

Connector Buddy



Utilux Custom Connectors

MIDDY'S
DATA & ELECTRICAL

48 HOURS

- ✓ **Ordered**
- using UCC request form
- ✓ **Manufactured**
- to your specification
- ✓ **Dispatched**
- sent express

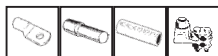


Enquire at your local branch for hiring of crimp tools

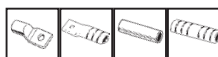
Applicable to non-catalogue items only.
Lead time subject to prompt customer sign off.

TE
connectivity

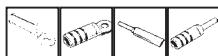
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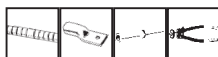
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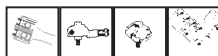
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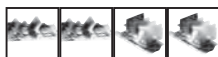

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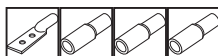
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UTILUX

Utilux is a brand that has built an enviable reputation for high quality, reliable electrical connectors. For over 80 years, this dynamic Australian brand has been a leader in the field of interconnection systems. Utilux has now joined the truly innovative, international market leader, TE Connectivity.

Our aim is to provide the best possible products and services to keep our customers at the cutting edge of industry standards - internationally.

QUALITY YOU CAN RELY ON

The Utilux manufacturing operation is certified to International Standards Organisation (ISO) 9001:2000 quality standards, the benchmark for the worlds best practice in design and production facilities and methods. TE's highly skilled technical team ensures that these optimal standards are inherent in every product that leaves our factories. You can be sure that Utilux branded products are fabricated from the finest materials and produced to exacting tolerances. They represent the latest technology and the best design for the tasks they are required to perform.

RELIABLE ELECTRICAL CONNECTORS

Utilux is a leading brand of electrical connectors sold to original equipment manufacturers and electrical distribution companies throughout Australia, New Zealand and Asia. A comprehensive range, the most up to date production technology and the highest quality control standards ensure that there are Utilux connectors, of optimum reliability and durability, for all major power distribution applications.

RESEARCH & DEVELOPMENT

As part of the worlds largest electrical connector company, the development of products is an ongoing commitment. It is done on a global basis, utilising the talents of many people throughout the organisation to ensure a global product for a local market.

TECHNICAL ASSISTANCE

Whether dealing direct with TE Connectivity or a Distributor, a full team of experienced technical sales and support people are available to assist in the purchase of products shown in the catalogue or to develop a solution to meet your particular needs.

CATALOGUE

This catalogue is correct at the time of printing but due to ongoing design reviews and product development, TE Connectivity reserves the right to modify the specification of any product without notice.

SECTION 1











COPPER CONDUCTOR TERMINATIONS

1

This range of Utilux Copper Lugs and Links is generally designed for standard metric building cable conforming to AS1125-174. However other types of cable can be used with the correct crimping procedures. The range covers a variety of products including links with solid barriers for oil filled conductor and Sealed Copper Lugs for paper insulated conductors.

With over 80 years of experience Utilux has engineered the correct combination of material thickness and crimp die selection to ensure that the optimum compression ratios are achieved when crimping. Annealing also ensures that connectors can be crimped without damage and electro tinning minimises corrosion.

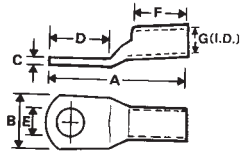
These features combined with correct termination procedures will ensure a connection that will perform for many years. Please refer to your local Utilux Technical Sales Engineer for crimping recommendations or for further information.

| CRIMP LUGS | STYLE | CONDUCTOR AREA | PAGE |
|---|---|----------------------------|------|
|  | Copper Crimp Lug | 2.5-1000 | 2 |
| | Narrow Palm | 35-300 | 4 |
| | Copper Flared Lug | 25-185 | 5 |
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|  | Copper Crimp Link Solid Barrier | 10-630mm ² | 7 |
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| CONNECTORS | STYLE | CONDUCTOR AREA | PAGE |
|  | Crimp Cable Connector | 1-2x50/0.25mm ² | 7 |
| C CONNECTORS | STYLE | CONDUCTOR AREA | PAGE |
| | C Connector | 6-630mm ² | 13 |
| T-CLAMPS | STYLE | MAIN CABLE RANGE | PAGE |
|  | Bolted Tee Clamp | 70-240mm ² | 12 |



COPPER CRIMP LUG

- Suitable for copper conductor • Range 0.5-1000 mm²
- Seamless copper tube • Electro tinned
- Cable area clearly identified on the lug
 - Tested to AS/NZS 4325.1:1995



| DESCRPT. | CAT NO. | CONDUCTOR AREA (mm ²) | CONDUCTOR STRANDING | STUD SIZE | DIMENSIONS (mm ²) | | | | | | NO. OF CRIMPS (Tool No.) | | | | | | | CRIMPING DIE |
|----------|---------|--------------------------------------|------------------------|--------------|-------------------------------|------|-----|------|------|-----|--------------------------|----|----|----|----|----|-----|-----------------|
| | | | | | A | B | C | D | F | G | 76 | 00 | 18 | 20 | 21 | 22 | 38A | |
| CG0.5M4 | H1399 | 0.5 | 1/0.80 | M4 | 17.5 | 6.4 | 1.4 | 9.5 | 6.0 | 2.1 | - | - | - | - | - | - | - | |
| CG0.5M4 | H1400 | | | M4 | 19.1 | 6.4 | 1.4 | 11.1 | 6.0 | 2.1 | 1 | 1 | 1 | - | - | - | - | |
| CG0.5SM5 | H1401S | | | M5 | 19.1 | 8.7 | 1.0 | 11.1 | 6.0 | 2.1 | 1 | 1 | 1 | - | - | - | - | |
| CG0.5LM5 | H1401L | | | M5 | 26.6 | 8.7 | 1.0 | 15.1 | 9.5 | 2.1 | 2 | 2 | 1 | - | - | - | - | |
| CG0.5M6 | H1402 | | | M6 | 26.2 | 10.3 | 0.9 | 15.1 | 9.5 | 2.1 | 2 | 2 | 1 | - | - | - | - | |
| CG0.5M8 | H1402A | | | M8 | 26.2 | 11.1 | 0.8 | 15.1 | 9.5 | 2.1 | 2 | 2 | 1 | - | - | - | - | |
| CG2.5M4 | H1436A | 2.5 | 7/0.67 | M4 | 21.4 | 9.1 | 1.1 | 11.9 | 8.0 | 2.5 | 2 | 1 | 1 | - | - | - | - | |
| CG2.5M5 | H1436 | | | M5 | 21.4 | 9.1 | 1.1 | 11.9 | 8.0 | 2.5 | 2 | 1 | 1 | - | - | - | - | |
| CG2.5M6 | H1437 | | | M6 | 26.2 | 10.3 | 0.9 | 15.1 | 8.7 | 2.5 | 2 | 2 | 1 | - | - | - | - | |
| CG2.5M8 | H1437A | | | M8 | 26.2 | 10.3 | 0.9 | 15.1 | 8.7 | 2.5 | 2 | 2 | 1 | - | - | - | - | |
| CG4SM5 | H1403S | | | M5 | 21.0 | 8.7 | 1.5 | 11.1 | 8.0 | 3.3 | 2 | 1 | 1 | - | - | - | - | |
| CG4LM5 | H1403L | | | M5 | 27.3 | 8.7 | 1.5 | 14.7 | 9.2 | 3.3 | 2 | 2 | 1 | - | - | - | - | |
| CG4M6 | H1404 | 4 | 7/0.85 | M6 | 27.8 | 10.3 | 1.2 | 15.1 | 9.5 | 3.3 | 2 | 2 | 1 | - | - | - | - | |
| CG4M8 | H1404A | | | M8 | 28.6 | 13.0 | 1.0 | 13.3 | 9.5 | 3.3 | 2 | 2 | 1 | - | - | - | - | |
| CG4M10 | H1404B | | | M10 | 28.6 | 13.0 | 1.0 | 16.3 | 9.5 | 3.3 | 2 | 2 | 1 | - | - | - | - | |
| CG6M6 | H1405 | | | M6 | 27.0 | 10.3 | 1.2 | 15.0 | 9.5 | 3.7 | - | 2 | 1 | - | 1 | 1 | 1 | |
| CG6M8 | H1405A | 6 | 7/1.04 | M8 | 28.6 | 13.9 | 0.9 | 16.7 | 9.5 | 3.7 | - | 2 | 1 | - | 1 | 1 | 1 | 38-44CU |
| CG6M10 | H1405B | | | M10 | 28.6 | 13.9 | 0.9 | 16.7 | 9.5 | 3.7 | - | 2 | 1 | - | 1 | 1 | 1 | |
| CG10SM6 | H1406S | | | M6 | 27.0 | 11.9 | 1.8 | 15.5 | 9.5 | 4.7 | - | 2 | 1 | - | 1 | 1 | 1 | |
| CG10LM6 | H1406L | 10 | 7/1.35 | M6 | 29.4 | 11.9 | 1.8 | 15.5 | 11.5 | 4.7 | - | 2 | 2 | - | 1 | 1 | 1 | 38-57CU |
| CG10M8 | H1406A | | | M8 | 28.6 | 14.3 | 1.6 | 16.3 | 9.5 | 4.7 | - | 2 | 1 | - | 1 | 1 | 1 | |
| CG10M10 | H1406B | | | M10 | 30.6 | 14.3 | 1.6 | 16.3 | 9.5 | 4.7 | - | 2 | 1 | - | 1 | 1 | 1 | |
| CG10M12 | H1406C | | | M12 | 33.0 | 17.0 | 1.4 | 20.0 | 11.0 | 4.7 | - | 2 | 1 | - | 1 | 1 | 1 | |
| CG16M5 | H1407A | 16 | 7/1.70 | M5 | 39.7 | 11.6 | 2.3 | 16.3 | 20.6 | 5.5 | - | - | 3 | 2 | 2 | 2 | 1 | 38-63CU |
| CG16M6 | H1407 | | | M6 | 39.7 | 11.6 | 2.3 | 16.3 | 20.6 | 5.5 | - | - | 3 | 2 | 2 | 2 | 1 | |
| CG16M8 | H1408 | | | M8 | 39.7 | 13.5 | 1.9 | 16.3 | 20.6 | 5.5 | - | - | 3 | 2 | 2 | 2 | 1 | |
| CG16M10 | H1408A | | | M10 | 41.5 | 13.5 | 1.9 | 18.5 | 20.6 | 5.5 | - | - | 3 | 2 | 2 | 2 | 1 | 38-77CU |
| CG16M11 | H1445 | | | M11 | 43.6 | 16.7 | 2.8 | 19.0 | 22.2 | 5.5 | - | - | - | 2 | 2 | 2 | 1 | |
| CG16M12 | H1408B | | | M12 | 46.0 | 17.5 | 1.4 | 20.5 | 19.0 | 5.5 | - | - | - | 2 | 2 | 2 | 1 | |
| CG20M6 | H1409 | 20 | 19/0.44 | M6 | 34.9 | 12.5 | 2.3 | 14.3 | 19.0 | 6.3 | - | - | - | 2 | 2 | 2 | 1 | 38-70CU |
| CG20M8 | H1410 | | | M8 | 42.1 | 13.5 | 2.2 | 19.0 | 20.3 | 6.3 | - | - | - | 2 | 2 | 2 | 1 | |
| CG20M10 | H1411 | | | M10 | 42.1 | 14.3 | 2.0 | 19.0 | 20.3 | 6.3 | - | - | - | 2 | 2 | 2 | 1 | |
| CG20M12 | H1411A | | | M11 | 42.1 | 15.2 | 1.9 | 19.0 | 20.3 | 6.3 | - | - | - | 2 | 2 | 2 | 1 | |
| CG25M6 | H1415A | 25 | 19/1.35 | M6 | 43.6 | 16.7 | 2.2 | 19.0 | 22.0 | 7.1 | - | - | - | 2 | 2 | 2 | 1 | 38-77CU |
| CG25M8 | H1415 | | | M8 | 43.6 | 16.7 | 2.2 | 19.0 | 22.0 | 7.1 | - | - | - | 2 | 2 | 2 | 1 | |
| CG25M10 | H1416 | | | M10 | 43.6 | 16.7 | 1.9 | 19.0 | 22.0 | 7.1 | - | - | - | 2 | 2 | 2 | 1 | |
| CG25M11 | H1416A | | | M11 | 43.6 | 16.7 | 1.9 | 19.0 | 22.0 | 7.1 | - | - | - | 2 | 2 | 2 | 1 | |
| CG25M12 | H1416B | | | M12 | 51.0 | 18.2 | 1.7 | 25.4 | 21.0 | 7.1 | - | - | - | 2 | 2 | 2 | 1 | |

