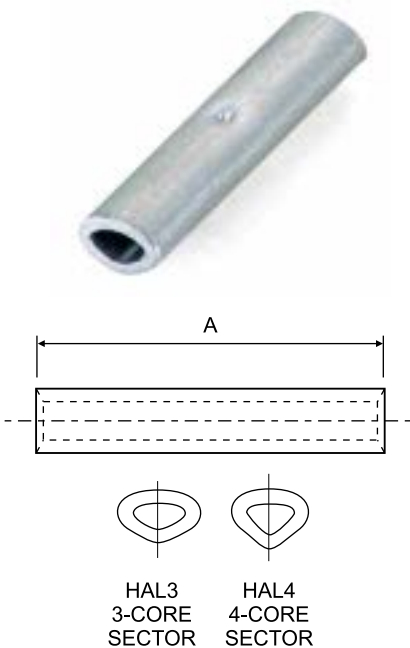
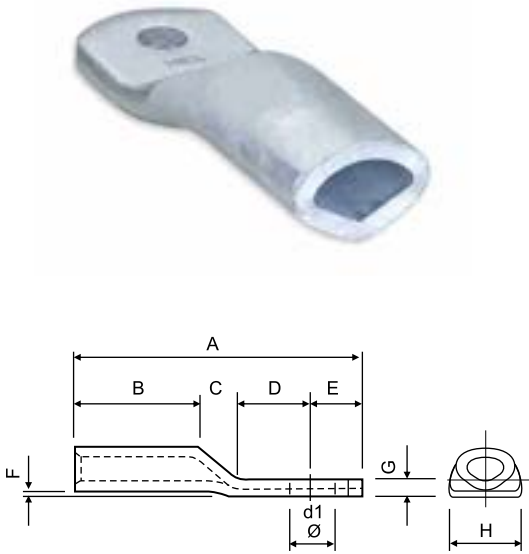
| Cable<br>mm <sup>2</sup> | Stud<br>Ø | Dimensions in mm $\pm 3\%$ |      |      |      |    |     |     |      |      | Product<br>Code |
|--------------------------|-----------|----------------------------|------|------|------|----|-----|-----|------|------|-----------------|
|                          |           | A                          | B    | C    | D    | E  | F   | G   | H    | d1Ø  |                 |
| 25                       | 8         |                            |      |      |      |    |     | 4.1 | 15.2 | 8.4  | HAL3 25-8       |
|                          | 10        | 65                         | 25   | 8    | 17   | 12 | 1   |     |      | 10.4 | HAL3 25-10      |
|                          | 12        |                            |      |      |      |    |     | 2.9 | 21   | 12.5 | HAL3 25-12      |
| 35                       | 8         |                            |      |      |      |    |     | 4.4 | 17.6 | 8.4  | HAL3 35-8       |
|                          | 10        | 68                         | 30   | 8    | 17   | 12 | 1   |     |      | 10.4 | HAL3 35-10      |
|                          | 12        |                            |      |      |      |    |     | 3.6 | 21   | 12.5 | HAL3 35-12      |
| 50                       | 10        |                            |      |      |      |    |     | 4.5 | 20.3 | 8.4  | HAL3 50-10      |
|                          | 12        | 71                         | 32   | 10   | 17   | 12 | 1   |     |      | 10.4 | HAL3 50-12      |
|                          | 16        |                            |      |      |      |    |     | 2.9 | 21   | 12.5 | HAL3 50-16      |
| 70                       | 10        |                            |      |      |      |    |     | 5   | 23.2 | 10.4 | HAL3 70-10      |
|                          | 12        | 76                         | 35.5 | 11   | 17   | 12 | 1   |     |      | 12.5 | HAL3 70-12      |
|                          | 16        |                            |      |      |      |    |     | 4.6 | 26   | 16.5 | HAL3 70-16      |
| 95                       | 10        |                            |      |      |      |    |     |     |      | 10.4 | HAL3 95-10      |
|                          | 12        | 82                         | 39   | 14   | 17   | 12 | 1.5 | 5.7 | 27.7 | 12.5 | HAL3 95-12      |
|                          | 16        |                            |      |      |      |    |     |     |      | 16.5 | HAL3 95-16      |
| 120                      | 12        |                            |      |      |      |    |     |     |      | 10.4 | HAL3 120-12     |
|                          | 16        | 88                         | 44   | 15   | 17   | 12 | 1.5 | 6.5 | 31   | 12.5 | HAL3 120-16     |
|                          | 20        |                            |      |      |      |    |     |     |      | 16.5 | HAL3 120-20     |
| 150                      | 12        |                            |      |      |      |    |     |     |      | 12.4 | HAL3 150-12     |
|                          | 16        | 100                        | 47.5 | 16   | 20.5 | 16 | 1.5 | 7.2 | 34.7 | 16.5 | HAL3 150-16     |
|                          | 20        |                            |      |      |      |    |     |     |      | 20.5 | HAL3 150-20     |
| 185                      | 12        |                            |      |      |      |    |     |     |      | 12.4 | HAL3 185-12     |
|                          | 16        | 106                        | 47.5 | 16   | 20.5 | 16 | 1.5 | 7.2 | 34.7 | 16.5 | HAL3 185-16     |
|                          | 20        |                            |      |      |      |    |     |     |      | 20.5 | HAL3 185-20     |
| 240                      | 20        | 116                        | 55.5 | 20.5 | 22   | 18 | 2   | 5.7 | 43.6 | 20.5 | HAL3 240-20     |
| 300                      | 20        | 128.5                      | 60.5 | 23   | 25   | 20 | 2   | 9.7 | 49.2 | 20.5 | HAL3 300-20     |

## ALUMINIUM SECTOR FERRULES

MATERIAL : ALUMINIUM • FINISH : NATURAL / PASSIVATED ALUMINIUM

| Cable<br>mm <sup>2</sup> | Dimensions<br>A | Product Code  |               |
|--------------------------|-----------------|---------------|---------------|
|                          |                 | 3-CORE SECTOR | 4-CORE SECTOR |
| 25                       | 66              | HAL-3F-25     | HAL-4F-25     |
| 35                       | 70              | HAL-3F-35     | HAL-4F-35     |
| 50                       | 74              | HAL-3F-50     | HAL-4F-50     |
| 70                       | 78              | HAL-3F-70     | HAL-4F-70     |
| 95                       | 84              | HAL-3F-95     | HAL-4F-95     |
| 120                      | 91              | HAL-3F-120    | HAL-4F-120    |
| 150                      | 102             | HAL-3F-150    | HAL-4F-150    |
| 185                      | 108             | HAL-3F-185    | HAL-4F-185    |
| 240                      | 118             | HAL-3F-240    | HAL-4F-240    |
| 300                      | 130             | HAL-3F-300    | HAL-4F-300    |
| 400                      | 140             | —             | —             |
| 500                      | 155             | —             | —             |
| 630                      | 172             | —             | —             |
| 800                      | —               | —             | —             |
| 1000                     | —               | —             | —             |

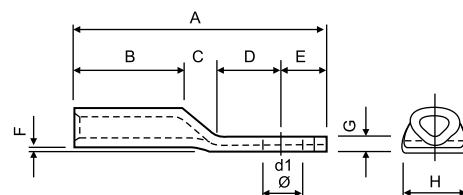
Tolerance :  $\pm 3\%$



## ALUMINIUM 4-CORE SECTOR CABLE LUGS

MATERIAL : ALUMINIUM • FINISH : NATURAL / PASSIVATED ALUMINIUM

| Cable<br>mm <sup>2</sup> | Stud<br>Ø | Dimensions in mm $\pm 3\%$ |      |      |      |      |     |     |      |      | Product<br>Code |
|--------------------------|-----------|----------------------------|------|------|------|------|-----|-----|------|------|-----------------|
|                          |           | A                          | B    | C    | D    | E    | F   | G   | H    | d1Ø  |                 |
| 25                       | 8         | 62                         | 25   | 8    | 17   | 12   | 1   | 4.1 | 15.2 | 8.4  | HAL4 25-8       |
|                          | 10        | 62                         | 25   | 8    | 17   | 12   | 1   | 4.0 | 17   | 10.4 | HAL4 25-10      |
|                          | 12        | 62                         | 25   | 8    | 17   | 12   | 1   | 2.9 | 21   | 12.5 | HAL4 25-12      |
| 35                       | 8         | 70                         | 30.5 | 10   | 18.5 | 11   | 1   | 4.4 | 17.6 | 8.4  | HAL4 35-8       |
|                          | 10        | 70                         | 30.5 | 10   | 18.5 | 11   | 1   | 3.8 | 19.5 | 10.4 | HAL4 35-10      |
|                          | 12        | 70                         | 30.5 | 10   | 18.5 | 11   | 1   | 3.6 | 21   | 12.5 | HAL4 35-12      |
| 50                       | 10        | 73.3                       | 32.5 | 11   | 18   | 12.8 | 1   | 4.5 | 20.3 | 10.4 | HAL4 50-10      |
|                          | 12        | 73.3                       | 32.5 | 11   | 18   | 12.8 | 1   | 4.0 | 20.5 | 12.5 | HAL4 50-12      |
|                          | 16        | 73.3                       | 32.5 | 11   | 18   | 12.8 | 1   | 2.9 | 21   | 16.5 | HAL4 50-16      |
| 70                       | 10        | 76.6                       | 36.5 | 11.5 | 16.5 | 12   | 1   | 5   | 23.2 | 10.4 | HAL4 70-10      |
|                          | 12        | 76.6                       | 36.5 | 11.5 | 16.5 | 12   | 1   | 4.8 | 25.5 | 12.5 | HAL4 70-12      |
|                          | 16        | 76.6                       | 36.5 | 11.5 | 16.5 | 12   | 1   | 4.6 | 26   | 16.5 | HAL4 70-16      |
| 95                       | 10        | 84                         | 39   | 15   | 17.5 | 12.5 | 1.5 | 5.5 | 27.8 | 10.4 | HAL4 95-10      |
|                          | 12        | 84                         | 39   | 15   | 17.5 | 12.5 | 1.5 | 5.5 | 27.8 | 12.5 | HAL4 95-12      |
|                          | 16        | 84                         | 39   | 15   | 17.5 | 12.5 | 1.5 | 5.5 | 27.8 | 16.5 | HAL4 95-16      |
| 120                      | 12        | 91.8                       | 45.5 | 16.8 | 17.5 | 12   | 1.5 | 6.2 | 30.8 | 12.5 | HAL4 120-12     |
|                          | 16        | 91.8                       | 45.5 | 16.8 | 17.5 | 12   | 1.5 | 6.2 | 30.8 | 16.5 | HAL4 120-16     |
|                          | 20        | 91.8                       | 45.5 | 16.8 | 17.5 | 12   | 1.5 | 6.2 | 30.8 | 20.5 | HAL4 120-20     |
| 150                      | 12        | 102                        | 47.2 | 20   | 18.3 | 16.5 | 1.5 | 7.5 | 34   | 12.4 | HAL4 150-12     |
|                          | 16        | 102                        | 47.2 | 20   | 18.3 | 16.5 | 1.5 | 7.5 | 34   | 16.5 | HAL4 150-16     |
|                          | 20        | 102                        | 47.2 | 20   | 18.3 | 16.5 | 1.5 | 7.5 | 34   | 20.5 | HAL4 150-20     |
| 185                      | 12        | 109.2                      | 53.5 | 20.2 | 19.5 | 16   | 1.5 | 7.3 | 38.3 | 12.4 | HAL4 185-12     |
|                          | 16        | 109.2                      | 53.5 | 20.2 | 19.5 | 16   | 1.5 | 7.3 | 38.3 | 16.5 | HAL4 185-16     |
|                          | 20        | 109.2                      | 53.5 | 20.2 | 19.5 | 16   | 1.5 | 7.3 | 38.3 | 20.5 | HAL4 185-20     |
| 240                      | 20        | 117                        | 55.5 | 23   | 20.2 | 17.5 | 2   | 9   | 42.5 | 20.5 | HAL4 240-20     |
| 300                      | 20        | 130                        | 60   | 23   | 27   | 20   | 2   | 11  | 49.2 | 20.5 | HAL4 300-20     |

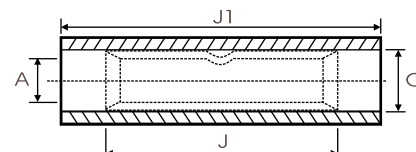
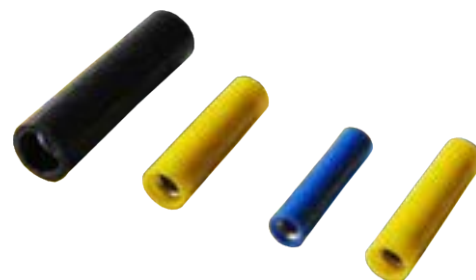


## INSULATED IN-LINE CONNECTORS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

Connectors are fully insulated with a PVC/NYLON sleeve.

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |      |       |       | Product<br>Code |
|--------------------------|----------------------------|------|-------|-------|-----------------|
|                          | A                          | C    | J     | J1    |                 |
| 1.50                     | 1.80                       | 3.70 | 12.00 | 25.00 | HTIC - 1.5      |
| 2.50                     | 2.40                       | 4.00 | 15.00 | 25.00 | HTIC - 2.5      |
| 4.00                     | 3.10                       | 4.80 | 15.00 | 25.00 | HTIC - 4        |
| 6.00                     | 3.80                       | 5.50 | 15.00 | 27.00 | HTIC - 6        |