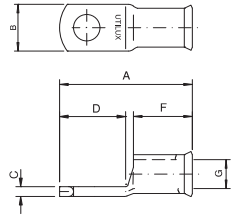
| DESCRPT. | CAT NO. | CONDUCTOR AREA (mm²) | CONDUCTOR STRANDING | STUD SIZE | DIMENSIONS (mm²) | | | | | | NO. OF CRIMPS (Tool No.) | | | | | CRIMPING DIE |
|----------|---------|-------------------------|------------------------|---------------------------------|------------------|------|------|-------|-------|------|--------------------------|------|----|-----|-----|----------------------------------|
| | | | | | A | B | C | D | F | G | 20 | 21 | 22 | 38A | 40B | |
| CG35M6 | H1365 | 35 | 19/1.53 | M6 | 43.6 | 18.2 | 2.7 | 19.0 | 22.2 | 8.4 | 2 | 2 | 2 | 1 | - | 38-92CU |
| CG35M8 | H1366 | | | M8 | 43.6 | 18.2 | 2.7 | 19.0 | 22.2 | 8.4 | 2 | 2 | 2 | 1 | - | |
| CG35M10 | H1368 | | | M10 | 43.6 | 18.2 | 2.7 | 19.0 | 22.2 | 8.4 | 2 | 2 | 2 | 1 | - | |
| CG35M12 | H1369 | | | M12 | 51.2 | 20.0 | 2.4 | 24.5 | 22.0 | 8.4 | 2 | 2 | 2 | 1 | - | |
| CG35M11 | H1442 | 38 | 7/0.104 | M11 | 51.6 | 19.0 | 3.7 | 27.0 | 22.2 | 8.7 | 2 | 2 | 2 | 1 | - | 38-104CU |
| CG50M8 | H1419 | 50 | 19/1.78 | M8 | 51.6 | 18.2 | 3.1 | 27.0 | 22.2 | 9.5 | 2 | 2 | 2 | 1 | - | 38-104CU |
| CG50M10 | H1420 | | | M10 | 51.6 | 19.0 | 3.0 | 27.0 | 22.2 | 9.5 | 2 | 2 | 2 | 1 | - | |
| CG50M12 | H1421 | | | M12 | 51.6 | 20.6 | 2.8 | 27.0 | 22.2 | 9.5 | 2 | 2 | 2 | 1 | - | |
| CG70M6 | H1422B | | | M6 | 54.0 | 20.6 | 3.2 | 27.0 | 23.0 | 11.0 | 2 | - | 2 | 1 | - | |
| CG70M8 | H1422A | 70 | 19/2.14 | M8 | 54.0 | 20.6 | 3.2 | 27.0 | 23.0 | 11.0 | 2 | - | 2 | 1 | - | 38-115CU |
| CG70M10 | H1422 | | | M10 | 54.0 | 20.6 | 3.2 | 27.0 | 23.0 | 11.0 | 2 | - | 2 | 1 | - | |
| CG70M12 | H1423 | | | M12 | 54.0 | 20.6 | 3.2 | 27.0 | 23.0 | 11.0 | 2 | - | 2 | 1 | - | |
| CG70M16 | H1423A | | | M16 | 54.2 | 27.5 | 2.4 | 27.0 | 22.0 | 11.0 | 2 | - | 2 | 1 | - | |
| CG70M11 | H1443 | | | M11 | 54.0 | 22.2 | 4.7 | 27.0 | 23.0 | 11.2 | 2 | - | 2 | 1 | - | |
| CG70M20 | H1439 | | | Is H1438 Sleeved to suit 19/083 | | M20 | 76.0 | 28.6 | 3.5 | 45.0 | 25.4 | 11.0 | - | - | - | |
| CG95M6 | H1424B | 95 | 37/1.78 | M6 | 57.2 | 25.4 | 4.0 | 27.0 | 27.0 | 13.4 | 2 | - | 2 | 1 | 1 | 38-142CU 40-142CU |
| CG95M8 | H1424C | | | M8 | 57.2 | 25.4 | 4.0 | 27.0 | 27.0 | 13.4 | 2 | - | 2 | 1 | 1 | |
| CG95M10 | H1424 | | | M10 | 57.2 | 25.4 | 4.0 | 27.0 | 27.0 | 13.4 | 2 | - | 2 | 1 | 1 | |
| CG95M12 | H1425 | | | M12 | 57.2 | 25.4 | 4.0 | 27.0 | 27.0 | 13.4 | 2 | - | 2 | 1 | 1 | |
| CG95M16 | H1440 | | | M16 | 75.5 | 27.0 | 3.7 | 45.0 | 25.4 | 13.4 | 2 | - | 2 | 1 | 1 | |
| CG95M20 | H1438 | | | M20 | 75.5 | 28.6 | 3.5 | 45.0 | 25.4 | 13.4 | 2 | - | 2 | 1 | 1 | |
| CG120M10 | H1381 | 120 | 37/2.03 | M10 | 68.3 | 30.0 | 4.8 | 31.8 | 31.0 | 15.5 | - | - | 2 | 2 | 1 | 38-165CU 40-165CU |
| CG120M12 | H1382 | | | M12 | 68.3 | 30.0 | 4.8 | 31.8 | 31.0 | 15.5 | - | - | 2 | 2 | 1 | |
| CG120M16 | H1383 | | | M16 | 68.3 | 30.0 | 4.8 | 31.8 | 31.0 | 15.5 | - | - | 2 | 2 | 1 | |
| CG120M20 | H1382B | | | M20 | 68.3 | 30.0 | 4.8 | 31.8 | 31.0 | 15.5 | - | - | 2 | 2 | 1 | |
| CG150M10 | H1384A* | 150 | 37/2.25 | M10 | 75.0 | 33.5 | 5.4 | 41.3 | 27.0 | 16.3 | - | - | - | 2 | 1 | 38-183CU 40-185CU |
| CG150M12 | H1384* | | | M12 | 75.0 | 33.5 | 5.4 | 41.3 | 27.0 | 16.3 | - | - | - | 2 | 1 | |
| CG150M16 | H1385* | | | M16 | 75.0 | 33.5 | 5.4 | 41.3 | 27.0 | 16.3 | - | - | - | 2 | 1 | |
| CG150M20 | H1386* | | | M20 | 75.0 | 33.5 | 5.4 | 41.3 | 27.0 | 16.3 | - | - | - | 2 | 1 | |
| CG185M10 | H1387A | 185 | 37/2.52 | M10 | 79.0 | 36.5 | 5.2 | 41.3 | 31.0 | 18.4 | - | - | - | 2 | 1 | 38-200CU 40-200CU |
| CG185M12 | H1387 | | | M12 | 79.0 | 36.5 | 5.2 | 41.3 | 31.0 | 18.4 | - | - | - | 2 | 1 | |
| CG185M16 | H1388 | | | M16 | 79.0 | 36.5 | 5.2 | 41.3 | 31.0 | 18.4 | - | - | - | 2 | 1 | |
| CG185M20 | H1389 | | | M20 | 79.0 | 36.5 | 5.2 | 41.3 | 31.0 | 18.4 | - | - | - | 2 | 1 | |
| CG240MB | H1390* | 240 | 61/2.25 | MB | 127.0 | 41.6 | 7.1 | 54.0 | 47.6 | 21.2 | - | - | - | 3 | 1 | 38-231CU 40-231CU |
| CG240M10 | H1390D* | | | M10 | 127.0 | 41.6 | 7.1 | 54.0 | 47.6 | 21.2 | - | - | - | 3 | 1 | |
| CG240M12 | H1390A* | | | M12 | 127.0 | 41.6 | 7.1 | 54.0 | 47.6 | 21.2 | - | - | - | 3 | 1 | |
| CG240M16 | H1390B* | | | M16 | 127.0 | 41.6 | 7.1 | 54.0 | 47.6 | 21.2 | - | - | - | 3 | 1 | |
| CG240M20 | H1390C* | | | M20 | 127.0 | 41.6 | 7.1 | 54.0 | 47.6 | 21.2 | - | - | - | 3 | 1 | |
| CG300MB | H1391 | 300 | 61/2.52 | MB | 127.0 | 46.0 | 7.9 | 54.0 | 47.6 | 23.8 | - | - | - | 3 | 1 | 38-260CU 40-260CU |
| CG300M16 | H1391A | | | M16 | 127.0 | 46.0 | 7.9 | 54.0 | 47.6 | 23.8 | - | - | - | 3 | 1 | |
| CG300M20 | H1391B | | | M20 | 127.0 | 46.0 | 7.9 | 54.0 | 47.6 | 23.8 | - | - | - | 3 | 1 | |
| CG400MB | H1448 | 400 | 61/2.85 | MB | 123.0 | 49.6 | 7.9 | 54.0 | 41.3 | 26.9 | - | - | - | - | 1 | 50-281CU 40-281CU 66-281CU |
| CG400M16 | H1448A | | | M16 | 123.0 | 49.6 | 7.9 | 54.0 | 41.3 | 26.9 | - | - | - | - | 1 | |
| CG400M20 | H1448B | | | M20 | 123.0 | 49.6 | 7.9 | 54.0 | 41.3 | 26.9 | - | - | - | - | 1 | |
| CG500MB | H1449 | 500 | 61/3.20 | MB | 142.5 | 54.8 | 8.2 | 54.0 | 55.5 | 30.0 | - | - | - | - | 2 | 50-310CU 40-310CU 66-310CU |
| CG500M16 | H1449A | | | M16 | 142.5 | 54.8 | 8.2 | 54.0 | 55.5 | 30.0 | - | - | - | - | 2 | |
| CG500M20 | H1449B | | | M20 | 142.5 | 54.8 | 8.2 | 54.0 | 55.5 | 30.0 | - | - | - | - | 2 | |
| CG630MB | H1394* | 630 | 127/2.52 | MB | 146.0 | 63.5 | 11.5 | 54.0 | 58.0 | 33.5 | - | - | - | - | 2 | 50-70CU 40-370CU |
| CG800MB | H1370 | 800 | 127/2.85 | MB | 275.0 | 75.0 | 14.0 | 127.0 | 105.0 | 39.3 | - | - | - | - | 3 | 40-432CU |
| CG1000MB | H1371 | 1000 | 127/3.20 | MB | 295.0 | 85.0 | 16.0 | 125.0 | 110.0 | 44.0 | - | - | - | - | 3 | 40-480CU |

All sizes of crimp lugs are compatible with imperial size cables except those marked*



NARROW PALM

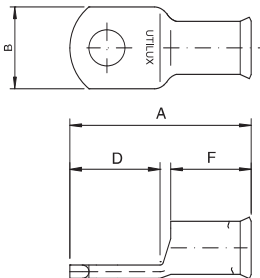
- Specially made for terminating large cables to circuit breakers
- Unique bell mouth for easy insertion of fine stranded conductors
- Made for 99.9%+ high conductivity copper



| CAT NO. | NOMINAL CONDUCTOR mm ² | BOLT SIZE | DIMENSIONS mm | | | | | | NO. OF CRIMPS (Tool NO.) | | | | | | CRIMPING DIE |
|------------|-----------------------------------|-----------|---------------|----|-----|----|----|------|--------------------------|----|----|-----|-----|--|--------------|
| | | | A | B | C | D | F | G | 20 | 21 | 22 | 38A | 40B | | |
| CGNP35M6 | 35 | M6 | 44 | 15 | 2.7 | 15 | 21 | 8.4 | 2 | 2 | 2 | 1 | - | | 38-92CU |
| CGNP50M6 | 50 | M6 | 52 | 15 | 3.0 | 15 | 22 | 9.5 | 2 | 2 | 2 | 1 | - | | 38-104CU |
| CGNP50M10 | 50 | M10 | 52 | 19 | 3.0 | 21 | 22 | 9.5 | 2 | 2 | 2 | 1 | - | | |
| CGNP70M6 | 70 | M6 | 54 | 17 | 3.2 | 15 | 24 | 11.0 | 2 | - | 2 | 1 | - | | 38-115CU |
| CGNP70M10 | 70 | M10 | 54 | 19 | 3.2 | 21 | 24 | 11.0 | 2 | - | 2 | 1 | - | | |
| CGNP95M8 | 95 | M8 | 57 | 19 | 4 | 17 | 27 | 13.4 | 2 | - | 2 | 1 | - | | 38-142CU |
| CGNP95M10 | 95 | M10 | 57 | 19 | 4 | 21 | 27 | 13.4 | 2 | - | 2 | 1 | - | | |
| CGNP120M8 | 120 | M8 | 68 | 19 | 4.8 | 23 | 30 | 15.5 | - | - | 2 | 2 | 1 | | 38-165CU |
| CGNP120M10 | 120 | M10 | 68 | 19 | 4.8 | 23 | 30 | 15.5 | - | - | 2 | 2 | 1 | | |
| CGNP150M8 | 150 | M8 | 75 | 19 | 5.4 | 27 | 30 | 16.3 | - | - | - | 2 | 1 | | 38-183CU |
| CGNP150M10 | 150 | M10 | 75 | 19 | 5.4 | 27 | 30 | 16.3 | - | - | - | 2 | 1 | | |
| CGNP185M10 | 185 | M10 | 79 | 31 | 5.2 | 32 | 32 | 18.4 | - | - | - | 2 | 1 | | 38-200CU |
| CGNP240M10 | 240 | M10 | 127 | 31 | 7.1 | 32 | 38 | 21.2 | - | - | - | 3 | 1 | | 38-231CU |
| CGNP240M12 | 240 | M12 | 127 | 31 | 7.1 | 32 | 38 | 21.2 | - | - | - | 3 | 1 | | |
| CGNP300M10 | 300 | M10 | 127 | 31 | 7.9 | 32 | 42 | 23.8 | - | - | - | 3 | 1 | | 38-260CU |
| CGNP300M12 | 300 | M12 | 127 | 31 | 7.9 | 32 | 42 | 23.8 | - | - | - | 3 | 1 | | |

COPPER FLARED LUGS

The range of flared copper lugs has been designed with the barrel entry flared to enable an easy insertion of multi stranded cables (flexible cable). The range of connectors (from 25mm² to 185mm²) will ensure most applications for the common flexible cable sizes are covered. The flared copper lugs are made from seamless copper tube, electro tin plated and have the cable area clearly marked on the palm of the lug. The inspection window on the barrel provides a check that the cable has been fully inserted. The flared lugs can be crimped with the standard range of Utilux tooling and hexagonal dies.

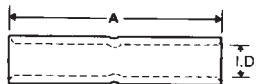

1

| CAT NO. | CONDUCTOR SIZE (mm ²) | STRANDING METRIC | BOLT SIZE | DIMENSIONS (mm) | | | | NO. OF CRIMPS (Tool No.) | | | | | CRIMPING DIE |
|------------|-----------------------------------|------------------|-----------|-----------------|----|----|----|--------------------------|----|----|-----|-----|--------------|
| | | | | A | B | D | F | 20 | 21 | 22 | 38A | 40B | |
| CG25FLM6 | 25 | 209/0.40 | M6 | 44 | 17 | 19 | 22 | 2 | 2 | 2 | 1 | - | 38-77CU |
| CG25FLM8 | | 209/0.40 | M8 | 44 | 17 | 19 | 22 | 2 | 2 | 2 | 1 | - | |
| CG25FLM10 | | 209/0.40 | M10 | 44 | 17 | 19 | 22 | 2 | 2 | 2 | 1 | - | |
| CG25FLM12 | | 209/0.40 | M12 | 44 | 17 | 19 | 22 | 2 | 2 | 2 | 1 | - | |
| CG35FLM6 | 35 | 285/0.40 | M6 | 44 | 18 | 19 | 22 | 2 | 2 | 2 | 1 | - | 38-92CU |
| CG35FLM8 | | 285/0.40 | M8 | 44 | 18 | 19 | 22 | 2 | 2 | 2 | 1 | - | |
| CG35FLM10 | | 285/0.40 | M10 | 44 | 18 | 19 | 22 | 2 | 2 | 2 | 1 | - | |
| CG35FLM12 | | 285/0.40 | M12 | 44 | 18 | 19 | 22 | 2 | 2 | 2 | 1 | - | |
| CG50FLM8 | 50 | 380/0.40 | M8 | 52 | 21 | 27 | 22 | 2 | 2 | 2 | 1 | - | 38-104CU |
| CG50FLM10 | | 380/0.40 | M10 | 52 | 21 | 27 | 22 | 2 | 2 | 2 | 1 | - | |
| CG50FLM12 | | 380/0.40 | M12 | 52 | 21 | 27 | 22 | 2 | 2 | 2 | 1 | - | |
| CG70FLM6 | 70 | 203/0.67 | M6 | 54 | 21 | 27 | 23 | 2 | - | 2 | 1 | - | 38-115CU |
| CG70FLM8 | | 203/0.67 | M8 | 54 | 21 | 27 | 23 | 2 | - | 2 | 1 | - | |
| CG70FLM10 | | 203/0.67 | M10 | 54 | 21 | 27 | 23 | 2 | - | 2 | 1 | - | |
| CG70FLM12 | | 203/0.67 | M12 | 54 | 21 | 27 | 23 | 2 | - | 2 | 1 | - | |
| CG95FLM6 | 95 | 259/0.67 | M6 | 57 | 25 | 27 | 27 | 2 | - | 2 | 1 | - | 38-142CU |
| CG95FLM8 | | 259/0.67 | M8 | 57 | 25 | 27 | 27 | 2 | - | 2 | 1 | - | |
| CG95FLM10 | | 259/0.67 | M10 | 57 | 25 | 27 | 27 | 2 | - | 2 | 1 | - | |
| CG95FLM12 | | 259/0.67 | M12 | 57 | 25 | 27 | 27 | 2 | - | 2 | 1 | - | |
| CG120FLM10 | 120 | 336/0.67 | M10 | 68 | 30 | 32 | 31 | - | - | 2 | 2 | 1 | 38-165CU |
| CG120FLM12 | | 336/0.67 | M12 | 68 | 30 | 32 | 31 | - | - | 2 | 2 | 1 | |
| CG120FLM16 | | 336/0.67 | M16 | 68 | 30 | 32 | 31 | - | - | 2 | 2 | 1 | |
| CG150FLM12 | 150 | 427/0.67 | M12 | 75 | 34 | 32 | 27 | - | - | - | 2 | 1 | 38-183CU |
| CG150FLM16 | | 427/0.67 | M16 | 75 | 34 | 32 | 27 | - | - | - | 2 | 1 | |
| CG185FLM12 | 185 | 518/0.67 | M12 | 79 | 34 | 32 | 31 | - | - | - | 2 | 1 | 38-200CU |
| CG185FLM16 | | 518/0.67 | M16 | 79 | 34 | 32 | 31 | - | - | - | 2 | 1 | |