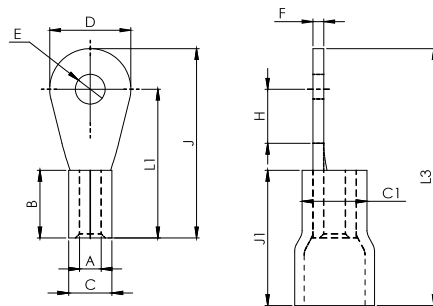
# RING TYPE TINNED COPPER CABLE

## TERMINAL ENDS - NON INSULATED & INSULATED

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

COLOUR CODING OF INSULATION SLEEVE

1.5 - RED, 2.5 - BLUE, 4 - 6 - YELLOW



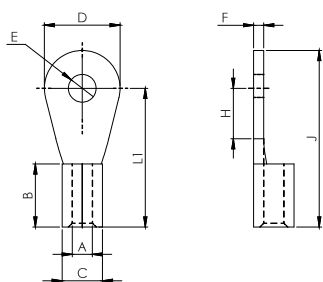
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |     |     |    |      |      |      | Non Insulated<br>Product Code | Dimensions in mm $\pm$ 3% |     |      | Insulated<br>Product Code |
|--------------------------|----------------|---------------------------|------|-----|-----|----|------|------|------|-------------------------------|---------------------------|-----|------|---------------------------|
|                          |                | A                         | C    | D   | F   | B  | H    | L1   | J    |                               | J1                        | C1  | L3   |                           |
| 1.5                      | 2.2            | 1.6                       | 3.2  | 6   | 0.8 | 5  | 4    | 11   | 14   | HR - 7103                     | 10                        | 4.8 | 19   | HRI - 7052                |
| 1.5                      | 2.6            | 1.6                       | 3.2  | 6   | 0.8 | 5  | 4    | 11   | 14   | HR - 7000                     | 10                        | 4.8 | 19   | HRI - 7053                |
| 1.5                      | 3.2            | 1.6                       | 3.2  | 6   | 0.8 | 5  | 4    | 11   | 14   | HR - 7001                     | 10                        | 4.8 | 19   | HRI - 7054                |
| 1.5                      | 3.7            | 1.6                       | 3.2  | 6   | 0.8 | 5  | 4    | 11   | 14   | HR - 7002                     | 10                        | 4.8 | 19   | HRI - 7055                |
| 1.5                      | 4.2            | 1.6                       | 3.2  | 6   | 0.8 | 5  | 4    | 11   | 14   | HR - 7003                     | 10                        | 4.8 | 19   | HRI - 7056                |
| 1.5                      | 5.2            | 1.6                       | 3.2  | 8   | 0.8 | 5  | 5    | 12   | 16   | HR - 7005                     | 10                        | 4.8 | 21   | HRI - 7062                |
| 1.5                      | 6.4            | 1.6                       | 3.2  | 10  | 0.8 | 5  | 6    | 13   | 18   | HR - 7007                     | 10                        | 4.8 | 23   | HRI - 7066                |
| 2.5                      | 3.2            | 2.3                       | 3.9  | 6.5 | 0.8 | 5  | 3.5  | 9.5  | 12.7 | HR - 7107                     | 10                        | 5.5 | 17.7 | HRI - 7068                |
| 2.5                      | 3.7            | 2.3                       | 3.9  | 6.5 | 0.8 | 5  | 3.5  | 9.5  | 12.7 | HR - 7008                     | 10                        | 5.5 | 17.7 | HRI - 7069                |
| 2.5                      | 4.2            | 2.3                       | 3.9  | 8   | 0.8 | 5  | 5    | 12   | 16   | HR - 7009                     | 10                        | 5.5 | 21   | HRI - 7071                |
| 2.5                      | 5.2            | 2.3                       | 3.9  | 8   | 0.8 | 5  | 5    | 12   | 16   | HR - 7010                     | 10                        | 5.5 | 21   | HRI - 7072                |
| 2.5                      | 6.4            | 2.3                       | 3.9  | 10  | 0.8 | 5  | 7    | 13   | 18   | HR - 7011                     | 10                        | 5.5 | 23   | HRI - 7074                |
| 2.5                      | 8.2            | 2.3                       | 3.9  | 12  | 0.8 | 5  | 9    | 16   | 22   | HR - 7013                     | 10                        | 5.5 | 27   | HRI - 7077                |
| 2.5                      | 8.2            | 2.3                       | 3.9  | 16  | 0.8 | 5  | 10   | 17   | 25   | HR - 7014                     | 10                        | 5.5 | 30   | HRI - 7079                |
| 2.5                      | 10.2           | 2.3                       | 3.9  | 16  | 0.8 | 5  | 10   | 17   | 25   | HR - 7015                     | 10                        | 5.5 | 30   | HRI - 7080                |
| 2.5                      | 12.7           | 2.3                       | 3.9  | 18  | 0.8 | 5  | 14   | 20   | 29   | HR - 7047                     | 10                        | 5.5 | 34   | HRI - 7082                |
| 4-6                      | 4.2            | 3.5                       | 5.5  | 10  | 1   | 6  | 5    | 14   | 19   | HR - 7112                     | 14                        | 7.1 | 27   | HRI - 7085                |
| 4-6                      | 5.2            | 3.5                       | 5.5  | 10  | 1   | 6  | 5    | 14   | 19   | HR - 7016                     | 14                        | 7.1 | 27   | HRI - 7086                |
| 4-6                      | 6.4            | 3.5                       | 5.5  | 12  | 1   | 6  | 6    | 14   | 20   | HR - 7017                     | 14                        | 7.1 | 28   | HRI - 7089                |
| 4-6                      | 8.2            | 3.5                       | 5.5  | 12  | 1   | 6  | 6    | 14   | 20   | HR - 7018                     | 14                        | 7.1 | 28   | HRI - 7090                |
| 4-6                      | 8.2            | 3.5                       | 5.5  | 14  | 1   | 6  | 10.5 | 18.5 | 25.5 | HR - 7020                     | 14                        | 7.1 | 33.5 | HRI - 7094                |
| 4-6                      | 9.7            | 3.5                       | 5.5  | 14  | 1   | 6  | 10.5 | 18.5 | 25.5 | HR - 7021                     | 14                        | 7.1 | 33.5 | HRI - 7095                |
| 10                       | 4.2            | 4.3                       | 6.3  | 10  | 1   | 8  | 7    | 17   | 22   | HR - 7118                     |                           |     |      |                           |
| 10                       | 5.2            | 4.3                       | 6.3  | 10  | 1   | 8  | 7    | 17   | 22   | HR - 7025                     |                           |     |      |                           |
| 10                       | 6.4            | 4.3                       | 6.3  | 12  | 1   | 8  | 7    | 17   | 23   | HR - 7120                     |                           |     |      |                           |
| 10                       | 8.2            | 4.3                       | 6.3  | 16  | 1   | 8  | 7    | 19   | 27   | HR - 7121                     |                           |     |      |                           |
| 10                       | 10.2           | 4.3                       | 6.3  | 22  | 1   | 8  | 10   | 23   | 34   | HR - 7123                     |                           |     |      |                           |
| 10                       | 12.7           | 4.3                       | 6.3  | 22  | 1   | 8  | 10   | 23   | 34   | HR - 7028                     |                           |     |      |                           |
| 16                       | 6.4            | 5.6                       | 8    | 16  | 1.2 | 10 | 8    | 22   | 30   | HR - 7126                     |                           |     |      |                           |
| 16                       | 8.2            | 5.6                       | 8    | 16  | 1.2 | 10 | 8    | 22   | 30   | HR - 7030                     |                           |     |      |                           |
| 16                       | 10.2           | 5.6                       | 8    | 22  | 1.2 | 10 | 8    | 24   | 35   | HR - 7128                     |                           |     |      |                           |
| 16                       | 12.7           | 5.6                       | 8    | 22  | 1.2 | 10 | 8    | 24   | 35   | HR - 7033                     |                           |     |      |                           |
| 25                       | 6.4            | 7.5                       | 11.1 | 16  | 1.8 | 11 | 6    | 22   | 30   | HR - 7129                     |                           |     |      |                           |
| 25                       | 8.2            | 7.5                       | 11.1 | 16  | 1.8 | 11 | 6    | 22   | 30   | HR - 7034                     |                           |     |      |                           |
| 25                       | 10.2           | 7.5                       | 11.1 | 16  | 1.8 | 11 | 6    | 22   | 30   | HR - 7035                     |                           |     |      |                           |
| 25                       | 12.7           | 7.5                       | 11.1 | 22  | 1.8 | 11 | 14   | 31   | 42   | HR - 7037                     |                           |     |      |                           |
| 35                       | 6.4            | 9                         | 12.6 | 16  | 1.8 | 12 | 6    | 23   | 31   | HR - 7133                     |                           |     |      |                           |
| 35                       | 8.2            | 9                         | 12.6 | 16  | 1.8 | 12 | 6    | 23   | 31   | HR - 7038                     |                           |     |      |                           |
| 35                       | 10.2           | 9                         | 12.6 | 22  | 1.8 | 12 | 15   | 31   | 42   | HR - 7135                     |                           |     |      |                           |
| 35                       | 12.7           | 9                         | 12.6 | 22  | 1.8 | 12 | 15   | 31   | 42   | HR - 7040                     |                           |     |      |                           |





## RING TYPE TINNED COPPER CABLE TERMINAL ENDS ( NON INSULATED )

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED



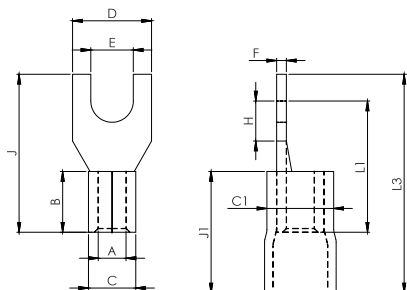
| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |      |    |     |    |    |    |    | Non Insulated<br>Product Code |
|--------------------------|----------------|---------------------------|------|----|-----|----|----|----|----|-------------------------------|
|                          |                | A                         | C    | D  | F   | B  | H  | L1 | J  |                               |
| 50                       | 8.2            | 10.5                      | 14.1 | 18 | 1.8 | 16 | 12 | 34 | 43 | HR - 7136                     |
| 50                       | 10.2           | 10.5                      | 14.1 | 24 | 1.8 | 16 | 14 | 36 | 48 | HR - 7138                     |
| 50                       | 12.7           | 10.5                      | 14.1 | 24 | 1.8 | 16 | 14 | 36 | 48 | HR - 7042                     |
| 50                       | 16.2           | 10.5                      | 14.1 | 32 | 1.8 | 16 | 15 | 38 | 54 | HR - 7139                     |
| 70                       | 10.2           | 12                        | 16   | 22 | 2   | 18 | 11 | 36 | 47 | HR - 7140                     |
| 70                       | 12.7           | 12                        | 16   | 22 | 2   | 18 | 11 | 36 | 47 | HR - 7043                     |
| 70                       | 16.2           | 12                        | 16   | 28 | 2   | 18 | 16 | 40 | 54 | HR - 7142                     |
| 95                       | 10.2           | 13.5                      | 18.1 | 24 | 2.3 | 20 | 12 | 38 | 50 | HR - 7144                     |
| 95                       | 12.7           | 13.5                      | 18.1 | 24 | 2.3 | 20 | 12 | 38 | 50 | HR - 7044                     |
| 95                       | 16.2           | 13.5                      | 18.1 | 28 | 2.3 | 20 | 17 | 44 | 58 | HR - 7145                     |
| 120                      | 12.7           | 15                        | 20.2 | 26 | 2.6 | 22 | 7  | 39 | 52 | HR - 7146                     |
| 120                      | 23             | 15                        | 20.2 | 40 | 2.6 | 22 | 20 | 50 | 72 | HR - 7148                     |
| 150                      | 16.2           | 16.5                      | 23.7 | 40 | 3.6 | 24 | 20 | 54 | 74 | HR - 7150                     |
| 150                      | 20.3           | 16.5                      | 23.7 | 40 | 3.6 | 24 | 20 | 54 | 74 | HR - 7046                     |

## FORK TYPE TINNED COPPER CABLE TERMINAL ENDS (NON INSULATED & INSULATED)

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

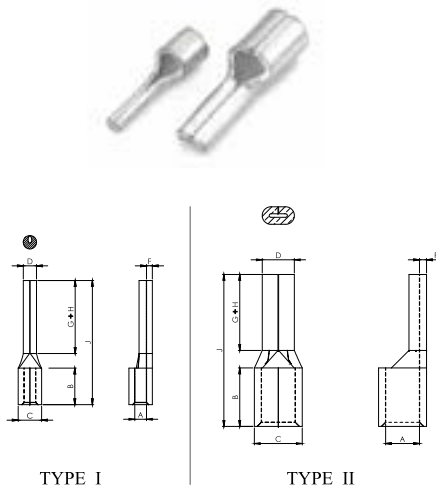
COLOUR CODING OF INSULATION SLEEVE

1.5 : RED, 2.5 : BLUE, 4 - 6 : YELLOW, 10 : BLACK



| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm $\pm$ 3% |     |      |     |     |     |    |      | Non Insulated<br>Product Code | Dimensions in mm |    |      | Insulated<br>Product Code |
|--------------------------|----------------|---------------------------|-----|------|-----|-----|-----|----|------|-------------------------------|------------------|----|------|---------------------------|
|                          |                | A                         | C   | D    | F   | B   | H   | J  | L1   |                               | C1               | J1 | L3   |                           |
| 1.5                      | 5.1            | 1.6                       | 3.2 | 8    | 0.8 | 5   | 10  | 21 | 17   | HF - 7214                     | 4.8              | 10 | 26   | HFI - 7925                |
|                          | 3.5            | 1.6                       | 3.2 | 6.8  | 0.8 | 5   | 4.8 | 14 | 8.8  | HF - 7249                     | 4.8              | 10 | 19   | HFI - 7926                |
|                          | 3              | 2                         | 2.8 | 6.2  | 0.4 | 5   | 3.1 | 13 | 10.5 | HF - 7250                     | 4.8              | 10 | 18   | HFI - 7927                |
| 2.5                      | 3.5            | 2.3                       | 3.9 | 6.5  | 0.8 | 5   | 4.3 | 15 | 11.8 | HF - 7251                     | 5.5              | 10 | 20   | HFI - 7928                |
|                          | 5              | 2.6                       | 4.6 | 10.6 | 1.6 | 6.2 | 6.2 | 21 | 12.4 | HF - 7280                     | 5.5              | 10 | 24.8 | HFI - 7929                |
| 4 - 6                    | 3.1            | 3.5                       | 5.5 | 6    | 1   | 6   | 5.5 | 15 | 11.5 | HF - 7252                     | 7.1              | 14 | 23   | HFI - 7930                |
|                          | 3.5            | 3.5                       | 5.5 | 6    | 1   | 6   | 5   | 15 | 11   | HF - 7253                     | 7.1              | 14 | 23   | HFI - 7931                |
| 10                       | 6.5            | 4.5                       | 6.9 | 16   | 1.2 | 8   | 11  | 27 | 19   | HF - 7254                     | 7.9              | 16 | 35   | HFI - 7932                |
|                          | 8.2            | 4.5                       | 6.9 | 16   | 1.2 | 8   | 11  | 27 | 19   | HF - 7255                     | 7.9              | 16 | 35   | HFI - 7933                |

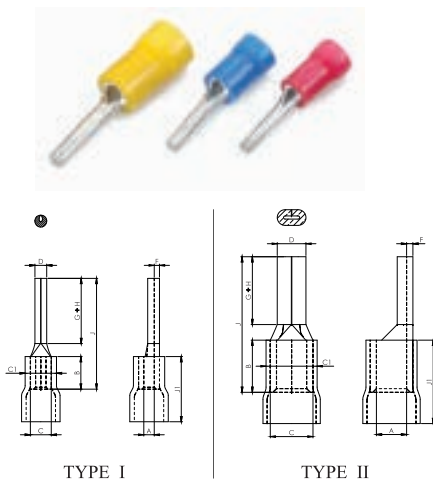
## COPPER PIN TYPE CABLE TERMINAL ENDS



| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |      |     |     |    |     |    | TYPE | Product<br>Code |
|--------------------------|----------------------------|------|-----|-----|----|-----|----|------|-----------------|
|                          | A                          | C    | D   | F   | B  | G+H | J  |      |                 |
| 1.5                      | 1.6                        | 3.2  | 1.9 | 0.8 | 5  | 10  | 17 | I    | HP - 9          |
| 2.5                      | 2.3                        | 3.9  | 1.9 | 0.8 | 5  | 10  | 17 | I    | HP - 1          |
| 4                        | 2.9                        | 4.9  | 2.7 | 1   | 6  | 10  | 20 | I    | HP - 3          |
| 6                        | 3.6                        | 5.6  | 2.7 | 1   | 6  | 10  | 20 | I    | HP - 5          |
| 6                        | 4                          | 6    | 2.7 | 1   | 6  | 10  | 20 | I    | HP - 6          |
| 10                       | 4.5                        | 6.5  | 4.3 | 1   | 8  | 12  | 22 | II   | HP - 7          |
| 16                       | 5.8                        | 8.2  | 5.5 | 1.2 | 10 | 13  | 26 | II   | HP - 8          |
| 25                       | 8.1                        | 11.1 | 7.2 | 1.5 | 11 | 15  | 33 | II   | HP - 10         |
| 35                       | 9                          | 12.6 | 8.2 | 1.8 | 12 | 15  | 33 | II   | HP - 11         |
| 50                       | 10.5                       | 14.1 | 9   | 1.8 | 16 | 19  | 41 | II   | HP - 12         |
| 70                       | 12                         | 16   | 10  | 2   | 16 | 22  | 46 | II   | HP - 13         |
| 95                       | 13.5                       | 18.1 | 10  | 2.3 | 20 | 23  | 51 | II   | HP - 14         |