COPPER CRIMP LINKS

- Solid drawn copper tube
- Centre dimples • Ends reamed



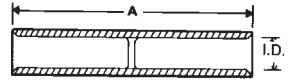
| DESCRPT. | CAT NO. | CONDUCTOR AREA mm² | STRANDING METRIC | DIMENSIONS mm | | NO. OF CRIMPS (TOOL NO.) | | | | | | | CRIMPING DIE |
|----------|---------|--------------------------|---------------------|------------------|------|--------------------------|----|----|----|----|-----|-----|-----------------|
| | | | | A | I.D. | 00 | 18 | 20 | 21 | 22 | 38A | 40B | |
| CK0.5 | H1451 | 0.5 | 1/0.80 | 22 | 2.1 | 2 | - | - | - | - | - | - | |
| CK02.5 | H1467 | 2.5 | 7/0.67 | 22 | 2.5 | 2 | - | - | - | - | - | - | |
| CK4 | H1452 | 4 | 7/0.85 | 22 | 3.3 | 2 | 1 | - | - | - | - | - | |
| CK6 | H1453 | 6 | 7/1.04 | 22 | 3.7 | 2 | 1 | - | 2 | 2 | 1 | - | 38-44CU |
| CK10 | H1454 | 10 | 7/1.35 | 22 | 4.7 | 2 | 1 | - | 2 | 2 | 1 | - | 38-57CU |
| CK16 | H1455 | 16 | 7/1.70 | 44 | 5.5 | - | 3 | 2 | 2 | 2 | 1 | - | 38-63CU |
| CK20 | H1456 | 20 | 19/.044 | 44 | 6.3 | - | - | 2 | 2 | 2 | 1 | - | 38-70CU |
| CK25 | H1458 | 25 | 19/1.35 | 48 | 7.1 | - | - | 2 | 2 | 2 | 1 | - | 38-77CU |
| CK35 | H1488 | 35 | 19/1.53 | 48 | 8.4 | - | - | 2 | 2 | 2 | 1 | - | 38-92CU |
| CK50 | H1460 | 50 | 19/1.78 | 48 | 9.5 | - | - | 2 | 2 | 2 | 1 | - | 38-104CU |
| CK70 | H1461 | 70 | 19/2.14 | 51 | 11.0 | - | - | 2 | - | 2 | 1 | - | 38-115CU |
| CK95 | H1462 | 95 | 37/1.78 | 54 | 13.4 | - | - | 2 | - | 2 | 1 | 1 | 38-142CU |
| CK120 | H1492 | 120 | 37/2.03 | 65 | 15.5 | - | - | - | - | 2 | 2 | 1 | 38-165CU |
| CK150 | H1493* | 150 | 37/2.25 | 65 | 16.3 | - | - | - | - | - | 2 | 1 | 38-183CU |
| CK185 | H1494 | 185 | 37/2.52 | 65 | 18.4 | - | - | - | - | - | 2 | 1 | 38-200CU |
| CK240 | H1495 | 240 | 61/2.25 | 89 | 21.2 | - | - | - | - | - | 3 | 1 | 38-231CU |
| CK300 | H1496 | 300 | 61.2.52 | 89 | 23.8 | - | - | - | - | - | 3 | 1 | 38-260CU |
| CK400 | H1470 | 400 | 61/2.85 | 89 | 26.8 | - | - | - | - | - | - | 1 | 40-281CU |
| CK500 | H1471 | 500 | 61/3.20 | 114 | 30.0 | - | - | - | - | - | - | 2 | 40-310CU |
| CK630 | H1499* | 630 | 127/2.52 | 114 | 33.5 | - | - | - | - | - | - | 2 | 40-370CU |
| CK800 | H1474 | 800 | 127/2.85 | 230 | 39.3 | - | - | - | - | - | - | 3 | 40-432CU |
| CK1000 | H1475 | 1000 | 127/3.20 | 230 | 43.8 | - | - | - | - | - | - | 3 | 40-480CU |

All sizes of crimp links are compatible with imperial size cables except those marked*



COPPER CRIMP LINKS – WITH SOLID BARRIER

- For use with oil filled cables
- Solid drawn copper rod
- Electro tinned
- Solid centre barriers
- Ends reamed

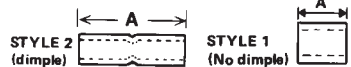


| DESCRPT. | CAT NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | DIMENSIONS | | NO. OF CRIMPS (Tool No.) | | | | | CRIMPING DIE |
|----------|---------|-----------------------------------|---------------------|------------|------|--------------------------|----|----|-----|-----|-----------------|
| | | | | A | I.D. | 20 | 21 | 22 | 38A | 40B | |
| CKB10 | H1782 | 10 | 7/1.35 | 48 | 4.7 | - | 2 | 2 | 1 | - | 38-57CU |
| CKB16 | H1781 | 16 | 7/1.70 | 44 | 5.5 | 2 | 2 | 2 | 1 | - | 38-63CU |
| CKB20 | H1786 | 20 | 7/2.14 | 44 | 6.7 | 2 | 2 | 2 | 1 | - | 38-74CU |
| CKB25 | H1779 | 25 | 19/1.35 | 48 | 7.1 | 2 | 2 | 2 | 1 | - | 38-77CU |
| CKB35 | H1791 | 35 | 19/1.53 | 48 | 8.4 | 2 | 2 | 2 | 1 | - | 38-92CU |
| CKB50 | H1770 | 50 | 19/1.78 | 54 | 9.5 | 2 | 2 | 2 | 1 | - | 38-104CU |
| CKB70 | H1771 | 70 | 19/2.14 | 51 | 11.0 | 2 | - | 2 | 1 | - | 38-115CU |
| CKB95 | H1772 | 95 | 37/1.78 | 54 | 13.4 | 2 | - | 2 | 1 | 1 | 38-142CU |
| CKB120 | H1792 | 120 | 37/2.03 | 65 | 15.5 | - | - | 2 | 2 | 1 | 38-165CU |
| CKB150 | H1793 | 150 | 37/2.25 | 65 | 16.3 | - | - | - | 2 | 1 | 38-183CU |
| CKB185 | H1794 | 185 | 37/2.52 | 65 | 18.4 | - | - | - | 2 | 1 | 38-200CU |
| CKB240 | H1795 | 240 | 61/2.25 | 76 | 21.2 | - | - | - | 3 | 1 | 38-231CU |
| CKB300 | H1796 | 300 | 61/2.52 | 76 | 23.8 | - | - | - | 3 | 1 | 38-260CU |
| CKB400 | H1797 | 400 | 61/2.85 | 89 | 26.8 | - | - | - | - | 1 | 40-281CU |
| CKB500 | H1798 | 500 | 61/3.20 | 145 | 30.0 | - | - | - | - | 2 | 40-310CU |
| CKB630 | H1799 | 630 | 127/2.52 | 145 | 33.5 | - | - | - | - | 2 | 40-370CU |

1


CRIMP CABLE CONNECTOR

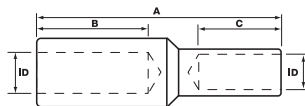
- Seamless drawn Copper tube
- Electro tinned



| CAT NO. | SIZE | DIMENSIONS mm A | STYLE | TOOL NO. |
|---------|-------------|--------------------|-------|-------------------|
| H2038 | 1 | 7.9 | 1 | 00, 16B, 76B |
| H2033 | 1 | 15.1 | 2 | 00, 16B, 76B |
| H2039 | 2 | 7.9 | 1 | 00, 16B, 76B, 18A |
| H2034 | 2 | 15.1 | 2 | 00, 16B, 76B, 18A |
| H2035 | 3 | 14.3 | 2 | 00, 16B, 76B, 18A |
| H2042 | 2 x 24/0.20 | 6.4 | 1 | 00, 16B, 76B |
| H2022 | 2 x 50/0.25 | 8.5 | 1 | 00, 16B, 18A |
| H2027 | 3 x 32/0.20 | 9.5 | 1 | 00, 16B, 18, 76B |
| H2043 | 3 x 32/0.20 | 7.9 | 1 | 00, 16B, 18, 76B |
| H2029 | 5 x 32/0.20 | 9.5 | 1 | 00, 16B, 18A |
| H2041 | 2 x 50/0.25 | 11.1 | 1 | 20, 38A, 21, 22 |

REDUCING LINKS

- Solid drawn copper rod
- Electro tin plated
- Stock sizes shown
- Custom sizes to order
- Crimp with standard Utilux hex dies



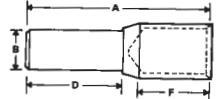
| | | LARGE END | | | | SMALL END | | |
|------------|-----------------------|-------------|----|------|----------------------|-------------|------|-----------------|
| DESCRPT. | CONDUCTOR AREA mm² | DIMENSIONS: | | | CRIMPING DIE | DIMENSIONS: | | CRIMPING DIE |
| | | A | B | ID | | C | ID | |
| CKR16-6 | 16-6 | 55 | 27 | 5.5 | 38-63CU | 28 | 3.7 | 38-44CU |
| CKR16-10 | 16-10 | 55 | 27 | 5.5 | | 28 | 4.5 | 38-57CU |
| CKR25-6 | 25-6 | 56 | 27 | 7.2 | 38-77CU | 29 | 3.7 | 38-44CU |
| CKR25-10 | 25-10 | 56 | 27 | 7.2 | | 29 | 4.5 | 38-57CU |
| CKR25-16 | 25-16 | 56 | 28 | 7.2 | | 29 | 5.5 | 38-63CU |
| CKR35-10 | 35-10 | 56 | 27 | 8.5 | 38-92CU | 29 | 4.5 | 38-57CU |
| CKR35-16 | 35-16 | 56 | 28 | 8.5 | | 29 | 5.5 | 38-63CU |
| CKR35-25 | 35-25 | 56 | 28 | 8.5 | | 28 | 7.2 | 38-77CU |
| CKR50-16 | 50-16 | 58 | 28 | 9.5 | 38-104CU | 30 | 5.5 | 38-63CU |
| CKR50-25 | 50-25 | 58 | 28 | 9.5 | | 30 | 7.2 | 38-77CU |
| CKR50-35 | 50-35 | 58 | 29 | 9.5 | | 30 | 8.5 | 38-92CU |
| CKR70-25 | 70-25 | 58 | 28 | 11 | 38-115CU | 30 | 7.2 | 38-77CU |
| CKR70-35 | 70-35 | 58 | 29 | 11 | | 30 | 8.5 | 38-92CU |
| CKR70-50 | 70-50 | 58 | 29 | 11 | | 30 | 9.5 | 38-104CU |
| CKR95-35 | 95-35 | 75 | 29 | 13.5 | 38-142CU | 46 | 8.5 | 38-92CU |
| CKR95-50 | 95-50 | 75 | 29 | 13.5 | | 46 | 9.5 | 38-104CU |
| CKR95-70 | 95-70 | 75 | 30 | 13.5 | | 46 | 11 | 38-115CU |
| CKR120-50 | 120-50 | 75 | 29 | 15 | 38-165CU | 46 | 9.5 | 38-104CU |
| CKR120-70 | 120-70 | 75 | 30 | 15 | | 46 | 11 | 38-115CU |
| CKR120-95 | 120-95 | 88 | 44 | 15 | | 44 | 13.5 | 38-142CU |
| CKR150-70 | 150-70 | 77 | 30 | 16.5 | 38-183CU | 48 | 11 | 38-115CU |
| CKR150-95 | 150-95 | 90 | 44 | 16.5 | | 46 | 13.5 | 38-142CU |
| CKR150-120 | 150-120 | 90 | 44 | 16.5 | | 46 | 15 | 38-165CU |
| CKR185-95 | 185-95 | 90 | 44 | 18.5 | 38-200CU | 46 | 13.5 | 38-142CU |
| CKR185-120 | 185-120 | 90 | 44 | 18.5 | | 46 | 15 | 38-165CU |
| CKR185-150 | 185-150 | 90 | 45 | 18.5 | | 45 | 16.5 | 38-183CU |
| CKR240-120 | 240-120 | 98 | 44 | 21.5 | 38-231CU 40-231CU | 54 | 15 | 38-165CU |
| CKR240-150 | 240-150 | 98 | 45 | 21.5 | | 53 | 16.5 | 38-183CU |
| CKR240-185 | 240-185 | 98 | 45 | 21.5 | | 53 | 18.5 | 38-200CU |
| CKR300-150 | 300-150 | 98 | 45 | 24 | 38-260CU 40-260CU | 53 | 16.5 | 38-183CU |
| CKR300-185 | 300-185 | 98 | 45 | 24 | | 53 | 18.5 | 38-200CU |
| CKR300-240 | 300-240 | 101 | 50 | 24 | | 51 | 21.5 | 38-231CU |

Any size can be made for items not shown above – complete Utilux Express form on page 99.



COPPER STALK LUG - TYPE 1

- Electro tinned finish
- Alternative sizes made to order



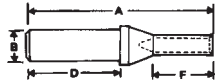
| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | A | B | D | F | CRIMPING DIE |
|------------|---------|--------------------------------|------------------|----|----|----|----|--------------|
| CS1-35/8 | H2309 | 35 | 19/1.53 | 70 | 8 | 34 | 25 | 38-92CU |
| CS1-50/8 | H2313 | 50 | 19/1.78 | 70 | 8 | 34 | 25 | 38-104CU |
| CS1-70/10 | H2331 | 70 | 19/2.14 | 70 | 10 | 34 | 25 | 38-115CU |
| CS1-95/10 | H2334 | 95 | 37/1.78 | 70 | 10 | 34 | 25 | 38-142CU |
| CS1-120/16 | H2314 | 120 | 37/2.03 | 73 | 16 | 38 | 25 | 38-165CU |
| CS1-150/16 | H2318 | 150 | 37/2.25 | 73 | 16 | 38 | 25 | 38-183CU |
| CS1-185/12 | H2319 | 185 | 37/2.52 | 73 | 12 | 38 | 25 | 38/40-200CU |
| CS1-185/16 | H2321 | 185 | 37/2.52 | 73 | 16 | 38 | 25 | 38/40-200CU |

Note: Conductor areas indicated for STYLE 1 are combined areas of wire to be spliced



COPPER STALK LUG - TYPE 2

- Electro tinned finish
- Alternative sizes made to order

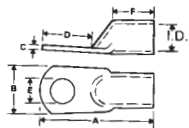


| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | A | B | D | F | CRIMPING DIE |
|-----------|---------|--------------------------------|------------------|----|----|----|----|--------------|
| CS2-16/8 | H2341 | 16 | 7/1.70 | 52 | 8 | 22 | 22 | 38-63CU |
| CS2-16/10 | H2342 | | 7/1.70 | 67 | 10 | 34 | 22 | |
| CS2-25/10 | H2345 | 25 | 19/1.35 | 67 | 10 | 34 | 22 | 38-77CU |
| CS2-25/16 | H2346 | | 19/1.35 | 70 | 16 | 38 | 22 | |
| CS2-35/10 | H2325 | 35 | 19/1.53 | 70 | 10 | 34 | 22 | 38-92CU |
| CS2-35/12 | H2326 | | 19/1.53 | 70 | 12 | 34 | 22 | |
| CS2-35/16 | H2327 | | 19/1.53 | 70 | 16 | 34 | 22 | |
| CS2-50/10 | H2350 | 50 | 19/1.78 | 70 | 10 | 34 | 22 | 38-104CU |
| CS2-50/16 | H2351 | | 19/1.78 | 73 | 16 | 38 | 22 | |
| CS2-70/16 | H2328 | 70 | 19/2.14 | 73 | 16 | 38 | 22 | 38-115CU |
| CS2-95/16 | H2354 | 95 | 37/1.78 | 70 | 16 | 34 | 22 | 38-142CU |



CABLE LUG SOLDER TYPE

- Solid drawn copper tube • Electro tinned • Alternative sizes made to order
- Not recommended for crimping • Bright acid tin finish for easy solderability



SEALED COPPER CRIMP LUGS

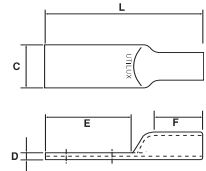
- Long barrel length for effective heat shrink sealing
 - Designed for outdoor terminations
- Solder sealed • Impervious to air at 140 kPa min



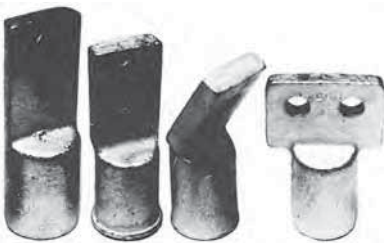
| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | STUD SIZE | DIMENSIONS (mm) | | | CRIMPING DIE | | |
|-----------|---------|--------------------------------|------------------|-----------|-----------------|------|----|--------------|--|--|
| | | | | | A | B | C | | | |
| SEG25M8 | H16011 | 25 | 7/2.14-19/1.35 | M8 | 14.7 | 19 | 29 | 38-77CU | | |
| SEG25M10 | H16012 | | | M10 | 16.7 | 19 | 29 | | | |
| SEG35M8 | H16014 | 35 | 19/1.53 | M8 | 18.2 | 19 | 35 | 38-92CU | | |
| SEG35M10 | H16015 | | | M10 | 18.2 | 19 | 35 | | | |
| SEG35M12 | H16016 | | | M12 | 20.0 | 24.5 | 35 | | | |
| SEG50M10 | H16018 | 50 | 19/1.78 | M10 | 19.0 | 27 | 38 | 38-104CU | | |
| SEG50M12 | H16019 | | | M12 | 20.6 | 27 | 38 | | | |
| SEG70M10 | H16021 | 70 | 19/2.14 | M10 | 20.6 | 27 | 43 | 38-115CU | | |
| SEG70M12 | H16022 | | | M12 | 20.6 | 27 | 43 | | | |
| SEG95M10 | H16023 | 95 | 19/2.52 | M10 | 25.4 | 27 | 53 | 38-142CU | | |
| SEG95M12 | H16024 | | | M12 | 25.4 | 27 | 53 | | | |
| SEG120M10 | H16026 | 120 | 37/2.03 | M10 | 30.0 | 31.8 | 62 | 38/40-165CU | | |
| SEG120M12 | H16027 | | | M12 | 30.0 | 31.8 | 62 | | | |
| SEG120M16 | H16028 | | | M16 | 30.0 | 31.8 | 62 | | | |
| SEG150M12 | H16029 | 150 | 37/2.25 | M12 | 33.5 | 41.3 | 67 | 3/40-183CU | | |
| SEG150M16 | H16030 | | | M16 | 33.5 | 41.3 | 67 | | | |
| SEG185M12 | H16032 | 185 | 37/2.52 | M12 | 36.5 | 41.3 | 77 | 38/40-200CU | | |
| SEG185M16 | H16033 | | | M16 | 36.5 | 41.3 | 77 | | | |
| SEG240MB | H16035 | 240 | 61/2.25 | MB | 41.6 | 54 | 86 | 38/40-231CU | | |
| SEG240M12 | H16036 | | | M12 | 41.6 | 54 | 86 | | | |
| SEG300MB | H16038 | 300 | 61/2.52 | MB | 46.0 | 54 | 95 | 38/40-260CU | | |
| SEG300M16 | H16039 | | | M16 | 46.0 | 54 | 95 | | | |
| SEG400MB | H16041 | 400 | 61/2.85 | MB | 49.6 | 54 | 98 | 40/66-281CU | | |
| SEG400M16 | H16042 | | | M16 | 49.6 | 54 | 98 | | | |
| SEG500MB | H16044 | 500 | 61/3.20 | MB | 54.8 | 54 | 98 | 40/66-310CU | | |
| SEG500M20 | H16045 | | | M20 | 54.8 | 54 | 98 | | | |
| SEG630MB | H16047 | | | MB | 63.5 | 54 | 98 | | | |
| SEG630M20 | H16048 | 630 | 127/2.52 | M20 | 63.5 | 54 | 98 | 40-370 | | |

LONG PALM LONG BARREL COPPER CRIMP LUGS

- Long barrel length for effective heat shrink sealing
 - No inspection window
- Uses same crimp tools as standard copper lugs