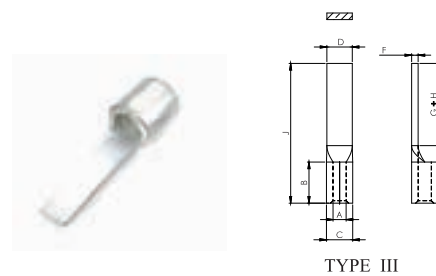
## COPPER INSULATED PIN TYPE CABLE TERMINAL ENDS

COLOUR CODING OF INSULATION SLEEVE 1.5 - RED, 2.5 - BLUE, 4 - 6 - YELLOW



| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |     |     |     |    |     |    |     |     | TYPE | Product<br>Code |
|--------------------------|----------------------------|-----|-----|-----|----|-----|----|-----|-----|------|-----------------|
|                          | A                          | C   | D   | F   | B  | G+H | J  | C 1 | J 1 |      |                 |
| 1.5                      | 1.6                        | 3.2 | 1.9 | 0.8 | 5  | 10  | 17 | 4.8 | 10  | I    | HPI - 17        |
| 2.5                      | 2.3                        | 3.9 | 1.9 | 0.8 | 5  | 10  | 17 | 5.5 | 10  | I    | HPI - 18        |
| 4                        | 2.9                        | 4.9 | 2.7 | 1   | 6  | 10  | 20 | 7.1 | 14  | I    | HPI - 20        |
| 6                        | 3.6                        | 5.6 | 2.7 | 1   | 6  | 10  | 20 | 7.1 | 14  | I    | HPI - 22        |
| 6                        | 4                          | 6   | 2.7 | 1   | 6  | 10  | 20 | 7.9 | 14  | I    | HPI - 23        |
| 10                       | 4.5                        | 6.5 | 4.3 | 1   | 8  | 12  | 22 | 7.9 | 16  | II   | HPI - 24        |
| 16                       | 5.8                        | 8.2 | 5.5 | 1.2 | 10 | 13  | 26 | 10  | 20  | II   | HPI - 25        |

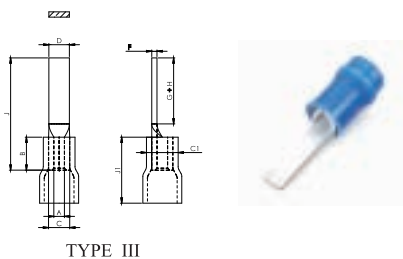
## COPPER BLADE TYPE CABLE TERMINAL ENDS



| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |     |     |     |     |      |    | Product<br>Code |
|--------------------------|----------------------------|-----|-----|-----|-----|------|----|-----------------|
|                          | A                          | C   | D   | F   | B   | G+H  | J  |                 |
| 1.5                      | 1.6                        | 3.2 | 3.1 | 0.8 | 5   | 10   | 17 | HP - 35         |
| 2.5                      | 2.3                        | 3.9 | 3.1 | 0.8 | 5   | 10   | 17 | HP - 2          |
| 4 - 6                    | 3.6                        | 5.6 | 5.1 | 1   | 6   | 10   | 20 | HP - 4          |
| 6                        | 4                          | 6   | 5.7 | 1   | 6.4 | 12.4 | 20 | HP - 15         |

## COPPER INSULATED BLADE TYPE CABLE TERMINAL ENDS

COLOUR CODING OF INSULATION SLEEVE 1.5 - RED, 2.5 - BLUE, 4 - 6 - YELLOW

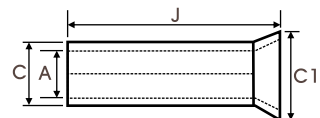


| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |     |     |     |   |     |    |     |     | Product<br>Code |
|--------------------------|----------------------------|-----|-----|-----|---|-----|----|-----|-----|-----------------|
|                          | A                          | C   | D   | F   | B | G+H | J  | C 1 | J 1 |                 |
| 1.5                      | 1.6                        | 3.2 | 3.1 | 0.8 | 5 | 10  | 17 | 4.8 | 10  | HPI - 40        |
| 2.5                      | 2.3                        | 3.9 | 3.1 | 0.8 | 5 | 10  | 17 | 5.5 | 10  | HPI - 19        |
| 4                        | 3.6                        | 5.6 | 5.1 | 1   | 6 | 10  | 20 | 7.1 | 14  | HPI - 21        |

## COPPER END SEALING FERRULES

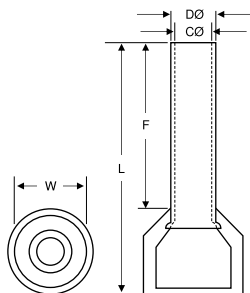
MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |     |    | Product<br>Code |
|--------------------------|---------------------------|------|-----|----|-----------------|
|                          | A                         | C    | C 1 | J  |                 |
| 0.5                      | 1                         | 1.4  | 2.1 | 6  | HSF - 508       |
| 0.75                     | 1.4                       | 1.8  | 2.5 | 6  | HSF - 509       |
| 1                        | 1.6                       | 2    | 2.7 | 6  | HSF - 510       |
|                          | 1.6                       | 2    | 2.7 | 10 | HSF - 511       |
| 1.5                      | 1.8                       | 2.2  | 2.9 | 7  | HSF - 512       |
|                          | 1.8                       | 2.2  | 2.9 | 10 | HSF - 513       |
| 2.5                      | 2.3                       | 2.7  | 2.9 | 7  | HSF - 514       |
|                          | 2.3                       | 2.7  | 3.5 | 12 | HSF - 515       |
| 4                        | 2.8                       | 3.2  | 4   | 9  | HSF - 516       |
|                          | 2.8                       | 3.2  | 4   | 12 | HSF - 517       |
| 6                        | 3.7                       | 4.1  | 4.8 | 10 | HSF - 518       |
|                          | 3.7                       | 4.1  | 4.8 | 12 | HSF - 519       |
|                          | 3.7                       | 4.1  | 4.8 | 15 | HSF - 520       |
| 10                       | 4.6                       | 5    | 5.8 | 12 | HSF - 521       |
|                          | 4.6                       | 5    | 5.8 | 15 | HSF - 522       |
|                          | 4.6                       | 5    | 5.8 | 18 | HSF - 523       |
| 16                       | 5.9                       | 6.3  | 7.5 | 12 | HSF - 524       |
|                          | 5.9                       | 6.3  | 7.5 | 15 | HSF - 525       |
|                          | 5.9                       | 6.3  | 7.5 | 18 | HSF - 526       |
| 25                       | 6.7                       | 7.2  | 9   | 12 | HSF - 527       |
|                          | 7.3                       | 7.9  | 9.5 | 12 | HSF - 528       |
|                          | 7.3                       | 7.9  | 9.5 | 15 | HSF - 529       |
|                          | 7.3                       | 7.9  | 9.5 | 18 | HSF - 530       |
|                          | 7.3                       | 7.9  | 9.5 | 20 | HSF - 531       |
| 35                       | 8.3                       | 8.9  | 11  | 15 | HSF - 532       |
|                          | 8.3                       | 8.9  | 11  | 18 | HSF - 533       |
|                          | 8.3                       | 8.9  | 11  | 20 | HSF - 534       |
|                          | 8.3                       | 8.9  | 11  | 25 | HSF - 535       |
| 50                       | 10.3                      | 10.9 | 13  | 18 | HSF - 536       |
|                          | 10.3                      | 10.9 | 13  | 22 | HSF - 537       |
|                          | 10.3                      | 10.9 | 13  | 25 | HSF - 538       |
|                          | 10.3                      | 10.9 | 13  | 30 | HSF - 539       |
| 70                       | 12.5                      | 13.3 | 15  | 22 | HSF - 540       |
|                          | 12.5                      | 13.3 | 15  | 25 | HSF - 541       |
|                          | 12.5                      | 13.3 | 15  | 30 | HSF - 542       |
| 95                       | 14.5                      | 15.3 | 17  | 25 | HSF - 543       |
|                          | 14.5                      | 15.3 | 17  | 30 | HSF - 544       |
|                          | 14.5                      | 15.3 | 17  | 32 | HSF - 545       |
| 120                      | 16.5                      | 17.5 | 19  | 30 | HSF - 546       |
|                          | 16.5                      | 17.5 | 19  | 32 | HSF - 547       |
|                          | 16.5                      | 17.5 | 19  | 34 | HSF - 548       |



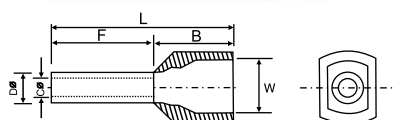
## INSULATED END-SEALING FERRULES

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED



| Cable<br>mm <sup>2</sup> | Colour of<br>Insulation | Dimensions in mm $\pm$ 3% |      |      |      |      | Product<br>Code |
|--------------------------|-------------------------|---------------------------|------|------|------|------|-----------------|
|                          |                         | F                         | L    | W    | DØ   | CØ   |                 |
| 0.5                      | White                   | 6.0                       | 12.0 | 2.6  | 1.3  | 1.0  | HE -0506        |
|                          |                         | 8.0                       | 14.0 |      |      |      | HE -0508        |
|                          |                         | 10.0                      | 16.4 |      |      |      | HE -0510        |
|                          |                         | 12.0                      | 18.4 |      |      |      | HE -0512        |
| 0.75                     | Blue                    | 6.0                       | 12.4 | 2.8  | 1.5  | 1.2  | HE -7506        |
|                          |                         | 8.0                       | 14.4 |      |      |      | HE -7508        |
|                          |                         | 10.0                      | 16.4 |      |      |      | HE -7510        |
|                          |                         | 12.0                      | 18.4 |      |      |      | HE -7512        |
| 1.0                      | Red                     | 6.0                       | 12.0 | 3.0  | 1.7  | 1.4  | HE -1006        |
|                          |                         | 8.0                       | 14.0 |      |      |      | HE -1008        |
|                          |                         | 10.0                      | 16.0 |      |      |      | HE -1010        |
|                          |                         | 12.0                      | 18.0 |      |      |      | HE -1012        |
| 1.5                      | Black                   | 8.0                       | 14.6 | 3.5  | 2.0  | 1.7  | HE -1508        |
|                          |                         | 10.0                      | 16.4 |      |      |      | HE -1510        |
|                          |                         | 12.0                      | 18.4 |      |      |      | HE -1512        |
|                          |                         | 18.0                      | 24.4 |      |      |      | HE -1518        |
| 2.5                      | Grey                    | 8.0                       | 15.2 | 4.0  | 2.6  | 2.3  | HE -2508        |
|                          |                         | 10.0                      | 17.2 |      |      |      | HE -2510        |
|                          |                         | 12.0                      | 19.2 |      |      |      | HE -2512        |
|                          |                         | 18.0                      | 25.2 |      |      |      | HE -2518        |
| 4.0                      | Orange                  | 9.0                       | 16.5 | 4.4  | 3.2  | 2.8  | HE -4009        |
|                          |                         | 12.0                      | 19.5 |      |      |      | HE -4012        |
|                          |                         | 18.0                      | 25.5 |      |      |      | HE -4018        |
| 6.0                      | Green                   | 10.0                      | 18.0 | 6.3  | 3.9  | 3.5  | HE -6010        |
|                          |                         | 12.0                      | 20.0 |      |      |      | HE -6012        |
|                          |                         | 18.0                      | 26.0 |      |      |      | HE -6018        |
| 10.0                     | Brown                   | 12.0                      | 21.5 | 7.6  | 4.9  | 4.5  | HE -10-12       |
|                          |                         | 18.0                      | 27.5 |      |      |      | HE -10-18       |
| 16.0                     | White                   | 12.0                      | 22.2 | 8.8  | 6.2  | 5.8  | HE -16-12       |
|                          |                         | 18.0                      | 28.2 |      |      |      | HE -16-18       |
| 25.0                     | Brown                   | 16.0                      | 29.0 | 11.2 | 7.9  | 7.5  | HE -25-16       |
|                          |                         | 22.0                      | 35.0 |      |      |      | HE -25-22       |
| 35.0                     | White                   | 16.0                      | 30.0 | 12.7 | 8.7  | 8.3  | HE -35-16       |
|                          |                         | 25.0                      | 39.0 |      |      |      | HE -35-25       |
| 50.0                     | Olive                   | 20.0                      | 36.0 | 15.3 | 10.9 | 10.3 | HE -50-20       |
|                          |                         | 25.0                      | 41.0 |      |      |      | HE -50-25       |

## TWIN END SEALING FERRULES



| Colour of<br>Insulation | Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm$ 3% |      |      |      |     |     | Product<br>Code |
|-------------------------|--------------------------|---------------------------|------|------|------|-----|-----|-----------------|
|                         |                          | F                         | L    | W    | B    | D   | C   |                 |
| White                   | 2 x 0.50                 | 8.0                       | 14.5 | 5.0  | 6.5  | 1.8 | 1.5 | HTSFI - 0508    |
|                         | 2 x 0.75                 | 8.0                       | 14.7 | 5.5  | 6.7  | 2.1 | 1.8 | HTSFI - 7508    |
| Grey                    | 2 x 0.75                 | 10.0                      | 16.7 | 5.5  | 7.1  | 2.3 | 2.0 | HTSFI - 7510    |
|                         | 2 x 1.00                 | 8.0                       | 15.1 | 5.5  | 7.1  | 2.3 | 2.0 | HTSFI - 1008    |
|                         | 2 x 1.00                 | 10.0                      | 17.1 | 5.5  | 7.2  | 2.6 | 2.3 | HTSFI - 1010    |
|                         | 2 x 1.50                 | 8.0                       | 15.5 | 6.4  | 7.5  | 2.6 | 2.3 | HTSFI - 1508    |
|                         | 2 x 1.50                 | 12.0                      | 19.5 | 6.4  | 8.5  | 3.3 | 2.9 | HTSFI - 1512    |
|                         | 2 x 2.50                 | 10.0                      | 18.5 | 8.0  | 8.5  | 3.3 | 2.9 | HTSFI - 2510    |
| Blue                    | 2 x 2.50                 | 13.0                      | 21.5 | 8.0  | 5.0  | 5.0 | 5.0 | HTSFI - 2513    |
| Grey                    | 2 x 4.00                 | 12.0                      | 23.1 | 8.8  | 11.1 | 4.2 | 3.8 | HTSFI - 4012    |
| Yellow                  | 2 x 6.00                 | 14.0                      | 26.1 | 9.5  | 12.1 | 5.3 | 4.9 | HTSFI - 6014    |
| Red                     | 2 x 10.00                | 14.0                      | 27.0 | 13.0 | 12.0 | 7.0 | 7.0 | HTSFI - 10-14   |
| Blue                    | 2 x 16.00                | 14.0                      | 31.3 | 19.0 | 17.0 | 8.7 | 8.3 | HTSFI - 16-14   |

## SNAP ON TERMINALS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

COLOUR CODING OF INSULATION SLEEVE 1.5 - RED, 2.5 - BLUE, 4 - 6 - YELLOW

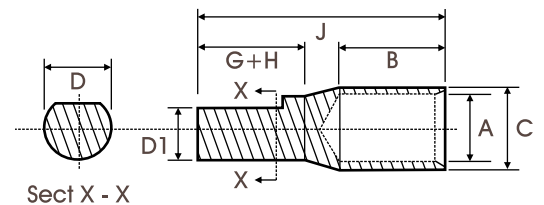
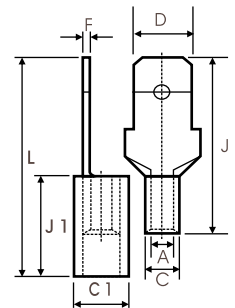
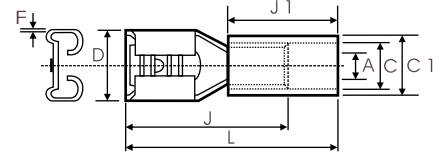
| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |    |     |     |     |    |    |     | Product<br>Code |
|--------------------------|----------------------------|----|-----|-----|-----|----|----|-----|-----------------|
|                          | D                          | J  | A   | C   | F   | J1 | L  | C1  |                 |
| 1.5                      | 6.6                        | 16 | 2.4 | 3.2 | 0.4 | -  | -  | -   | HSP - 8351      |
| 1.5                      | 6.6                        | 16 | 2.4 | 3.2 | 0.4 | 10 | 21 | 4.8 | HSP - 8351 (I)  |
| 2.5                      | 6.6                        | 16 | 3.1 | 3.9 | 0.4 | -  | -  | -   | HSP - 8349      |
| 2.5                      | 6.6                        | 16 | 3.1 | 3.9 | 0.4 | 10 | 21 | 5.5 | HSP - 8349 (I)  |
| 4-6                      | 6.6                        | 19 | 3.8 | 5.5 | 0.8 | -  | -  | -   | HSP - 8451      |
| 4-6                      | 6.6                        | 19 | 3.8 | 5.5 | 0.8 | 14 | 26 | 7.1 | HSP - 8451 (I)  |