1

| DESCRIPT. P/N | CONDUCTOR AREA mm ² | C | D | DIMENSIONS mm | | | L | CRIMPING DIE |
|------------------|-----------------------------------|----|------|---------------|----|-----|---|-----------------|
| CG16LPMB | 16 | 13 | 1.9 | 70 | 40 | 114 | | 38-63CU |
| CG25LPMB | 25 | 17 | 1.9 | 70 | 40 | 115 | | 38-77CU |
| CG35LPMB | 35 | 18 | 2.7 | 90 | 45 | 140 | | 38-92CU |
| CG50LPMB | 50 | 21 | 2.8 | 100 | 50 | 160 | | 38-104CU |
| CG70LPMB | 70 | 21 | 3.2 | 100 | 50 | 160 | | 38-115CU |
| CG95LPMB | 95 | 25 | 4.0 | 100 | 50 | 160 | | 38-142CU |
| CG120LPMB | 120 | 30 | 4.8 | 100 | 50 | 160 | | 38-165CU |
| CG150LPMB | 150 | 34 | 5.4 | 100 | 50 | 170 | | 38-183CU |
| CG185LPMB | 185 | 37 | 5.4 | 100 | 55 | 170 | | 38-200CU |
| CG240LPMB | 240 | 42 | 7.1 | 110 | 90 | 190 | | 38-231CU |
| CG300LPMB | 300 | 46 | 7.9 | 110 | 90 | 190 | | 40-260CU |
| CG400LPMB | 400 | 50 | 7.9 | 110 | 70 | 210 | | 40-281CU |
| CG500LPMB | 500 | 55 | 8.2 | 110 | 70 | 210 | | 40-310CU |
| CG630LPMB | 630 | 64 | 11.5 | 100 | 70 | 205 | | 40-370CU |



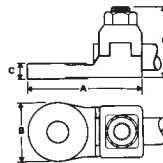
CAST LUGS

- Made to custom requirements
- Made to approved order, quantities only
- Copper alloy, however can be made in other materials
- Type of applications; – diesel electric loco
 - transformers – special application



BOLTED CABLE LUG

- Quick and easy termination
- Re-usable
- Palms are machined flat and parallel for maximum conductivity
- Copper alloy



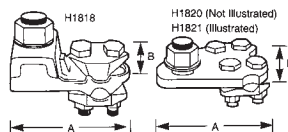
| DESCRIPT. | CAT NO. | GENERIC CODE | CONDUCTOR AREA mm ² | NON FLEXIBLE CONDUCTOR | STUD SIZE | DIMENSIONS mm | | | |
|-------------|-----------------|--------------|--------------------------------|----------------------------|------------|---------------|----|------|----|
| | | | | | | A | B | C | G |
| BG1 | H1801 | NO. 1 | 4-10 | 7/.085 7/1.04 7/1.35 | M6 | 34 | 14 | 5.5 | 17 |
| BG2 | H1802 | NO. 2 | 16 | 7/1.70 | M8 | 44 | 19 | 5.5 | 23 |
| BG3 BG3A | H1803 H1803A | NO. 3 | 25-35 | 7/2.14 19/1.53 | M10 M12 | 53 | 25 | 5.5 | 27 |
| BG4 | H1804 | NO. 4 | 50-70 | 19/1.78 19/2.14 | M12 | 60 | 32 | 6.4 | 34 |
| BG4C* | H1804C | NO. 4C | 50-70 | 19/1.78 19/2.14 | M12 | 60 | 32 | 6.4 | 34 |
| BG5 | H1805 | NO. 5 | 95 | 37/1.78 | M12 | 65 | 32 | 7.9 | 38 |
| BG6A | H1806A | NO. 6 | 120 | 37/2.03 | M16 | 76 | 38 | 8.7 | 45 |
| BG6 | H1806 | NO. 6 | 150-185 | 37/2.25 37/2.52 | M16 | 76 | 38 | 8.7 | 45 |
| BG7 | H1807 | NO. 7 | 185-240 | 61/2.25 | M20 | 86 | 44 | 10.3 | 53 |
| BG8 | H1808 | NO. 8 | 300-400 | 61/2.52 61/2.85 | M20 | 98 | 51 | 12.7 | 63 |
| BG9 | H1809 | NO. 9 | 500 | 61/3.20 | M20 | 100 | 48 | 13.5 | 70 |

*C = Slot 12mm wide instead of bolt hole



BOLTED TEE CLAMP

- Provide quick and easy tee offs
- Copper alloy
- H1820 and H1821 can be used with slotted palm lugs for easy disconnect facility



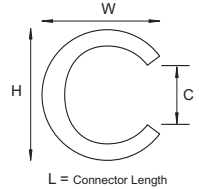
| DESCRIPT. | CAT NO. | MAIN CABLE RANGE | | TEE CABLE RANGE | | DIMENSIONS | |
|-----------|---------|--------------------|--------------------|-------------------|-------------------|------------|----|
| | | MIN | MAX | MIN | MAX | A | B |
| TG185240 | H1818 | 185mm ² | 240mm ² | 70mm ² | 95mm ² | 81 | 33 |
| TG5070 | H1820 | 50mm ² | 70mm ² | - | - | 79 | 32 |
| TG7095 | H1821 | 70mm ² | 95mm ² | - | - | 87 | 70 |

'C' CONNECTORS



C-Connectors are manufactured in 'C' shaped copper section for connection of main and tap copper conductors.

- Reliability is ensured by passing tests specified by JIS C 2810
- Suitable for connecting copper conductors in both indoor and outdoor applications such as earth grid connections
- Tin plated • Other sizes available on request (366-700mm²)


1

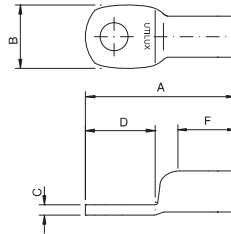
| DESCRPT. | CAT NO. | CONDUCTOR RANGE mm ² | H | DIMENSIONS W | L | C | Die Part No. | INSULATING COVER |
|----------|---------|---------------------------------|----|--------------|----|----|--------------|------------------|
| CC10 | T-011 | 7.5 to 11 | 9 | 6 | 12 | 4 | #18C | - |
| CC16 | T-016 | 11.5 to 16 | 12 | 8 | 13 | 5 | #18C | - |
| CC20 | T-020 | 14 to 20 | 13 | 10 | 13 | 5 | 38-T020 | T-020C |
| CC25 | T-026 | 21 to 26 | 15 | 11 | 16 | 6 | 38-T026 | T-026C |
| CC35 | T-044 | 27 to 44 | 19 | 14 | 20 | 8 | 38-T044 | T-044C |
| CC50 | T-060 | 45 to 60 | 21 | 15 | 22 | 10 | 38-T060 | T-060C |
| CC70 | T-076 | 61 to 76 | 24 | 17 | 22 | 11 | 38-T076 | T-076C |
| CC95 | T-098 | 77 to 98 | 28 | 19 | 25 | 14 | 38-T098 | T-098C |
| CC120 | T-122 | 99 to 122 | 30 | 21 | 26 | 13 | 38-T122 | T-122C |
| CC150 | T-154 | 123 to 154 | 34 | 24 | 28 | 17 | 38-T154 | T-154C |
| CC185 | T-190 | 155 to 190 | 37 | 25 | 35 | 17 | 38-T190 | T-190C |
| CC240 | T-240 | 191 to 240 | 40 | 28 | 40 | 19 | 38-T240 | T-240C |
| CC300 | T-288 | 241 to 288 | 45 | 31 | 45 | 22 | 38-T288 | T-288C |
| CC400 | T-365 | 289 to 365 | 48 | 34 | 50 | 24 | 38-T365 | T-365C |

| | | CONDUCTOR TAP mm² | | | | | | | | | | | | | | | | |
|-----------------------|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 2.5 | 4 | 6 | 10 | 16 | 20 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| MAIN CONDUCTOR mm² | 6 | 11 | 11 | 16 | | | | | | | | | | | | | | |
| | 10 | 16 | 16 | 16 | | | | | | | | | | | | | | |
| | 16 | 20 | 20 | 26 | 26 | 44 | | | | | | | | | | | | |
| | 20 | 26 | 26 | 26 | 44 | 44 | 44 | | | | | | | | | | | |
| | 25 | 44 | 44 | 44 | 44 | 44 | 60 | 60 | | | | | | | | | | |
| | 35 | 44 | 44 | 44 | 60 | 60 | 60 | 60 | 76 | | | | | | | | | |
| | 50 | 60 | 60 | 60 | 60 | 76 | 76 | 76 | 98 | 122 | | | | | | | | |
| | 70 | 76 | 76 | 76 | 98 | 98 | 98 | 98 | 122 | 122 | 154 | | | | | | | |
| | 95 | 98 | 122 | 122 | 122 | 122 | 122 | 122 | 154 | 154 | 190 | 190 | | | | | | |
| | 120 | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 190 | 190 | 190 | 240 | 240 | | | | | |
| | 150 | 154 | 154 | 190 | 190 | 190 | 190 | 190 | 190 | 240 | 240 | 288 | 288 | 365 | | | | |
| | 185 | 190 | 190 | 240 | 240 | 240 | 240 | 240 | 240 | 288 | 288 | 365 | 365 | 450 | | | | |
| | 240 | | | 288 | 288 | 288 | 288 | 288 | 288 | 365 | 365 | 365 | 365 | 450 | 450 | 560 | | |
| 300 | | | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 450 | 450 | 450 | 450 | 560 | 560 | 700 | | |
| 400 | | | | | | | | 450 | 450 | 560 | 560 | 560 | 560 | 700 | 700 | 700 | | |
| 500 | | | | | | | | 560 | 560 | 700 | 700 | 700 | 700 | 700 | | | | |
| 630 | | | | | | | | 700 | 700 | 700 | | | | | | | | |

SOLID PALM COPPER LUGS



Utilux have introduced a range of small copper lugs to be used in heavy industry. The range of connectors (6sqmm to 35sqmm) compliments the existing larger size copper cast lugs. The lugs are fabricated from copper rod to maximise the strength. They are made without a seam in the palm, with an increased wall thickness and electro-tinned plated. The solid palm also eliminates the ingress of moisture which makes them suitable for outdoor use. Crimping has been rationalised so that only two (2) sets of dies are required to terminate the full range of lugs.



TYPICAL APPLICATIONS

- Overhead connections for electrical distribution systems
- Railway electrification systems where vibration is a concern
- Other sizes available on request

| CAT NO. | CONDUCTOR AREA mm ² | BOLT SIZE | A | B | C | D | F | CRIMPING DIE |
|-----------|--------------------------------|-----------|----|----|-----|----|----|--------------|
| CG6SDM6 | 6 | M6 | 51 | 16 | 4.2 | 21 | 23 | 38-77CU |
| CG6SDM8 | | M8 | 51 | 16 | 4.2 | 21 | 23 | |
| CG6SDM10 | | M10 | 51 | 16 | 4.2 | 21 | 23 | |
| CG10SDM6 | 10 | M6 | 51 | 16 | 4.2 | 21 | 23 | |
| CG10SDM8 | | M8 | 51 | 16 | 4.2 | 21 | 23 | |
| CG10SDM10 | | M10 | 51 | 16 | 4.2 | 21 | 23 | |
| CG16SDM8 | 16 | M8 | 70 | 21 | 6.0 | 27 | 30 | 38-104CU |
| CG16SDM10 | | M10 | 70 | 21 | 6.0 | 27 | 30 | |
| CG16SDM12 | | M12 | 70 | 21 | 6.0 | 27 | 30 | |
| CG25SDM10 | 25 | M10 | 70 | 21 | 6.0 | 27 | 30 | |
| CG25SDM12 | | M12 | 70 | 21 | 6.0 | 27 | 30 | |
| CG35SDM10 | 35 | M10 | 70 | 21 | 6.0 | 27 | 30 | |
| CG35SDM12 | | M12 | 70 | 21 | 6.0 | 27 | 30 | |

SECTION 2












ALUMINIUM LUGS AND LINKS

Utilux Aluminium Lugs and Links are manufactured from high conductivity aluminium. The lugs are forged to maximise conductivity and strength and also eliminate any moisture seepage.

Sector lugs and links are manufactured from a high quality extruded aluminium. Markings are used to clearly identify the cable to be used, die combination and crimping sequence. Hexagonal crimping is generally recommended for lugs and links equal to or greater than 25mm².

Care should be taken in the preparation of aluminium conductors to ensure proper scratch brushing and inhibiting compound is applied.

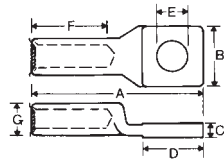
2

| LUGS | STYLE | CONDUCTOR RANGE mm ² | PAGE |
|--|---|---------------------------------|------|
|  | Unilug for Aluminium Cables | 6-800 | 16 |
|  | 3 & 4 Core Sector Lug | 120-240 | 18 |
|  | Round Barrel Sector Lug | 185-240 | 18 |
|  | CCT Conductor Lug | 40 | 20 |
|  | Aluminium Rotating Lug | 185-240 | 21 |
| LINKS | STYLE | CONDUCTOR AREA | PAGE |
|  | Unilink Aluminium | 6-800mm ² | 17 |
|  | 3 & 4 Core Sector Link | 120-240mm ² | 19 |
|  | Sector to Round Link | 185-240 | 19 |
|  | CCT Conductor Link | 40mm ² | 20 |
| JOINTING COMPOUNDS | STYLE | COLOUR | PAGE |
|  | Conductive Compound with zinc particles | KD Grey | 17 |
|  | Conductive Compound | Honey Brown | 17 |

UNILUG FOR ALUMINIUM CABLES



- 99.9% pure high conductivity aluminium
 - Forged from solid AL billets
- Solid palm, therefore eliminating the ingress of moisture
 - Pre-filled with joining compound
- Individually packed in sealed plastic bags



| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | STUD SIZE E | A | B | C | D | F | G | CRIMPING DIE |
|---|--------------------------------------|-----------------------------------|---------------------|-------------------------|-----|----|----|----|----|------|----------------------|
| AG6MB AG6M6 | H15100 H15101 | 6 | 7/1.04 | MB M6 | 54 | 18 | 5 | 22 | 32 | 3.5 | 38-90AL |
| AG10MB AG10M6 | H15103 H15104 | 10 | 7/1.35 | MB M6 | 65 | 22 | 5 | 22 | 32 | 4.5 | |
| AG16MB AG16M10 | H15106 H15109 | 16 | 7/1.70 | MB M10 | 65 | 22 | 5 | 22 | 32 | 5.5 | |
| AG25MB AG25M10 | H15111 H15114 | 25 | 7/2.14 19/1.35 | MB M10 | 65 | 22 | 5 | 22 | 32 | 7.0 | |
| AG35MB AG35M10 | H15116 H15119 | 35 | 19/1.53 | MB M10 | 65 | 22 | 5 | 22 | 32 | 8.5 | |
| AG50MB AG50M10 | H15121 H15124 | 50 | 19/1.78 | MB M10 | 73 | 26 | 8 | 28 | 32 | 9.5 | |
| AG70MB AG70M10 AG70M12 | H15126 H15129 H15130 | 70 | 19/2.14 | MB M10 M12 | 73 | 26 | 8 | 28 | 32 | 11.0 | 38-132AL |
| AG95MB AG95M10 AG95M12 | H15131 H15134 H15135 | 95 | 19/2.52 37/1.78 | MB M10 M12 | 80 | 30 | 10 | 35 | 32 | 13.0 | 38-173AL 40-172AL |
| AG120MB AG120M10 AG120M12 | H15136 H15138 H15139 | 120 | 37/2.03 | MB M10 M12 | 80 | 30 | 10 | 35 | 32 | 15.0 | |
| AG150MB AG150M10 AG150M12 AG150M16 | H15141 H15142 H15143 H15144 | 150 | 37/2.25 | MB M10 M12 M16 | 90 | 36 | 11 | 36 | 30 | 16.5 | 38-220AL 40-220AL |
| AG185MB AG185M12 AG185M16 | H15146 H15147 H15148 | 185 | 37/2.52 | MB M12 M16 | 90 | 36 | 11 | 36 | 30 | 18.5 | |
| AG240MB AG240M12 AG240M16 | H15151 H15153 H15154 | 240 | 61/2.25 | MB M12 M16 | 115 | 46 | 12 | 50 | 41 | 21.0 | 38-284AL 40-283AL |
| AG300MB AG300M12 AG300M16 | H15156 H15159 H15160 | 300 | 61/2.52 | MB M12 M16 | 115 | 46 | 12 | 50 | 41 | 23.5 | |
| AG400MB AG400M12 AG400M16 | H15162 H15165 H15166 | 400 | 61/2.85 | MB M12 MB | 150 | 54 | 15 | 54 | 68 | 26.5 | 40-390AL |
| AG500MB AG500M12 AG500M16 | H15168 H15171 H15172 | 500 | 61/3.20 | MB M12 M16 | 150 | 54 | 15 | 54 | 68 | 29.5 | |
| AG630MB AG630M16 | H15174 H15176 | 630 | 127/2.52 | MB M16 | 159 | 60 | 15 | 60 | 68 | 33.5 | 40-432AL |

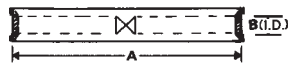
Stud size "MB" means blank palm.

800-1000mm² tube Aluminium Crimp Lugs made to approved minimum order quantities only.



UNILINK ALUMINIUM

- Solid barrier
- High conductivity Aluminium
- Prefilled with jointing compound
- Individually packed in sealed plastic bags



| DESCRIPT. | CAT NO. | CONDUCTOR AREA (mm ²) | STRANDING METRIC | DIMENSIONS A (mm) B (mm) | | CRIMPING DIE |
|-----------|---------|-----------------------------------|-------------------|-----------------------------|------|----------------------|
| AK6 | H15200 | 6 | 7/1.04 | 70 | 3.5 | 38-90AL |
| AK10 | H15201 | 10 | 7/1.35 | 70 | 4.5 | |
| AK16 | H15202 | 16 | 7/1.70 | 70 | 5.5 | |
| AK25 | H15203 | 25 | 7/2.14 - 19/1.35 | 70 | 7.0 | |
| AK35 | H15204 | 35 | 19/1.53 | 70 | 8.5 | |
| AK50 | H15205 | 50 | 19/1.78 | 70 | 9.5 | 38-132AL |
| AK70 | H15206 | 70 | 19/2.14 | 70 | 11.0 | |
| AK95 | H15207 | 95 | 19/2.52 - 37/1.78 | 124 | 13.0 | 38-173AL 40-172AL |
| AK120 | H15208 | 120 | 37/2.03 | 124 | 15.0 | |
| AK150 | H15209 | 150 | 37/2.25 | 124 | 16.5 | 38-220AL 40-220AL |
| AK185 | H15210 | 185 | 37/2.52 | 124 | 18.5 | |
| AK240 | H15211 | 240 | 61/2.25 | 124 | 21.0 | 38-284AL 40-283AL |
| AK300 | H15212 | 300 | 61/2.52 | 124 | 23.5 | |
| AK400 | H15213 | 400 | 61/2.85 | 146 | 26.5 | 40-390AL |
| AK500 | H15214 | 500 | 61/3.20 | 146 | 29.5 | |
| AK630 | H15215 | 630 | 127/2.52 | 146 | 33.5 | 40-432AL |
| AK800 | H15216 | 800 | 127/2.85 | 260 | 38.5 | |

Larger sizes available, subject to approved quantities.