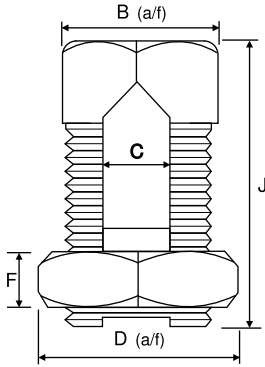
| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |    |     |     |     |    |    |     | Product<br>Code |
|--------------------------|----------------------------|----|-----|-----|-----|----|----|-----|-----------------|
|                          | D                          | J  | A   | C   | F   | J1 | L  | C1  |                 |
| 1.5                      | 6.4                        | 20 | 1.6 | 3.2 | 0.8 | -  | -  | -   | HSP - 8362      |
| 1.5                      | 6.4                        | 20 | 1.6 | 3.2 | 0.8 | 10 | 23 | 4.8 | HSP - 8362 (I)  |
| 2.5                      | 6.4                        | 20 | 2.3 | 3.9 | 0.8 | -  | -  | -   | HSP - 8363      |
| 2.5                      | 6.4                        | 20 | 2.3 | 3.9 | 0.8 | 10 | 23 | 5.5 | HSP - 8363 (I)  |
| 4-6                      | 6.4                        | 20 | 3.8 | 5.5 | 0.8 | -  | -  | -   | HSP - 8463      |
| 4-6                      | 6.4                        | 20 | 3.8 | 5.5 | 0.8 | 14 | 25 | 7.1 | HSP - 8463 (I)  |

## COPPER REDUCER PIN TYPE TERMINAL ENDS

MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm $\pm 3\%$ |      |      |      |    |     |    | Product<br>Code |
|--------------------------|----------------------------|------|------|------|----|-----|----|-----------------|
|                          | A                          | C    | D    | D1   | B  | G+H | J  |                 |
| 2.5                      | 2.5                        | 4.7  | 3.8  | 3.3  | 6  | 10  | 20 | HPC - 7         |
| 4                        | 2.8                        | 4.7  | 3.8  | 3.3  | 6  | 10  | 20 | HPC - 16        |
| 6                        | 3.1                        | 4.7  | 3.8  | 3.3  | 6  | 10  | 20 | HPC - 18        |
| 10                       | 3.8                        | 5.5  | 3.8  | 3.3  | 9  | 10  | 23 | HPC - 20        |
| 16                       | 5.3                        | 7.1  | 3.8  | 3.3  | 12 | 13  | 30 | HPC - 2         |
| 25                       | 7                          | 9    | 6    | 5.5  | 12 | 15  | 32 | HPC - 25        |
| 25                       | 7                          | 9    | 7.5  | 6.5  | 12 | 20  | 37 | HPC - 3         |
| 35                       | 8                          | 10   | 7.5  | 6.5  | 12 | 20  | 37 | HPC - 4         |
| 50                       | 9.2                        | 11.2 | 7.5  | 6.5  | 16 | 20  | 41 | HPC - 26        |
| 70                       | 11.5                       | 13.8 | 7.5  | 6.5  | 18 | 20  | 43 | HPC - 27        |
| 70                       | 11.5                       | 13.8 | 11.5 | 10.5 | 18 | 25  | 48 | HPC - 6         |
| 70                       | 11.5                       | 13.8 | 11.5 | 10.5 | 18 | 32  | 55 | HPC - 28        |
| 95                       | 12.8                       | 15.6 | 11.5 | 10.5 | 20 | 25  | 51 | HPC - 29        |
| 95                       | 12.8                       | 15.6 | 7.5  | 6.5  | 20 | 22  | 48 | HPC - 31        |
| 95                       | 12.8                       | 15.6 | 15.6 | 14   | 20 | 27  | 53 | HPC - 8         |
| 120                      | 14.8                       | 17.8 | 11.5 | 10.5 | 22 | 25  | 53 | HPC - 32        |
| 120                      | 14.8                       | 17.8 | 7.5  | 6.5  | 22 | 22  | 50 | HPC - 34        |
| 120                      | 14.8                       | 17.8 | 11.5 | 10.5 | 22 | 32  | 60 | HPC - 35        |
| 150                      | 16                         | 19.6 | 11.5 | 10.5 | 26 | 32  | 64 | HPC - 37        |
| 185                      | 18                         | 22   | 11.5 | 10.5 | 32 | 32  | 70 | HPC - 38        |
| 240                      | 22                         | 26   | 16   | 15   | 38 | 42  | 88 | HPC - 44        |
| 300                      | 24                         | 28.7 | 16   | 15   | 42 | 42  | 92 | HPC - 45        |
| 400                      | 28                         | 33.2 | 15.6 | 14   | 46 | 32  | 90 | HPC - 48        |





## LINE TAPS / SPLIT BOLTS

**MATERIAL : BRASS • FINISH : NATURAL**

'HEX' manufactures a vast range of line taps to meet the materials and dimensional specifications laid by different international standards. Brass line taps are made with high tensile brass as per BS 2874 - CZ 112. Threads are formed by rolling process giving the nut extra clamping force. Pressure pads are made from extruded bars (not cast), preventing the pads from cracking Brass line taps are manufactured in passivated natural brass with electro tinned finish. They are also supplied in high conductivity copper.

| Size                | J     | C     | B a/f | D a/f | F     | Product Code |
|---------------------|-------|-------|-------|-------|-------|--------------|
| 6 mm <sup>2</sup>   | 24.00 | 3.20  | 10.00 | 12.70 | 6.50  | HSBC - 6     |
| 10 mm <sup>2</sup>  | 27.30 | 5.50  | 12.70 | 19.00 | 5.60  | HSBC - 10    |
| 16 mm <sup>2</sup>  | 27.30 | 5.50  | 12.70 | 19.00 | 5.60  | HSBC - 16    |
| 25 mm <sup>2</sup>  | 28.90 | 6.90  | 15.00 | 19.00 | 5.60  | HSBC - 25    |
| 35 mm <sup>2</sup>  | 34.80 | 8.10  | 18.00 | 24.00 | 7.10  | HSBC - 35    |
| 50 mm <sup>2</sup>  | 42.00 | 9.60  | 23.00 | 27.30 | 9.40  | HSBC - 50    |
| 70 mm <sup>2</sup>  | 47.50 | 11.17 | 23.00 | 30.00 | 9.40  | HSBC - 70    |
| 95 mm <sup>2</sup>  | 53.00 | 14.00 | 25.40 | 34.30 | 9.40  | HSBC - 95    |
| 120 mm <sup>2</sup> | 59.00 | 16.00 | 30.00 | 35.55 | 12.20 | HSBC - 120   |
| 150 mm <sup>2</sup> | 59.00 | 16.00 | 30.00 | 35.55 | 12.20 | HSBC - 150   |
| 185 mm <sup>2</sup> | 59.00 | 18.00 | 32.00 | 38.10 | 12.20 | HSBC - 185   |
| 240 mm <sup>2</sup> | 76.20 | 22.20 | 39.00 | 48.25 | 14.60 | HSBC - 240   |
| 300 mm <sup>2</sup> | 76.20 | 23.00 | 39.00 | 48.25 | 14.60 | HSBC - 300   |
| 400 mm <sup>2</sup> | 76.50 | 26.00 | 48.00 | 56.00 | 16.00 | HSBC - 400   |
| 500 mm <sup>2</sup> | 80.00 | 30.00 | 55.00 | 65.00 | 16.00 | HSBC - 500   |

\* Add 'T' for Tinned Finish & 'C' for Copper Finish after Product Code.

## SPLIT BOLT CONNECTOR WITH ROUND HEAD

HEX has a complete range of split bolts that are used for joining aerial hard drawn copper conductors or insulated copper conductors. The split bolts are made from a high conductivity copper alloy with captive saddle which applies a distributed pressure to conductors. The round head is machined to accommodate standard spanner sizes. They can be supplied in natural copper alloy or electro tinned.

Technical Data :

Conductive Material

Copper alloy

Operating Temperature

-55°C to 100°C

Electroplating Material

Tin 99.7% pure

| Natural Brass | Electro Tinned | Max Cond. Size (mm <sup>2</sup> ) | Slot Width mm <sup>2</sup> |
|---------------|----------------|-----------------------------------|----------------------------|
| HSBC12        | HSBC12T        | 25                                | 6.6                        |
| HSBC22        | HSBC22T        | 16                                | 5.3                        |
| HSBC24        | HSBC24T        | 35                                | 8.3                        |
| HSBC25        | HSBC25T        | 70                                | 10.9                       |
| HSBC26        | HSBC26T        | 95                                | 12.9                       |
| HSBC28        | HSBC28T        | 185                               | 18.5                       |



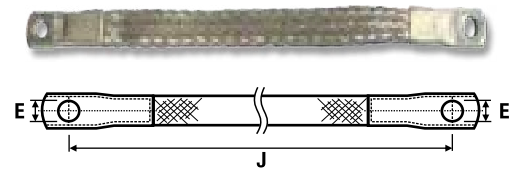
## \* TINNED COPPER FLEXIBLE BRAIDS -

CRIMPED with CONNECTORS / TERMINALS (LUGS)

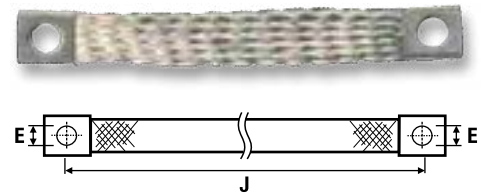
MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Dimensions in mm |     | Current<br>Rating<br>AMP | Product Code<br>Crimped with<br>lugs | Product Code<br>Crimped with<br>connector |
|--------------------------|------------------|-----|--------------------------|--------------------------------------|-------------------------------------------|
|                          | J                | E   |                          |                                      |                                           |
| 4                        | 50               | 6   | 50                       | HFT4 - 50 - 50                       | HFC4 50 - 50                              |
|                          | 100              | 6   | 50                       | HFT4 - 100 - 50                      | HFC4 100 - 50                             |
|                          | 150              | 6   | 50                       | HFT4 - 150 - 50                      | HFC4 150 - 50                             |
|                          | 200              | 6   | 50                       | HFT4 - 200 - 50                      | HFC4 200 - 50                             |
| 10                       | 50               | 6   | 90                       | HFT10 - 50 - 90                      | HFC10 50 - 90                             |
|                          | 100              | 6   | 90                       | HFT10 - 100 - 90                     | HFC10 100 - 90                            |
|                          | 150              | 6   | 90                       | HFT10 - 150 - 90                     | HFC10 150 - 90                            |
|                          | 200              | 6   | 90                       | HFT10 - 200 - 90                     | HFC10 200 - 90                            |
| 16                       | 100              | 8.5 | 125                      | HFT16 - 100 - 125                    | HFC16 100 - 125                           |
|                          | 150              | 8.5 | 125                      | HFT16 - 150 - 125                    | HFC16 150 - 125                           |
|                          | 200              | 8.5 | 125                      | HFT16 - 200 - 125                    | HFC16 200 - 125                           |
|                          | 250              | 8.5 | 125                      | HFT16 - 250 - 125                    | HFC16 250 - 125                           |
|                          | 300              | 8.5 | 125                      | HFT16 - 300 - 125                    | HFC16 300 - 125                           |
|                          |                  |     |                          |                                      |                                           |
| 25                       | 100              | 10  | 160                      | HFT25 - 100 - 160                    | HFC25 100 - 160                           |
|                          | 150              | 10  | 160                      | HFT25 - 150 - 160                    | HFC25 150 - 160                           |
|                          | 200              | 10  | 160                      | HFT25 - 200 - 160                    | HFC25 200 - 160                           |
|                          | 250              | 10  | 160                      | HFT25 - 250 - 160                    | HFC25 250 - 160                           |
|                          | 300              | 10  | 160                      | HFT25 - 300 - 160                    | HFC25 300 - 160                           |
| 30                       | 100              | 10  | 180                      | HFT30 - 100 - 180                    | HFC30 100 - 180                           |
|                          | 150              | 10  | 180                      | HFT30 - 150 - 180                    | HFC30 150 - 180                           |
|                          | 200              | 10  | 180                      | HFT30 - 200 - 180                    | HFC30 200 - 180                           |
|                          | 250              | 10  | 180                      | HFT30 - 250 - 180                    | HFC30 250 - 180                           |
|                          | 300              | 10  | 180                      | HFT30 - 300 - 180                    | HFC30 300 - 180                           |
| 35                       | 100              | 10  | 210                      | HFT35 - 100 - 210                    | HFC35 100 - 210                           |
|                          | 150              | 10  | 210                      | HFT35 - 150 - 210                    | HFC35 150 - 210                           |
|                          | 200              | 10  | 210                      | HFT35 - 200 - 210                    | HFC35 200 - 210                           |
|                          | 250              | 10  | 210                      | HFT35 - 250 - 210                    | HFC35 250 - 210                           |
|                          | 300              | 10  | 210                      | HFT35 - 300 - 210                    | HFC35 300 - 210                           |
| 50                       | 100              | 12  | 250                      | HFT50 - 100 - 250                    | HFC50 100 - 250                           |
|                          | 150              | 12  | 250                      | HFT50 - 150 - 250                    | HFC50 150 - 250                           |
|                          | 200              | 12  | 250                      | HFT50 - 200 - 250                    | HFC50 200 - 250                           |
|                          | 250              | 12  | 250                      | HFT50 - 250 - 250                    | HFC50 250 - 250                           |
|                          | 300              | 12  | 250                      | HFT50 - 300 - 250                    | HFC50 300 - 250                           |

Also available with other hole sizes, current rating, lengths etc. as per customer specifications.



HFT- crimped with lugs



HFC- crimped with connectors

### \* T. C. BRAID DIMENSIONS

| Size<br>mm <sup>2</sup> | Width<br>in mm | Thickness<br>in mm |
|-------------------------|----------------|--------------------|
| 4                       | 8              | 1                  |
| 10                      | 12             | 2                  |
| 16                      | 15             | 2                  |
| 25                      | 25             | 2                  |
| 30                      | 25             | 2.5                |
| 35                      | 25             | 3                  |
| 50                      | 30             | 3                  |

## INSULATED SCREW CONNECTORS

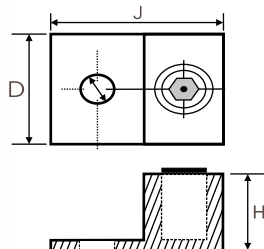
Body : PVC Connections : Brass Voltage : 240/415V Amperage : 32A

Insulated screw connectors accommodate a maximum of 2 x 6 mm<sup>2</sup> cables, and are made in one and two screw formats, the two screw being for the earth.

- They have a clear plastic housing so that the termination can be visually checked
- Nominal 32A rating, dependant on conductor loading
- Rated for normal 240/415V applications
- Connectors are supplied in handy, screw top jars

| Catalogue No. | Description Conductor      |
|---------------|----------------------------|
| HSCS1         | Single Screw Connector 32A |
| HSCS2         | Double Screw Connector 32A |



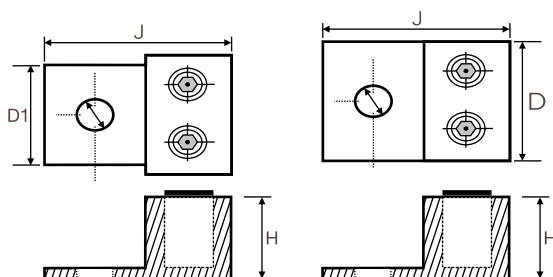


## ALUMINIUM SINGLE BARREL CONNECTOR, ONE HOLE MOUNT

MATERIAL : ALUMINUM • FINISH : ELECTRO TINNED

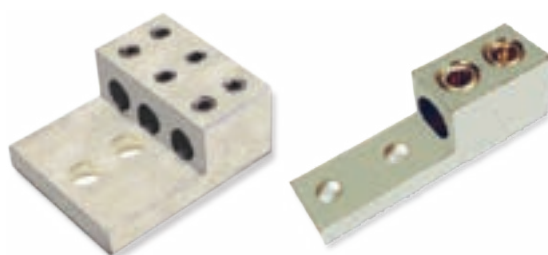
| Wire Size | Dimensions |      |      | Screw |          | Product Code |
|-----------|------------|------|------|-------|----------|--------------|
|           | J          | H    | D    | Size  | Type     |              |
| #6-14     | 1.16       | 0.56 | 0.5  | 1/4"  | Slotted  | HLA - 6      |
| #4-14     | 1.16       | 0.56 | 0.5  | 1/4"  | Slotted  | HLA - 4      |
| #2-14     | 1.16       | 0.56 | 0.5  | 1/4"  | Slotted  | HLA - 2      |
| #1/0-14   | 1.48       | 0.80 | 0.63 | 5/16" | Slotted  | HLA - 10     |
| #2/0-14   | 1.48       | 0.80 | 0.63 | 1/4"  | 3/16 HEX | HLA - 20     |
| 250-6     | 2          | 1.12 | 1    | 5/16" | 5/16 HEX | HLA - 250    |
| 300-6     | 2          | 1.25 | 1.13 | 5/16" | 5/16 HEX | HLA - 300    |
| 350-6     | 2.26       | 1.25 | 1.13 | 3/8"  | 5/16 Hex | HLA - 350    |
| 500-4     | 2.8        | 1.6  | 1.5  | 3/8"  | 1/2 HEX  | HLA - 500    |
| 600-2     | 3.13       | 1.56 | 1.5  | 3/8"  | 1/2 HEX  | HLA - 600    |
| 800-300   | 3.4        | 1.93 | 1.75 | 3/8"  | 3/8 HEX  | HLA - 800    |
| 1000-500  | 3.4        | 1.93 | 1.75 | 5/8"  | 3/8 HEX  | HLA - 1000   |

## ALUMINIUM DOUBLE BARREL CONNECTOR, ONE HOLE MOUNT



MATERIAL : ALUMINUM • FINISH : ELECTRO TINNED

| Wire Size | Dimensions |     |      |     | Screw   |         | Product Code |
|-----------|------------|-----|------|-----|---------|---------|--------------|
|           | H          | J   | D    | D1  | Size    | Type    |              |
| 1/0-14    | 0.8        | 1.5 | 0.63 | -   | 1/4"unf | Slotted | HL2A-10      |
| 2/0-14    | 0.8        | 1.5 | 0.63 | -   | 1/4"unf | Slotted | HL2A-20      |
| 250-6     | 1.1        | 2.0 | 1.65 | 1.5 | 3/8"unf | HEX     | HL2A-250     |
| 350-6     | 1.2        | 2.3 | 1.94 | 1.8 | 1/2"unf | HEX     | HL2A-350     |
| 500-6     | 1.6        | 3.1 | 2.37 | 2.0 | 1/2"unf | HEX     | HL2A-500     |
| 600-2     | 1.6        | 3.1 | 2.37 | 2.0 | 1/2"unf | HEX     | HL2A-600     |
| 800-300   | 1.9        | 3.4 | 3.5  | -   | 1/2"unf | HEX     | HL2A-800     |
| 1000-500  | 1.9        | 3.4 | 3.5  | -   | 1/2"unf | HEX     | HL2A-1000    |

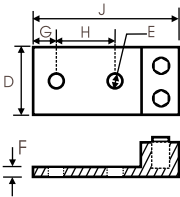


Other types and sizes of Aluminium Mechanical lugs like 2 Hole Palm - 2 Hole Screw, 3 Hole Palm - 2 Hole Screw, 3 Hole Palm - 3 Hole Screw etc. can be made on demand and/or customers specifications.

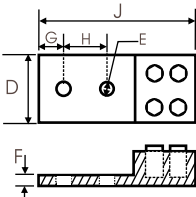
ALUMINIUM DOUBLE BARREL CONNECTOR, TWO HOLE MOUNT

MATERIAL : ALUMINIUM • FINISH : ELECTRO TINNED

| Conductor Range |           | Stud Hole | Dimensions in mm |                 |                 |                 |                 |      | Product Code |
|-----------------|-----------|-----------|------------------|-----------------|-----------------|-----------------|-----------------|------|--------------|
| Max.            | Min.      |           | J                | D               | F               | G               | H               | TYPE |              |
| 350 KCMIL       | 6 STR     | 1/2       | 104.65<br>(4.12) | 48.51<br>(1.91) | 7.87<br>(0.31)  | 15.75<br>(0.62) | 44.45<br>(1.75) | I    | HL2LA 350    |
| 600 KCMIL       | 4 STR     | 1/2       | 141.73<br>(5.58) | 60.96<br>(2.40) | 11.17<br>(0.44) | 15.75<br>(0.62) | 44.45<br>(1.75) | II   | HL2LA 600    |
| 800 KCMIL       | 350 KCMIL | 1/2       | 147.82<br>(5.82) | 81.03<br>(3.19) | 12.70<br>(0.50) | 15.75<br>(0.62) | 44.45<br>(1.75) | II   | HL2LA 800    |



Type I



Type II

COPPER ONE HOLE OFFSET TONGUE  
TERMINAL ENDS / CONNECTORS



Steel Screws : Zinc Plated

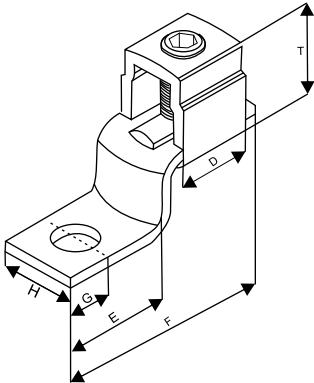
| Copper Wire Range (AWG) | Screw Size | Screw Type | Dimensions in mm |       |       |       |       |       | Product Code |
|-------------------------|------------|------------|------------------|-------|-------|-------|-------|-------|--------------|
|                         |            |            | F                | E     | D     | G     | H     | T     |              |
| #14 - #10               | 48 A       | SCREW-1    | 26               | 12    | 7     | 5.3   | 7.95  | 9.5   | HUL-25       |
| #14 - #6                | 1/4" UNF   | SCREW-2    | 31.5             | 15    | 11    | 5.6   | 10    | 12.3  | HUL-35       |
| #8 - #2                 | 5/16" UNF  | SCREW-2    | 39.5             | 20.5  | 12.7  | 6.35  | 12    | 16.3  | HUL-70       |
| #6 - #1/0               | 3/8" UNF   | SCREW-2    | 50.18            | 26.16 | 15.35 | 10.63 | 15.93 | 23.05 | HUL-125      |
| #4 - #3/0               | 3/8" UNF   | SCREW-3    | 55.67            | 29.85 | 18.17 | 10.87 | 19.17 | 26.36 | HUL-175      |
| #2 - #4/0               | 7/16" UNF  | SCREW-3    | 64.86            | 33.57 | 23.94 | 12.78 | 25.25 | 29.68 | HUL-225      |
| #1/0 - 350              | 5/8" UNF   | SCREW-3    | 71.68            | 33.55 | 30.85 | 12.97 | 25.25 | 35.65 | HUL-300      |
| #1/0 - 500              | 5/8" UNF   | SCREW-3    | 103.78           | 56.28 | 36.15 | 22.95 | 38.05 | 40.75 | HUL-400      |
| 600 - 1000              | 3/4" UNF   | SCREW-3    | 122.75           | 60.87 | 47.15 | 28.37 | 49.86 | 59.05 | HUL-650      |

# UL under process

\* UL Listed Products

- (A) - UL Listed wire combinations: (2) #10, (2) # 12, (2) # 14, (1) # 12 and (1) # 14, (1) # 10 and (1) # 12  
(B) - UL Listed wire combinations: (1) # 8 and (1) # 4, (1) # 8 and (1) # 6 (2) # 4, (3) # 8, (3) # 6, (2) 8 and (1) # 4, (2) # 8 and (1) # 6, (1) # 6 and (1) # 4, (2) # 6

Tolerance : as per UL FUS.

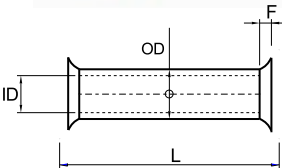


BUTT CONNECTOR



MATERIAL : E-COPPER • FINISH : COPPER

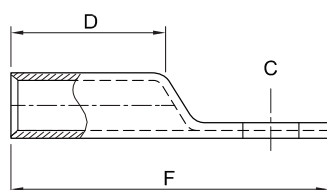
| Wire Size | Dimensions in mm |       |       |      | Product Code |
|-----------|------------------|-------|-------|------|--------------|
|           | ID               | OD    | L     | F    |              |
| 8         | 4.72             | 6.35  | 27.94 | 2.54 | HBC - T8     |
| 6         | 5.89             | 7.92  | 29.21 | 2.54 | HBC - T6     |
| 4         | 7.14             | 9.04  | 30.99 | 2.54 | HBC - T3     |
| 2         | 8.43             | 10.67 | 34.04 | 2.54 | HBC - T2     |
| 1         | 8.94             | 11.18 | 34.04 | 2.54 | HBC - T1     |
| 1/0       | 10.19            | 12.65 | 39.62 | 2.54 | HBC - T11    |
| 2/0       | 11.58            | 14.22 | 45.97 | 2.54 | HBC - T12    |
| 3/0       | 12.93            | 15.62 | 48.26 | 2.54 | HBC - T13    |
| 4/0       | 14.94            | 17.63 | 62.48 | 2.54 | HBC - T14    |



Tolerance : as per UL FUS.



## COPPER COMPRESSION LUGS - SHORT BARREL



| Wire Size | Colour Code | Bolt Size | Dimensions in Inch |         | Product Code   |
|-----------|-------------|-----------|--------------------|---------|----------------|
|           |             |           | D                  | F       |                |
| 8         | RED         | #10       | 0.512              | 1.220   | HCRA-A-8       |
| 6         | BLUE        | #10       | 0.812              | 1.500   | HCRA-A-6       |
| 6         | BLUE        | 1/4"      | 0.812              | 1.500   | HCRA-A-6       |
| 4         | GRAY        | #10       | 0.812              | 1.500   | HCRA-A-4       |
| 4         | GRAY        | 5/16"     | 0.812              | 1.500   | HCRA-A-4-516   |
| 4         | GRAY        | 1/4"      | 0.812              | 1.500   | HCRA-A-4       |
| 3         | WHITE       | 1/4"      | 0.812              | 1.500   | HCRA-A-3       |
| 2         | BROWN       | 1/4"      | 0.875              | 1.812   | HCRA-A-2       |
| 2         | BROWN       | 5/16"     | 0.875              | 1.844   | HCRA-A-2       |
| 2         | BROWN       | 3/8"      | 0.875              | 1.844   | HCRA-A-2       |
| 1         | GREEN       | 5/16"     | 0.875              | 1.875   | HCRA-A-1       |
| 1         | GREEN       | 1/4"      | 0.875              | 1.875   | HCRA-A-1-14    |
| 1         | GREEN       | 3/8"      | 0.875              | 1.875   | HCRA-A-1-38    |
| 1/0       | PINK        | 5/16"     | 0.875              | 1.875   | HCRA-A-0       |
| 1/0       | PINK        | 1/4"      | 0.875              | 1.875   | HCRA-A-0-14    |
| 1/0       | PINK        | 3/8"      | 0.875              | 1.875   | HCRA-A-0       |
| 2/0       | BLACK       | 3/8"      | 0.937              | 2.093   | HCRA-A-2/0     |
| 2/0       | BLACK       | 1/4"      | 0.937              | 2.093   | HCRA-A-2/0-14  |
| 2/0       | BLACK       | 5/16"     | 0.937              | 2.093   | HCRA-A-2/0     |
| 3/0       | ORANGE      | 3/8"      | 1.000              | 2.313   | HCRA-A-3/0     |
| 3/0       | ORANGE      | 1/4"      | 1.000              | 2.313   | HCRA-A-3/0-14  |
| 3/0       | ORANGE      | 1/2"      | 1.000              | 2.313   | HCRA-A-3/0     |
| 3/0       | ORANGE      | 5/16"     | 1.000              | 2.313   | HCRA-A-3/0     |
| 4/0       | PURPLE      | 3/8"      | 1.000              | 2.344   | HCRA-A-4/0     |
| 4/0       | PURPLE      | 1/4"      | 1.000              | 2.344   | HCRA-A-4/0-14  |
| 4/0       | PURPLE      | 1/2"      | 1.000              | 2.344   | HCRA-A-4/0     |
| 4/0       | PURPLE      | 5/16"     | 1.000              | 2.313   | HCRA-A-4/0     |
| 250MCM    | YELLOW      | 1/2"      | 1.063              | 2.625   | HCRA-A-250     |
| 250MCM    | YELLOW      | 3/8"      | 1.063              | 2.625   | HCRA-A-250-38  |
| 300MCM    | WHITE       | 1/2"      | 1.063              | 2.625   | HCRA-A-300     |
| 300MCM    | WHITE       | 3/8"      | 1.063              | 2.625   | HCRA-A-300-38  |
| 300MCM    | WHITE       | 5/16"     | 1.063              | 2.625   | HCRA-A-300-516 |
| 300MCM    | WHITE       | 5/8"      | 1.063              | 2.625   | HCRA-A-300-58  |
| 350MCM    | RED         | 1/2"      | 1.125              | 2.913   | HCRA-A-350     |
| 400MCM    | BLUE        | 5/8"      | 1.188              | 3.313   | HCRA-A-400     |
| 400MCM    | BLUE        | 1/2"      | 1.188              | 3.313   | HCRA-A-400-12  |
| 500MCM    | BROWN       | 5/8"      | 1.375              | 3.500   | HCRA-A-500     |
| 500MCM    | BROWN       | 1/2"      | 1.375              | 3.500   | HCRA-A-500-12  |
| 600MCM    | GREEN       | 5/8"      | 1.654              | 3.996   | HCRA-A-600     |
| 600MCM    | GREEN       | 1/2"      | 1.654              | 3.996   | HCRA-A-600-12  |
| *700MCM   | PINK        | 5/8       | 1-3/8              | 3-31/32 | *HCRA-700      |
| *750MCM   | BLACK       | 5/8       | 1-5/8              | 4-11/32 | *HCRA-750      |
| *1000MCM  | WHITE       | 5/8       | 1-7/8              | 4-7/8   | *HCRA-1000     |

\*Wire Size 700MCM, 750MCM & 1000MCM UL under process.

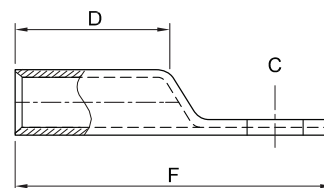
Tolerance : as per UL FUS.

## COPPER COMPRESSION LUGS - LONG BARREL



| Wire Size | Colour | Bolt Size | Dimensions in Inches |         | Product Code  |
|-----------|--------|-----------|----------------------|---------|---------------|
|           |        |           | D                    | F       |               |
| 8         | RED    | -         | 0.787                | 1.520   | HCRB-A-8L     |
| 6         | BLUE   | 1/4"      | 0.925                | 1.813   | HCRB-A-6L     |
| 4         | GRAY   | 1/4"      | 0.984                | 1.813   | HCRB-A-4L     |
| 4         | GRAY   | 5/16"     | 0.984                | 1.813   | HCRB-A-4L-516 |
| 3         | WHITE  | 1/4"      | 1.063                | 2.008   | HCRA-A-3L     |
| 2         | BROWN  | 5/16"     | 1.102                | 2.047   | HCRB-A-2L     |
| 2         | BROWN  | 1/4"      | 1.339                | 2.717   | HCRB-A-2L-14  |
| 2         | BROWN  | 3/8"      | 1.339                | 2.717   | HCRB-A-2L-38  |
| 1         | GREEN  | 5/16"     | 1.142                | 2.087   | HCRA-A-1L     |
| 1/0       | PINK   | 5/16"     | 1.339                | 2.717   | HCRA-A-1/0L   |
| 2/0       | BLACK  | 3/8"      | 1.260                | 2.656   | HCRA-A-2/0L   |
| 3/0       | ORANGE | 1/2"      | 1.299                | 2.906   | HCRB-A-3/0L   |
| 4/0       | PURPLE | 1/2"      | 1.535                | 2.969   | HCRB-A-4/0L   |
| 250 MCM   | YELLOW | 1/2"      | 1.575                | 3.188   | HCRA-A-250L   |
| 300 MCM   | WHITE  | 1/2"      | 1.811                | 3.563   | HCRA-A-300L   |
| 350 MCM   | RED    | 1/2"      | 2.008                | 3.563   | HCRA-A-350L   |
| 400 MCM   | BLUE   | 5/8"      | 1.850                | 3.740   | HCRA-A-400L   |
| 500 MCM   | BROWN  | 5/8"      | 2.244                | 4.375   | HCRA-A-500L   |
| 600 MCM   | GREEN  | 5/8"      | 2.362                | 4.646   | HCRA-A-600L   |
| *750 MCM  | BLACK  | 0.625     | 2-7/8                | 5-15/32 | *HCRA-750L    |
| *1000 MCM | WHITE  | 0.625     | 3                    | 6.0     | *HCRA-1000L   |

\*Wire Size 750MCM & 1000MCM UL under process  
Tolerance : as per UL FUS.

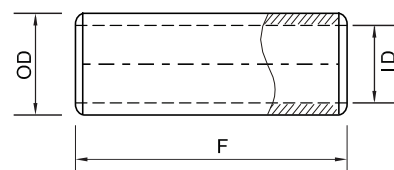


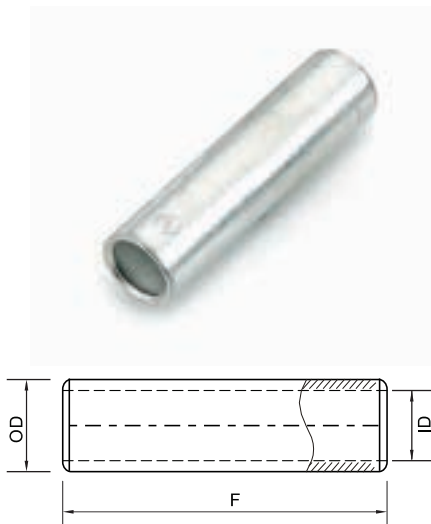
## COPPER COMPRESSION SLEEVES - SHORT BARREL



| Wire Size | Colour | Dimensions in Inches |       |       | Product Code |
|-----------|--------|----------------------|-------|-------|--------------|
|           |        | F                    | OD    | ID    |              |
| 8         | RED    | 1.125                | 0.281 | 0.172 | HCT-8        |
| 6         | BLUE   | 1.75                 | 0.297 | 0.203 | HCT-6        |
| 4         | GRAY   | 1.875                | 0.344 | 0.25  | HCT-4        |
| 3         | WHITE  | 1.75                 | 0.375 | 0.281 | HCT-3        |
| 2         | BROWN  | 1.875                | 0.422 | 0.313 | HCT-2        |
| 1         | GREEN  | 1.875                | 0.469 | 0.359 | HCT-1        |
| 1/0       | PINK   | 1.875                | 0.516 | 0.391 | HCT-1/0      |
| 2/0       | BLACK  | 2                    | 0.563 | 0.428 | HCT-2/0      |
| 3/0       | ORANGE | 2.125                | 0.609 | 0.484 | HCT-3/0      |
| 4/0       | PURPLE | 2.125                | 0.688 | 0.547 | HCT-4/0      |
| 300MCM    | WHITE  | 2.25                 | 0.813 | 0.656 | HCT-300      |
| 350MCM    | RED    | 2.375                | 0.875 | 0.688 | HCT-350      |
| 400MCM    | BLUE   | 2.5                  | 0.938 | 0.75  | HCT-400      |
| 500MCM    | BROWN  | 2.875                | 1.063 | 0.828 | HCT-500      |
| 600MCM    | GREEN  | 2.875                | 1.188 | 0.922 | HCT-600      |

Tolerance : as per UL FUS.





## COPPER COMPRESSION SLEEVES - LONG BARREL



| Wire Size | Colour | Dimensions in Inches |       |       | Product Code |
|-----------|--------|----------------------|-------|-------|--------------|
|           |        | F                    | OD    | ID    |              |
| 8         | RED    | 1.75                 | 0.281 | 0.172 | HCTL-8       |
| 6         | BLUE   | 2.38                 | 0.297 | 0.203 | HCTL-6       |
| 4         | GRAY   | 2.38                 | 0.344 | 0.250 | HCTL-4       |
| 3         | WHITE  | 2.38                 | 0.375 | 0.281 | HCTL-3       |
| 2         | BROWN  | 2.63                 | 0.422 | 0.312 | HCTL-2       |
| 1         | GREEN  | 2.88                 | 0.469 | 0.359 | HCTL-1       |
| 1/0       | PINK   | 2.88                 | 0.516 | 0.391 | HCTL-1/0     |
| 2/0       | BLACK  | 3.13                 | 0.562 | 0.438 | HCTL-2/0     |
| 3/0       | ORANGE | 3.13                 | 0.609 | 0.484 | HCTL-3/0     |
| 4/0       | PURPLE | 3.38                 | 0.687 | 0.547 | HCTL-4/0     |
| 300 MCM   | WHITE  | 4.13                 | 0.813 | 0.656 | HCTL-300     |
| 400 MCM   | BLUE   | 4.38                 | 0.937 | 0.750 | HCTL-400     |
| 500 MCM   | BROWN  | 4.63                 | 1.063 | 0.828 | HCTL-500     |
| 600 MCM   | GREEN  | 4.63                 | 1.188 | 0.922 | HCTL-600     |

Tolerance : as per UL FUS.



## COPPER COMPRESSION LUGS - LONG BARREL, 2 HOLES



| Wire Size | Colour Code | Bolt Size | Dimensions in Inches |       | Product Code      |
|-----------|-------------|-----------|----------------------|-------|-------------------|
|           |             |           | D                    | F     |                   |
| 2         | BROWN       | 5/16" (2) | 1.181                | 3.000 | HCRB-A-2L2        |
| 2         | BROWN       | 1/2" (2)  | 1.330                | 4.810 | HCRA-A-2L2        |
| 2         | BROWN       | #10 (2)   | 1.181                | 3.310 | HCRA-A-2L2-10-34  |
| 2         | BROWN       | 1/4" (2)  | 1.181                | 3.310 | HCRA-A-2L2-14-58  |
| 2         | BROWN       | 1/4" (2)  | 1.181                | 3.310 | HCRA-A-2L2-14-34  |
| 2         | BROWN       | 1/4" (2)  | 1.181                | 3.310 | HCRA-A-2L2-14-1   |
| 2         | BROWN       | 5/16" (2) | 1.181                | 3.310 | HCRA-A-2L2-516-58 |
| 2         | BROWN       | 5/16" (2) | 1.181                | 3.310 | HCRB-A-2L2-516-34 |
| 2         | BROWN       | 5/16" (2) | 1.181                | 3.310 | HCRA-A-2L2-516-1  |
| 2         | BROWN       | 3/8" (2)  | 1.181                | 3.310 | HCRA-A-2L2-38-58  |
| 2         | BROWN       | 3/8" (2)  | 1.181                | 3.310 | HCRA-A-2L2-38-34  |
| 2         | BROWN       | 3/8" (2)  | 1.181                | 3.310 | HCRA-A-2L2-28-78  |
| 2         | BROWN       | 3/8" (2)  | 1.181                | 3.310 | HCRA-A-2L2-38-1   |
| 2         | BROWN       | 3/8" (2)  | 1.339                | 4.500 | HCRB-A-2L2-12-134 |
| 1         | GREEN       | 1/2" (2)  | 1.299                | 3.440 | HCRA-A-1L2        |
| 1         | GREEN       | 5/16" (2) | 1.299                | 3.440 | HCRA-A-1L2-14-58  |
| 1         | GREEN       | 1/2" (2)  | 1.358                | 4.750 | HCRA-A-1L2        |
| 1/0       | PINK        | 5/16" (2) | 1.181                | 3.440 | HCRA-A-1/0L2      |
| 1/0       | PINK        | 1/2" (2)  | 1.496                | 4.910 | HCRA-A-1/0L2      |
| 8         | RED         | #10 (2)   | 0.866                | 2.190 | HCRB-A-8L2        |
| 8         | RED         | 1/4" (2)  | 0.866                | 2.190 | HCRB-A-8L2        |

Tolerance : as per UL FUS.



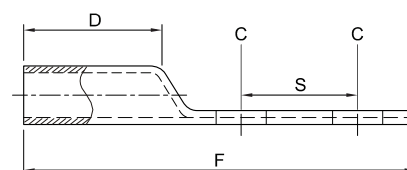
# COPPER COMPRESSION LUGS - LONG BARREL, 2 HOLES



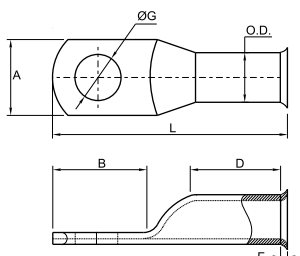
| Wire Size | Colour Code | Bolt Size | Dimensions in Inch |       | Product Code        |
|-----------|-------------|-----------|--------------------|-------|---------------------|
|           |             |           | D                  | F     |                     |
| 6         | BLUE        | 1/4" (2)  | 0.984              | 2.382 | HCRB-A-6L2          |
| 6         | BLUE        | #10 (2)   | 1.181              | 3.188 | HCRB-A-6L2-10-34    |
| 6         | BLUE        | 1/4" (2)  | 1.181              | 3.188 | HCRB-A-6L2-14-58    |
| 6         | BLUE        | 1/4" (2)  | 1.181              | 3.188 | HCRB-A-6L2-14-34    |
| 6         | BLUE        | 1/4" (2)  | 1.181              | 3.188 | HCRB-A-6L2-14-1     |
| 6         | BLUE        | 5/16" (2) | 1.181              | 3.188 | HCRB-A-6L2-516-1    |
| 6         | BLUE        | 3/8" (2)  | 1.181              | 3.188 | HCRB-A-6L2-38-34    |
| 6         | BLUE        | 3/8" (2)  | 1.181              | 3.188 | HCRB-A-6L2-38-78    |
| 6         | BLUE        | 3/8" (2)  | 1.181              | 3.188 | HCRB-A-6L2-38-1     |
| 4         | GRAY        | 1/4" (2)  | 1.299              | 3.035 | HCRB-A-4L2          |
| 4         | GRAY        | 1/2" (2)  | 1.181              | 4.875 | HCRB-A-4L2          |
| 4         | GRAY        | #10 (2)   | 1.181              | 3.188 | HCRA-A-4L2-10-34    |
| 4         | GRAY        | 1/4" (2)  | 1.181              | 3.188 | HCRB-A-4L2-14-58    |
| 4         | GRAY        | 1/4" (2)  | 1.181              | 3.188 | HCRA-A-4L2-14-34    |
| 4         | GRAY        | 1/4" (2)  | 1.181              | 3.188 | HCRA-A-4L2-14-1     |
| 4         | GRAY        | 5/16" (2) | 1.181              | 3.188 | HCRA-A-4L2-516-58   |
| 4         | GRAY        | 5/16" (2) | 1.181              | 3.188 | HCRA-A-4L2-516-34   |
| 4         | GRAY        | 5/16" (2) | 1.181              | 3.188 | HCRA-A-4L2-516-1    |
| 4         | GRAY        | 3/8" (2)  | 1.181              | 3.188 | HCRB-A-4L2-38-34    |
| 4         | GRAY        | 3/8" (2)  | 1.181              | 3.188 | HCRB-A-4L2-38-1     |
| 4         | GRAY        | 1/2" (2)  | 1.181              | 4.375 | HCRB-A-4L2-12-134   |
| 3         | WHITE       | 1/4" (2)  | 1.299              | 3.035 | HCRA-A-3L2          |
| 3         | WHITE       | 3/8" (2)  | 1.299              | 3.035 | HCRA-A-3L2          |
| 2/0       | BLACK       | 1/2" (2)  | 1.142              | 4.780 | HCRA-A-2/0L2        |
| 3/0       | ORANGE      | 1/2" (2)  | 1.475              | 4.970 | HCRB-A-3/0L2        |
| 4/0       | PURPLE      | 1/2" (2)  | 1.299              | 4.970 | HCRB-A-4/0L2        |
| 250MCM    | YELLOW      | 1/2" (2)  | 1.535              | 5.060 | HCRA-A-250L2        |
| 250MCM    | YELLOW      | 3/8" (2)  | 1.535              | 5.060 | HCRA-A-250L2-38-1   |
| 250MCM    | YELLOW      | 3/8" (2)  | 1.535              | 5.060 | HCRA-A-250L2-38-134 |
| 300MCM    | WHITE       | 1/2" (2)  | 1.791              | 5.440 | HCRA-A-300L2        |
| 350MCM    | RED         | 1/2" (2)  | 1.870              | 5.440 | HCRA-A-350L2        |
| 400MCM    | BLUE        | 1/2" (2)  | 2.008              | 5.750 | HCRA-A-400L2        |
| 500MCM    | BROWN       | 1/2" (2)  | 2.126              | 5.750 | HCRA-A-500L2        |
| 600MCM    | GREEN       | 1/2" (2)  | 2.244              | 6.060 | HCRA-A-600L2        |
| *700MCM   | PINK        | 1/2" (2)  | 2-1/4              | 6.06  | HCRA-700L2          |
| *750MCM   | BLACK       | 1/2" (2)  | 2-7/8              | 6.53  | HCRA-750L2          |
| *1000MCM  | WHITE       | 1/2" (2)  | 3                  | 6.53  | HCRA-1000L2         |

\*Wire Size 700MCM, 750MCM & 1000MCM UL under process

Tolerance : as per UL FUS.







## COPPER STANDARD WALL STARTER TERMINAL ENDS

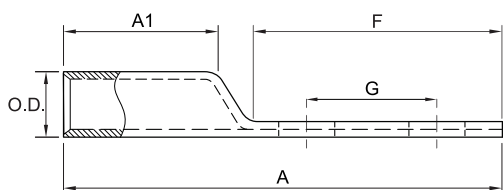


MATERIAL : E - COPPER • FINISH : COPPER

| Wire Size | Bolt Size | Dimensions in mm |       |       |       |       |       | Product Code |
|-----------|-----------|------------------|-------|-------|-------|-------|-------|--------------|
|           |           | O.D.             | A     | B     | D     | G     | L     |              |
| 8         | 1/4"      | 6.35             | 11.58 | 17.15 | 13.97 | 6.40  | 36.66 | HABL-A-86    |
| 8         | 5/16"     | 6.35             | 11.58 | 17.15 | 13.97 | 8.41  | 36.66 | HABL-A-88    |
| 8         | 3/8"      | 6.35             | 14.48 | 17.15 | 13.97 | 10.49 | 36.66 | HABL-A-810   |
| 8         | 1/2"      | 6.35             | 16.26 | 20.62 | 13.97 | 13.00 | 42.55 | HABL-A-812   |
| 6         | 1/4"      | 7.92             | 13.72 | 17.78 | 13.97 | 6.40  | 37.29 | HABL-A-66    |
| 6         | 5/16"     | 7.92             | 13.72 | 17.78 | 13.97 | 8.41  | 37.29 | HABL-A-68    |
| 6         | 3/8"      | 7.92             | 13.72 | 17.78 | 13.97 | 10.49 | 37.29 | HABL-A-610   |
| 6         | 1/2"      | 7.92             | 16.26 | 20.82 | 13.97 | 13.00 | 42.55 | HABL-A-612   |
| 4         | 1/4"      | 9.04             | 13.72 | 20.32 | 14.73 | 6.40  | 40.64 | HABL-A-46    |
| 4         | 5/16"     | 9.04             | 13.72 | 20.32 | 14.73 | 8.41  | 40.64 | HABL-A-48    |
| 4         | 3/8"      | 9.04             | 14.48 | 20.32 | 14.73 | 10.49 | 40.64 | HABL-A-410   |
| 4         | 1/2"      | 9.04             | 14.48 | 20.32 | 14.73 | 13.00 | 40.64 | HABL-A-412   |
| 2         | 1/4"      | 10.67            | 16.51 | 19.61 | 17.02 | 6.40  | 43.94 | HABL-A-26    |
| 2         | 5/16"     | 10.67            | 16.51 | 19.61 | 17.02 | 8.41  | 43.94 | HABL-A-28    |
| 2         | 3/8"      | 10.67            | 16.51 | 19.61 | 17.02 | 10.49 | 43.94 | HABL-A-210   |
| 2         | 1/2"      | 10.67            | 16.51 | 19.61 | 17.02 | 13.00 | 43.94 | HABL-A-212   |
| 1/0       | 1/4"      | 12.65            | 18.59 | 21.34 | 19.30 | 6.40  | 48.56 | HABL-A-106   |
| 1/0       | 5/16"     | 12.65            | 18.59 | 21.34 | 19.30 | 8.41  | 48.56 | HABL-A-108   |
| 1/0       | 3/8"      | 12.65            | 18.59 | 21.34 | 19.30 | 10.49 | 48.56 | HABL-A-1010  |
| 1/0       | 1/2"      | 12.65            | 18.59 | 21.34 | 19.30 | 13.00 | 48.56 | HABL-A-1012  |
| 2/0       | 1/4"      | 14.22            | 20.83 | 24.38 | 21.59 | 6.40  | 55.88 | HABL-A-206   |
| 2/0       | 5/16"     | 14.22            | 20.83 | 24.38 | 21.59 | 8.41  | 55.88 | HABL-A-208   |
| 2/0       | 3/8"      | 14.22            | 20.83 | 24.38 | 21.59 | 10.49 | 55.88 | HABL-A-2010  |
| 2/0       | 1/2"      | 14.22            | 20.83 | 24.38 | 21.59 | 13.00 | 55.88 | HABL-A-2012  |
| 3/0       | 3/8"      | 15.62            | 22.95 | 25.04 | 21.45 | 6.40  | 57.15 | HABL-A-3010  |
| 3/0       | 1/2"      | 15.62            | 22.95 | 25.04 | 21.45 | 13.00 | 57.15 | HABL-A-3012  |
| 4/0       | 3/8"      | 17.63            | 26.31 | 28.40 | 23.11 | 10.49 | 65.29 | HABL-A-4010  |
| 4/0       | 1/2"      | 17.63            | 26.31 | 28.40 | 23.11 | 13.00 | 65.29 | HABL-A-4012  |

Tolerance : as per UL FUS.

## COPPER COMPRESSION LUGS - SHORT BARREL, 2 HOLES



| Wire Size | Bolt Size | Dimensions in Inch |       |       |       |       | Colour Code | Product Code   |
|-----------|-----------|--------------------|-------|-------|-------|-------|-------------|----------------|
|           |           | O.D.               | A1    | A     | F     | G     |             |                |
| 8         | #10       | 0.281              | 0.440 | 1.820 | 1.260 | 0.630 | Red         | HS-A-8 L2      |
| 6         | 1/4"      | 0.297              | 0.710 | 2.090 | 1.260 | 0.630 | Blue        | HS-A-6 L2      |
| 4         | 1/4"      | 0.344              | 0.710 | 2.090 | 1.260 | 0.630 | Gray        | HS-A-4 L2      |
| 2         | 5/16"     | 0.422              | 0.830 | 2.620 | 1.610 | 0.750 | Brown       | HS-A-2 L2      |
| 1         | 1/4"      | 0.469              | 0.830 | 2.280 | 1.260 | 0.630 | Green       | HS-A-1 L2      |
| 1/0       | 5/16"     | 0.517              | 0.830 | 2.874 | 1.810 | 0.984 | Pink        | HS-A-1/0 L2    |
| 1/0       | 3/8"      | 0.517              | 0.830 | 2.830 | 1.810 | 1.000 | Pink        | HS-A-1/0-38 L2 |
| 2/0       | 3/8"      | 0.563              | 0.940 | 2.990 | 1.850 | 1.000 | Black       | HS-A-2/0 L2    |
| 2/0       | 1/2"      | 0.563              | 0.940 | 4.170 | 2.990 | 1.750 | Black       | HS-A-2/0-12 L2 |
| 3/0       | 1/2"      | 0.609              | 0.984 | 4.290 | 2.990 | 1.750 | Orange      | HS-A-3/0 L2    |
| 4/0       | 1/2"      | 0.688              | 1.142 | 4.290 | 3.031 | 1.750 | Purple      | HS-A-4/0 L2    |
| 4/0       | 3/8"      | 0.688              | 1.142 | 4.449 | 3.031 | 1.752 | Purple      | HS-A-4/0-38 L2 |
| 250 MCM   | 1/2"      | 0.750              | 1.060 | 4.410 | 2.990 | 1.750 | Yellow      | HS-A-250 L2    |
| 300 MCM   | 1/2"      | 0.813              | 1.060 | 4.410 | 2.990 | 1.750 | White       | HS-A-300 L2    |
| 350 MCM   | 1/2"      | 0.875              | 1.100 | 4.530 | 2.990 | 1.750 | Red         | HS-A-350 L2    |
| 400 MCM   | 1/2"      | 0.937              | 1.180 | 4.690 | 2.990 | 1.750 | Blue        | HS-A-400 L2    |
| 500 MCM   | 1/2"      | 1.063              | 1.380 | 4.880 | 2.990 | 1.750 | Brown       | HS-A-500 L2    |
| 600 MCM   | 3/8"      | 1.188              | 1.500 | 4.960 | 2.990 | 1.750 | Green       | HS-A-600 L2    |
| 600 MCM   | 1/2"      | 1.188              | 1.500 | 5.040 | 2.990 | 1.750 | Green       | HS-A-600-12 L2 |
| *750 MCM  | 1/2"      |                    | 1.850 | 5.510 |       | 1.750 | Black       | HS-A-750 L2    |

\*Wire Size 750MCM UL under process.

Tolerance : as per UL FUS.

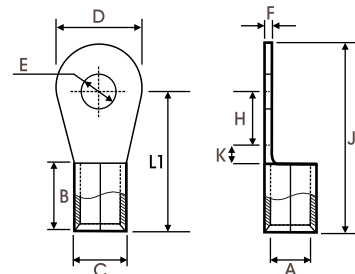
# RING TYPE TINNED COPPER CABLE TERMINAL ENDS (NON INSULATED)



MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm |     |     |     |   |     |      |      |      | Product<br>Code |
|--------------------------|----------------|------------------|-----|-----|-----|---|-----|------|------|------|-----------------|
|                          |                | A                | C   | D   | F   | B | K   | H    | L1   | J    |                 |
| 1.5                      | 3.2            | 1.6              | 3.2 | 6.8 | 0.8 | 5 | 1.0 | 3.6  | 9.6  | 13   | HR 7153         |
|                          | 3.7            | 1.6              | 3.2 | 6.8 | 0.8 | 5 | 1.0 | 3.6  | 9.6  | 13   | HR 7048         |
|                          | 4.2            | 1.6              | 3.2 | 6.8 | 0.8 | 5 | 1.0 | 3.6  | 9.6  | 13   | HR 7049         |
|                          | 2.2            | 1.6              | 3.2 | 6   | 0.8 | 5 | 2.0 | 4.0  | 11   | 14   | HR 7103         |
|                          | 2.6            | 1.6              | 3.2 | 6   | 0.8 | 5 | 2.0 | 4.0  | 11   | 14   | HR 7000         |
|                          | 3.2            | 1.6              | 3.2 | 6   | 0.8 | 5 | 2.0 | 4.0  | 11   | 14   | HR 7001         |
|                          | 3.7            | 1.6              | 3.2 | 6   | 0.8 | 5 | 2.0 | 4.0  | 11   | 14   | HR 7002         |
|                          | 4.2            | 1.6              | 3.2 | 6   | 0.8 | 5 | 2.0 | 4.0  | 11   | 14   | HR 7003         |
|                          | 4.2            | 1.6              | 3.2 | 7   | 0.8 | 5 | 1.0 | 5.0  | 11   | 14.5 | HR 7154         |
|                          | 3.2            | 1.6              | 3.2 | 8   | 0.8 | 5 | 2.0 | 5.0  | 12   | 16   | HR 7104         |
|                          | 4.2            | 1.6              | 3.2 | 8   | 0.8 | 5 | 2.0 | 5.0  | 12   | 16   | HR 7004         |
|                          | 5.2            | 1.6              | 3.2 | 8   | 0.8 | 5 | 2.0 | 5.0  | 12   | 16   | HR 7005         |
|                          | 4.2            | 1.6              | 3.2 | 10  | 0.8 | 5 | 2.0 | 6.0  | 13   | 18   | HR 7105         |
|                          | 5.2            | 1.6              | 3.2 | 10  | 0.8 | 5 | 2.0 | 6.0  | 13   | 18   | HR 7006         |
| 2.5                      | 6.4            | 1.6              | 3.2 | 10  | 0.8 | 5 | 2.0 | 6.0  | 13   | 18   | HR 7007         |
|                          | 6.4            | 1.6              | 3.2 | 12  | 0.8 | 5 | 1.0 | 6.0  | 12   | 18   | HR 7106         |
|                          | 3.2            | 2.3              | 3.9 | 6.5 | 0.8 | 5 | 1.0 | 3.5  | 9.5  | 12.7 | HR 7107         |
|                          | 3.7            | 2.3              | 3.9 | 6.5 | 0.8 | 5 | 1.0 | 3.5  | 9.5  | 12.7 | HR 7008         |
|                          | 3.7            | 2.3              | 3.9 | 8   | 0.8 | 5 | 2.0 | 5.0  | 12   | 16   | HR 7108         |
|                          | 4.2            | 2.3              | 3.9 | 8   | 0.8 | 5 | 2.0 | 5.0  | 12   | 16   | HR 7009         |
|                          | 5.2            | 2.3              | 3.9 | 8   | 0.8 | 5 | 2.0 | 5.0  | 12   | 16   | HR 7010         |
|                          | 5.2            | 2.3              | 3.9 | 10  | 0.8 | 5 | 1.0 | 7.0  | 13   | 18   | HR 7109         |
|                          | 6.4            | 2.3              | 3.9 | 10  | 0.8 | 5 | 1.0 | 7.0  | 13   | 18   | HR 7011         |
|                          | 5.2            | 2.3              | 3.9 | 12  | 0.8 | 5 | 2.0 | 9.0  | 16   | 22   | HR 7110         |
|                          | 6.4            | 2.3              | 3.9 | 12  | 0.8 | 5 | 2.0 | 9.0  | 16   | 22   | HR 7012         |
|                          | 8.2            | 2.3              | 3.9 | 12  | 0.8 | 5 | 2.0 | 9.0  | 16   | 22   | HR 7013         |
|                          | 6.4            | 2.3              | 3.9 | 16  | 0.8 | 5 | 2.0 | 10.0 | 17   | 25   | HR 7111         |
|                          | 8.2            | 2.3              | 3.9 | 16  | 0.8 | 5 | 2.0 | 10.0 | 17   | 25   | HR 7014         |
| 4 - 6                    | 10.2           | 2.3              | 3.9 | 16  | 0.8 | 5 | 2.0 | 10.0 | 17   | 25   | HR 7015         |
|                          | 10.2           | 2.3              | 3.9 | 18  | 0.8 | 5 | 1.0 | 14.0 | 20   | 29   | HR 7151         |
|                          | 12.7           | 2.3              | 3.9 | 18  | 0.8 | 5 | 1.0 | 14.0 | 20   | 29   | HR 7047         |
|                          | 4.2            | 3.5              | 5.5 | 8   | 1.0 | 6 | 2.0 | 5.0  | 13   | 17   | HR 7155         |
|                          | 5.2            | 3.5              | 5.5 | 8   | 1.0 | 6 | 2.0 | 5.0  | 13   | 17   | HR 7050         |
|                          | 4.2            | 3.5              | 5.5 | 10  | 1.0 | 6 | 3.0 | 5.0  | 14   | 19   | HR 7112         |
|                          | 5.2            | 3.5              | 5.5 | 10  | 1.0 | 6 | 3.0 | 5.0  | 14   | 19   | HR 7016         |
|                          | 5.2            | 3.5              | 5.5 | 12  | 1.0 | 6 | 2.0 | 6.0  | 14   | 20   | HR 7113         |
|                          | 6.4            | 3.5              | 5.5 | 12  | 1.0 | 6 | 2.0 | 6.0  | 14   | 20   | HR 7017         |
|                          | 8.2            | 3.5              | 5.5 | 12  | 1.0 | 6 | 2.0 | 6.0  | 14   | 20   | HR 7018         |
|                          | 5.2            | 3.5              | 5.5 | 12  | 1.0 | 6 | 3.0 | 7.0  | 16   | 22   | HR 7114         |
|                          | 6.4            | 3.5              | 5.5 | 12  | 1.0 | 6 | 3.0 | 7.0  | 16   | 22   | HR 7019         |
|                          | 5.2            | 3.5              | 5.5 | 8   | 1.0 | 6 | 3.0 | 9.8  | 18.8 | 22.8 | HR 7157         |
|                          | 6.4            | 3.5              | 5.5 | 14  | 1.0 | 6 | 2.0 | 10.5 | 18.5 | 25.5 | HR 7115         |
| 10                       | 8.2            | 3.5              | 5.5 | 14  | 1.0 | 6 | 2.0 | 10.5 | 18.5 | 25.5 | HR 7020         |
|                          | 9.7            | 3.5              | 5.5 | 14  | 1.0 | 6 | 2.0 | 10.5 | 18.5 | 25.5 | HR 7021         |
|                          | 8.2            | 3.5              | 5.5 | 16  | 1.0 | 6 | 3.0 | 13.0 | 22   | 30.0 | HR 7116         |
|                          | 10.2           | 3.5              | 5.5 | 16  | 1.0 | 6 | 3.0 | 13.0 | 22   | 30.0 | HR 7022         |
|                          | 8.2            | 3.5              | 5.5 | 18  | 1.0 | 6 | 3.0 | 12.0 | 21   | 30.0 | HR 7117         |
|                          | 10.2           | 3.5              | 5.5 | 18  | 1.0 | 6 | 3.0 | 12.0 | 21   | 30.0 | HR 7023         |
|                          | 12.7           | 3.5              | 5.5 | 18  | 1.0 | 6 | 3.0 | 12.0 | 21   | 30.0 | HR 7024         |
|                          | 4.2            | 4.3              | 6.3 | 10  | 1.0 | 8 | 2.0 | 7.0  | 17   | 22   | HR 7118         |
|                          | 5.2            | 4.3              | 6.3 | 10  | 1.0 | 8 | 2.0 | 7.0  | 17   | 22   | HR 7025         |
|                          | 4.2            | 4.3              | 6.3 | 10  | 1.0 | 8 | 3.0 | 4.0  | 15   | 20   | HR 7119         |

Tolerance : as per UL FUS.



# RING TYPE TINNED COPPER CABLE TERMINAL ENDS (NON INSULATED)



MATERIAL : E - COPPER • FINISH : ELECTRO TINNED

| Cable<br>mm <sup>2</sup> | Stud<br>Hole E | Dimensions in mm |      |    |     |    |      |      |    |    | Product<br>Code |
|--------------------------|----------------|------------------|------|----|-----|----|------|------|----|----|-----------------|
|                          |                | A                | C    | D  | F   | B  | K    | H    | L1 | J  |                 |
| 10                       | 5.2            | 4.3              | 6.3  | 10 | 1.0 | 8  | 3.0  | 4.0  | 15 | 20 | HR 7026         |
|                          | 6.4            | 4.3              | 6.3  | 12 | 1.0 | 8  | 2.0  | 7.0  | 17 | 23 | HR 7120         |
|                          | 8.2            | 4.3              | 6.3  | 16 | 1.0 | 8  | 4.0  | 7.0  | 19 | 27 | HR 7121         |
|                          | 8.2            | 4.3              | 6.3  | 18 | 1.0 | 8  | 4.0  | 9.0  | 21 | 30 | HR 7122         |
|                          | 10.2           | 4.3              | 6.3  | 18 | 1.0 | 8  | 4.0  | 9.0  | 21 | 30 | HR 7027         |
|                          | 10.2           | 4.3              | 6.3  | 22 | 1.0 | 8  | 5.0  | 10.0 | 23 | 34 | HR 7123         |
|                          | 12.7           | 4.3              | 6.3  | 22 | 1.0 | 8  | 5.0  | 10.0 | 23 | 34 | HR 7028         |
| 16                       | 5.2            | 5.6              | 8    | 10 | 1.2 | 10 | 3.0  | 6.0  | 19 | 24 | HR 7124         |
|                          | 5.2            | 5.6              | 8    | 12 | 1.2 | 10 | 4.0  | 6.0  | 20 | 26 | HR 7125         |
|                          | 6.4            | 5.6              | 8    | 12 | 1.2 | 10 | 4.0  | 6.0  | 20 | 26 | HR 7029         |
|                          | 6.4            | 5.6              | 8    | 16 | 1.2 | 10 | 4.0  | 8.0  | 22 | 30 | HR 7126         |
|                          | 8.2            | 5.6              | 8    | 16 | 1.2 | 10 | 4.0  | 8.0  | 22 | 30 | HR 7030         |
|                          | 9.7            | 5.6              | 8    | 16 | 1.2 | 10 | 4.0  | 8.0  | 22 | 30 | HR 7031         |
|                          | 8.2            | 5.6              | 8    | 18 | 1.2 | 10 | 4.0  | 10.0 | 24 | 33 | HR 7127         |
|                          | 10.2           | 5.6              | 8    | 18 | 1.2 | 10 | 4.0  | 10.0 | 24 | 33 | HR 7032         |
|                          | 10.2           | 5.6              | 8    | 22 | 1.2 | 10 | 6.0  | 8.0  | 24 | 35 | HR 7128         |
|                          | 12.7           | 5.6              | 8    | 22 | 1.2 | 10 | 6.0  | 8.0  | 24 | 35 | HR 7033         |
|                          |                |                  |      |    |     |    |      |      |    |    |                 |
| 25                       | 6.4            | 7.5              | 11.1 | 12 | 1.8 | 11 | 4.0  | 10.0 | 25 | 31 | HR 7156         |
|                          | 8.2            | 7.5              | 11.1 | 12 | 1.8 | 11 | 4.0  | 10.0 | 25 | 31 | HR 7051         |
|                          | 6.4            | 7.5              | 11.1 | 16 | 1.8 | 11 | 5.0  | 6.0  | 22 | 30 | HR 7129         |
|                          | 8.2            | 7.5              | 11.1 | 16 | 1.8 | 11 | 5.0  | 6.0  | 22 | 30 | HR 7034         |
|                          | 10.2           | 7.5              | 11.1 | 16 | 1.8 | 11 | 5.0  | 6.0  | 22 | 30 | HR 7035         |
|                          | 6.4            | 7.5              | 11.1 | 16 | 1.8 | 11 | 4.0  | 10.0 | 25 | 33 | HR 7130         |
|                          | 8.2            | 7.5              | 11.1 | 16 | 1.8 | 11 | 4.0  | 10.0 | 25 | 33 | HR 7036         |
|                          | 10.2           | 7.5              | 11.1 | 18 | 1.8 | 11 | 5.0  | 9.0  | 25 | 34 | HR 7131         |
|                          | 10.2           | 7.5              | 11.1 | 22 | 1.8 | 11 | 6.0  | 14.0 | 31 | 42 | HR 7132         |
|                          | 12.7           | 7.5              | 11.1 | 22 | 1.8 | 11 | 6.0  | 14.0 | 31 | 42 | HR 7037         |
| 35                       | 6.4            | 9                | 12.6 | 16 | 1.8 | 12 | 5.0  | 6.0  | 23 | 31 | HR 7133         |
|                          | 8.2            | 9                | 12.6 | 16 | 1.8 | 12 | 5.0  | 6.0  | 23 | 31 | HR 7038         |
|                          | 8.2            | 9                | 12.6 | 18 | 1.8 | 12 | 5.0  | 10.0 | 27 | 36 | HR 7134         |
|                          | 10.2           | 9                | 12.6 | 18 | 1.8 | 12 | 5.0  | 10.0 | 27 | 36 | HR 7039         |
|                          | 10.2           | 9                | 12.6 | 22 | 1.8 | 12 | 4.0  | 15.0 | 31 | 42 | HR 7135         |
|                          | 12.7           | 9                | 12.6 | 22 | 1.8 | 12 | 4.0  | 15.0 | 31 | 42 | HR 7040         |
|                          |                |                  |      |    |     |    |      |      |    |    |                 |
| 50                       | 8.2            | 10.5             | 14.1 | 18 | 1.8 | 16 | 6.0  | 12.0 | 34 | 43 | HR 7136         |
|                          | 10.2           | 10.5             | 14.1 | 18 | 1.8 | 16 | 6.0  | 12.0 | 34 | 43 | HR 7041         |
|                          | 10.2           | 10.5             | 14.1 | 22 | 1.8 | 16 | 7.0  | 9.0  | 32 | 43 | HR 7137         |
|                          | 10.2           | 10.5             | 14.1 | 24 | 1.8 | 16 | 6.0  | 14.0 | 36 | 48 | HR 7138         |
|                          | 12.7           | 10.5             | 14.1 | 24 | 1.8 | 16 | 6.0  | 14.0 | 36 | 48 | HR 7042         |
|                          | 16.2           | 10.5             | 14.1 | 32 | 1.8 | 16 | 7.0  | 15.0 | 38 | 54 | HR 7139         |
| 70                       | 10.2           | 12               | 16   | 22 | 2   | 18 | 7.0  | 11.0 | 36 | 47 | HR 7140         |
|                          | 12.7           | 12               | 16   | 22 | 2   | 18 | 7.0  | 11.0 | 36 | 47 | HR 7043         |
|                          | 12.7           | 12               | 16   | 24 | 2   | 18 | 8.0  | 10.0 | 36 | 48 | HR 7141         |
|                          | 16.2           | 12               | 16   | 28 | 2   | 18 | 6.0  | 16.0 | 40 | 54 | HR 7142         |
| 95                       | 10.2           | 13.5             | 18.1 | 22 | 2.3 | 20 | 5.0  | 10.0 | 35 | 46 | HR 7143         |
|                          | 10.2           | 13.5             | 18.1 | 24 | 2.3 | 20 | 6.0  | 12.0 | 38 | 50 | HR 7144         |
|                          | 12.7           | 13.5             | 18.1 | 24 | 2.3 | 20 | 6.0  | 12.0 | 38 | 50 | HR 7044         |
|                          | 16.2           | 13.5             | 18.1 | 28 | 2.3 | 20 | 7.0  | 17.0 | 44 | 58 | HR 7145         |
| 120                      | 12.7           | 15               | 20.2 | 26 | 2.6 | 22 | 10.0 | 7.0  | 39 | 52 | HR 7146         |
|                          | 23.0           | 15               | 20.2 | 40 | 2.6 | 22 | 10.0 | 20.0 | 52 | 72 | HR 7148         |
| 150                      | 12.7           | 16.5             | 23.7 | 34 | 3.6 | 24 | 9.0  | 16.0 | 49 | 66 | HR 7149         |
|                          | 16.2           | 16.5             | 23.7 | 34 | 3.6 | 24 | 9.0  | 16.0 | 49 | 66 | HR 7045         |
|                          | 16.2           | 16.5             | 23.7 | 40 | 3.6 | 24 | 10.0 | 20.0 | 54 | 74 | HR 7150         |
|                          | 20.3           | 16.5             | 23.7 | 40 | 3.6 | 24 | 10.0 | 20.0 | 54 | 74 | HR 7046         |

Tolerance : as per UL FUS.

## HEXPRESS CRIMPING TOOLS

### HEXPRESS A - 6

Crimping Capacity :  
0.5mm<sup>2</sup> to 6mm<sup>2</sup>  
Weight : 340 gms.



### HEXPRESS B - 16

Crimping Capacity :  
0.5mm<sup>2</sup> to 16mm<sup>2</sup>  
Weight : 600 gms.



### HEXPRESS F1 - 185 (Round Profile Dies)

Dies : R - 1 to R - 13  
Crimping Capacity :  
10mm<sup>2</sup> to 185mm<sup>2</sup>  
Weight : 6.45 Kgs.



### HEXPRESS F1-185 (HEX Profile Dies)

Dies : R - 1 to R - 13  
Crimping Capacity :  
10mm<sup>2</sup> to 185mm<sup>2</sup>  
Weight : 6.45 Kgs.



### HEXPRESS G - 400

Dies : Hex Profile  
Crimping Capacity :  
25mm<sup>2</sup> to 400mm<sup>2</sup>  
Weight : 9.60 Kgs.



### HEXPRESS G1 - 400

{Gear Operated}  
Dies : R - 11 to R - 18  
Crimping Capacity :  
50mm<sup>2</sup> to 400mm<sup>2</sup>  
Weight : 9.50 Kgs.



### HEXPRESS HY - 400

(Hydraulic)  
Dies : R - 11 to R - 18  
Crimping Capacity :  
120mm<sup>2</sup> to 400mm<sup>2</sup>  
Weight : 16.50 Kgs.



### HEXPRESS HY - 1000

(Hydraulic)  
Dies : R - 11 to R - 29  
Crimping Capacity :  
120mm<sup>2</sup> to 1000mm<sup>2</sup>  
Weight : 25.50 Kgs.

## HEXPRESS CRIMPING TOOLS

### HEXPRESS - H - 50

(Dieless) Crimping Capacity :  
for Cu. & Al.  
Crimping socket : 25, 35 & 50mm<sup>2</sup>  
for Ring Type : 16, 25 & 35mm<sup>2</sup>  
Weight : 1.70 Kgs.



### HEXPRESS - H - 70

(Dieless)  
for Ring Type only  
Crimping Capacity :  
16 to 70mm<sup>2</sup>  
Weight : 2.95 Kgs.



### HEXPRESS HYF - 400

(Hydraulic Foot Operated)  
Crimping Capacity :  
50mm<sup>2</sup> to 400mm<sup>2</sup>  
Weight : 17.0 Kgs.



### F1 - 185

Round Profile Dies  
R - 1 to R - 13



### G - 400

Hex Profile Dies  
H - 50 to H - 400



### G1 - 400

Hex Profile Dies  
H - 50 to H - 400



### HY - 400

R - 11 to R - 15

R - 16 to R - 18



### HY - 1000

R - 11 to R - 14

R - 15 to R - 18

R - 19 to R - 29



**PLEASE NOTE : Die Nos. R - 8 does not exist for any type of tool**



## HEXPRESS CRIMPING TOOLS

### HEXPRESS - 01

(For Insulated)

Crimping Capacity : 1.5mm<sup>2</sup> to 2.5mm<sup>2</sup> 4.6mm<sup>2</sup>  
Weight : 556 gms.



### HEXPRESS - 02

(2 in 1) Insulation & End Sealing Ferrules

Crimping Capacity : 0.5mm<sup>2</sup> - 2.5mm<sup>2</sup>  
Weight : 414 gms.



### HEXPRESS - 03

(For End Sealing Ferrules)

Crimping Capacity : 0.25mm<sup>2</sup> - 10mm<sup>2</sup>  
Weight : 420 gms.



### HEXPRESS - 04

(For End Sealing Ferrules)

Crimping Capacity : 6mm<sup>2</sup> - 16mm<sup>2</sup>  
Weight : 556 gms.



### HEXPRESS - 05

(3 in 1) Insulation,  
End Sealing & Ordinary Lugs

Crimping Capacity : 0.5mm<sup>2</sup> - 6mm<sup>2</sup>  
Weight : 702 gms.



### HEXPRESS - 06

(Hydraulic Hand Operated)

Crimping Capacity : 16mm<sup>2</sup> - 300mm<sup>2</sup>  
Weight : 5.10 Kgs.



### HEXPRESS - 07

HEAVY DUTY

(Hydraulic Hand Operated)

Crimping Capacity : 16mm<sup>2</sup> - 300mm<sup>2</sup>  
Weight : 5.32 Kgs.



### HEXPRESS - 09

(Wire Cutter)

Cutting Capacity :  
upto 30mm<sup>2</sup>  
Weight : 160 gms.



### HEXPRESS - 10

(Wire stripper cum cutter) (2 in 1)

Cutting Capacity :  
0.6mm<sup>2</sup> - 5mm<sup>2</sup>  
Weight : 290 gms.



### HEXPRESS - 11

(Fasting Tool for Cable Tie)  
Suitable for just bind Wire &  
Automatic Cutting  
Weight : 330 gms.



## HEXPRESS CRIMPING TOOLS

### HEXPRESS - 12

(Snap On)  
Crimping Capacity :  
1.5mm<sup>2</sup>, 2.5mm<sup>2</sup> & 4.6mm<sup>2</sup>  
Weight : 548 gms.



### HEXPRESS - 13

(Cable Cutter) Cutting Capacity :  
upto 500mm<sup>2</sup>  
Weight : 2.72 Kgs.



### HEXPRESS - 14

(Wire Cutter)  
Cutting Capacity :  
up to 70mm<sup>2</sup>  
Weight : 290 gms.



### HEXPRESS - 17

Copper Tube Terminal Crimping Tool  
Crimping Capacity : 6mm<sup>2</sup> - 50mm<sup>2</sup>  
Weight : 1.30 Kgs.



### HEXPRESS - 18

Copper Tube Terminal Crimping Tool  
Crimping Capacity : 25mm<sup>2</sup> - 150mm<sup>2</sup>  
Weight : 4.0 Kgs.



### HEXPRESS - 19

Insulated & Non-insulated End Sealing Ferrules  
Crimping Capacity : 1.5mm<sup>2</sup> - 6mm<sup>2</sup>  
Weight : 12 gms.



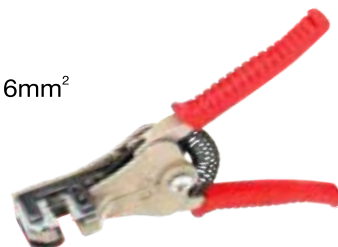
### HEXPRESS - 20

Insulated & Non-insulated End Sealing Ferrules  
Crimping Capacity : 0.5mm<sup>2</sup> - 16mm<sup>2</sup>  
Weight : 25 gms.



### HEXPRESS - 21

Automatic Wire Strippers  
Stripping Range : 0.5mm<sup>2</sup> - 6mm<sup>2</sup>  
Weight : 36 gms.



### HEXPRESS - 22

Cable Insulation Stripping Knife  
Stripping Range : Over 25 mm Dia.  
Weight : 160 gms.



### HSC - 100

Corrosion Inhibiting Compound  
For Aluminium to Aluminium or  
Aluminium to Copper Joints  
Weight : 50 gms.



### HEXPRESS - 400

(Hydraulic Hand Operated)  
Crimping Capacity :  
Aluminium : 10mm<sup>2</sup> - 400mm<sup>2</sup>  
Copper : 16mm<sup>2</sup> - 400mm<sup>2</sup>  
Weight : 7.00 Kgs.