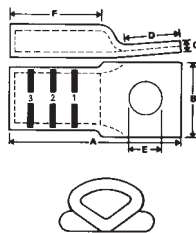
ELECTRICAL JOINTING COMPOUND

- Recommended for Aluminium connections
- Zinc particles in H2397 penetrates oxide films that form on the Aluminium surface
 - Seals out air and moisture, therefore minimising oxidation or corrosion and maximising conductivity
 - High melt point grease

| CAT NO. | NO. | APPLICATION | PART | COLOUR | TUBE SIZE |
|---------|-----|---|------|---------|-----------|
| H2397 | 4C | Conductive compound with zinc particles | Zn | KD Grey | 250g |

3 & 4 CORE SECTOR LUG

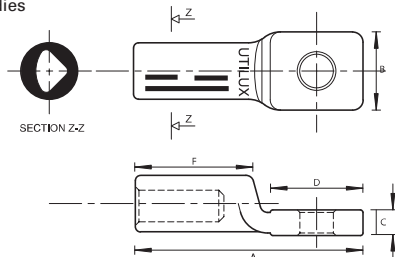
- Clear markings on barrel to indicate correct crimping sequence
- Prefilled with jointing compound
- Supplied with flat washers
 - Suit 3 core 120° or 4 core 90° solid sector aluminium conductor
- 99.9% pure, high conductivity Aluminium
- Individually packed in sealed plastic bags



| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | STUD SIZE E | A | B | C | D | F | TOOL NO. | NEST | DIES INDENT |
|---------------|---------|--------------------------------|-------------|-------|----|------|------|------|----------|------|-------------|
| 3 CORE | | | | | | | | | | | |
| AGS120M12 | H8610 | 120 | M12 | 100 | 31 | 6.9 | 33.5 | 51 | 38A | 12 | 16 |
| AGS150M12 | H8611 | 150 | M12 | 103 | 35 | 7.3 | 33.5 | 51 | 38A | 12 | 17 |
| AGS185M12 | H8613 | 185 | M12 | 115 | 38 | 7.3 | 37.3 | 59 | 38A | 12 | 18 |
| AGS240M12 | H8615 | 240 | M12 | 123 | 42 | 8.7 | 37.3 | 63 | 38A | 12 | 19 |
| AGS240M16 | H8616 | 240 | M16 | 123 | 42 | 8.7 | 37.3 | 63 | 38A | 12 | 19 |
| 4 CORE | | | | | | | | | | | |
| AGI120MB | H8889 | 120 | MB | 101.6 | 32 | 6.7 | 34.9 | 53.9 | 38A | 14 | 16 |
| AGI150MB | H8890 | 150 | MB | 110.3 | 35 | 7.1 | 34.9 | 59.5 | 38A | 14 | 17 |
| AGI185MB | H8891 | 185 | MB | 115.0 | 40 | 8.3 | 38.1 | 59.5 | 38A | 14 | 18 |
| AGI240MB | H8892 | 240 | MB | 127.8 | 46 | 11.7 | 44.4 | 62.6 | 38A | 15 | 19 |

ROUND BARREL SECTOR

- 99.9% pure high conductivity aluminium
- Forged from solid AL billets
- Solid palm, therefore eliminating the ingress of moisture
- Pre-filled with jointing compound
- Individually packed in sealed plastic bags
- Hexcrimp with std Utilux dies



| DESCRIPT. | CAT NO. | A | B | C | D | F | AL. HEX Ø38 TOOL | AL. DIE Ø40 TOOL |
|------------|---------|-----|----|----|----|----|---------------------|---------------------|
| AG4H185M12 | H50804 | 115 | 36 | 11 | 36 | 62 | 38-220AL | 40-220AL |
| AG4H240M12 | H50805 | 133 | 36 | 12 | 36 | 62 | 38-284AL | 40-283AL |

3 & 4 CORE SECTOR LINK



- Clear markings on barrel to indicate correct crimping sequence
 - Prefilled with jointing compound
- Suit 3 core 120° or 4 core 90° solid sector aluminium conductor
- 99.9% pure, high conductivity aluminium
- Individually packed in sealed plastic bags



| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | mm A | TOOL NO. | NEST | DIES INDENT |
|---------------|---------|-----------------------------------|---------|-------------|------|----------------|
| 3 CORE | | | | | | |
| AKS120 | H8627 | 120 | 90 | 38A | 12 | 16 |
| AKS150 | H8628 | 150 | 90 | 38A | 12 | 17 |
| AKS185 | H8629 | 185 | 105 | 38A | 12 | 18 |
| AKS240 | H8630 | 240 | 110 | 38A | 12 | 19 |
| 4 CORE | | | | | | |
| AKI120 | H8949 | 120 | 88.9 | 38A | 14 | 16 |
| AKI150 | H8950 | 150 | 104.8 | 38A | 14 | 17 |
| AKI185 | H8951 | 185 | 104.8 | 38A | 14 | 18 |
| AKI240 | H8952 | 240 | 114.3 | 38A | 15 | 19 |

SECTOR TO ROUND LINK



- Clear markings on barrel to indicate correct crimping sequence
 - Prefilled with jointing compound
- Suit 3 core 120° or 4 core 90° solid sector aluminium conductor
- 99.9% pure, high conductivity aluminium
- Individually packed in sealed plastic bags

| DESCRIPT. P/N | CONDUCTOR | | OVERALL LENGTH | ROUND END HEXCRIMP DIE | SECTOR CRIMP | |
|------------------|------------------------|-----------------------|-------------------|---------------------------|--------------|------------|
| | SECTOR mm ² | ROUND mm ² | | | NEST DIE | INDENT DIE |
| 3 CORE | | | | | | |
| AK3I185240 | 185 | 240 | 150 | 38-284AL | #12 NEST | #18 INDENT |
| AK3I240300 | 240 | 300 | 150 | 38-284AL | #15 NEST | #20 INDENT |
| 4 CORE | | | | | | |
| AK4I240300 | 240 | 300 | 153 | 38-284AL | #15 NEST | #20 INDENT |

CCT CONDUCTOR



The new aluminium lugs & links are designed for use with 7/2.75 (40mmsq) Aluminium CCT conductor.

The lug is primarily used on dropper cables for pole mounted substations.

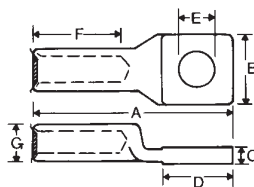
An aluminium link is also provided for in line connections.

The lug and link are manufactured from 99.9% pure high conductivity aluminium.

They are forged to maximise conductivity and strength.

The solid palm also eliminates the ingress of moisture whilst the plating gives added protection for outdoor use.

The lug and link are pre-filled with jointing compound, ink stamped with catalogue number and crimping details and individually packed in sealed plastic bags.



| CAT NO. | CONDUCTOR SIZE | DIMENSIONS mm | | | | | | | CRIMPING DIE |
|---------------|-----------------|---------------|-----|-----|-----|-----|-----|--|--------------|
| | | A | B | C | D | E | F | | |
| LUG AG40M10ET | 7/2.75 (40mmSQ) | 73 | 26 | 8 | 28 | M12 | 32 | | 38-132AL |
| LUG AG40M12ET | 7/2.75 (40mmSQ) | 70 | 26 | 8 | 28 | M12 | 32 | | 38-132AL |
| LINK AK40ET | 7/2.75 (40mmSQ) | 70 | N/A | N/A | N/A | N/A | N/A | | 38-132AL |

A NEW SOLUTION FOR CONNECTING UNDERGROUND ALUMINIUM CABLES

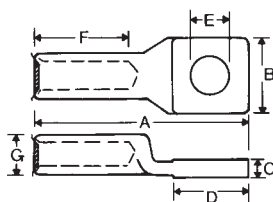


This new range of connectors for aluminium 4 core sector cable features a unique concept enabling the lug to be rotated to any desired position on the conductor, without the need to round the conductor first. The design embodies the tried and proven round barrel/hex compression die combination, giving superior connection reliability.

BENEFITS: • The lug can be rotated to any desired position

• No need to twist conductor to correct orientation

- Minimum effort required to correctly orientate lug
- Reduces total connection time
- Suits solid and stranded conductor types
- Uses standard size hexagonal dies
- No need to round the sector cable first
- Bi-metal versions available
- No voids when crimped
- Takes two crimps on the barrel without overlapping
- Palm will fit into most receptacles found in URD system
- Supplied pre-packed with jointing compound, in sealed plastic bags
- The lug barrel has markings showing the length of insulation to be stripped
- Made from high conductivity, high strength, solid forged aluminium
- Tested to BS4579



ALUMINIUM ROTATING LUGS

| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | A | F | DIMENSIONS mm | | | | STUD E | CRIMPING DIE |
|-------------|---------|--------------------------------|-----|----|---------------|----|----|----|--------|--------------|
| | | | | | OD | B | C | D | | |
| AG4HR240MB | H15356 | 240 | 112 | 50 | 34 | 36 | 12 | 50 | MB | 38-284AL |
| AG4HR240M12 | H15357 | 240 | 112 | 50 | 34 | 36 | 12 | 50 | M12 | |
| AG4HR240M16 | H15358 | 240 | 112 | 50 | 34 | 36 | 12 | 50 | M16 | |

Utilux Custom Connectors

48 HOURS



- ✓ **Ordered**
 - using UCC request form
- ✓ **Manufactured**
 - to your specification
- ✓ **Dispatched**
 - sent express

Applicable to non-catalogue items only.
Lead time subject to prompt customer sign off.








TE ENERGY
connectivity

SECTION 3

BI-METAL LUGS AND LINKS

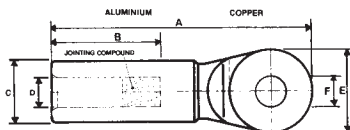
Copper to aluminium terminations can be made with the Utilux range of Bi-Metal products. Under normal conditions, when copper comes into contact with aluminium electrolytic corrosion may result, enhanced by the presence of oxygen. Utilux Bi-metal lugs have the copper friction welded to the aluminium. The friction welding process eliminates the presence of oxygen and therefore eliminates electrolytic corrosion. The welding process also maximises the strength of the joint.

The Bi-metal range includes lugs and links for both round and sector conductor. Included in the range are links for joining different sized aluminium conductor to copper conductor.

| LUGS | STYLE | CONDUCTOR AREA | PAGE |
|---|----------------------------------|------------------------------|------|
|  | Bi-Metal Crimp Lug | 16-800mm ² | 24 |
|  | 3 & 4 Core Sector Bi-Metal Lug | 120-300mm ² | 26 |
|  | Bi-Metal Rotating Lug | 185-240mm ² | 29 |
| | Bi-Metal Long Palm Lug | 240-800mm ² | 30 |
| | Bi-Metal Reverse Lug | 25-120mm ² | 30 |
| STALK LUGS | STYLE | CONDUCTOR AREA | PAGE |
|  | Bi-Metal Crimp Stalk Lug | 16-630mm ² | 28 |
|  | 3 & 4 Core Sector Bi-Metal Stalk | 70-300mm ² | 28 |
| LINKS | STYLE | CONDUCTOR AREA | PAGE |
|  | Bi-Metal Crimp Link | 16/10-630/630mm ² | 25 |
|  | 3 & 4 Core Sector Bi-Metal Link | 70-300mm ² | 27 |
| | Bi-Metal Rotating Link | 185-240mm ² | 29 |

BI-METAL CRIMP LUG

- For aluminium to copper terminations • Friction welded
 - Manufactured from high purity copper and aluminium rod
 - Stepped barrel OD sizes across all bi-metal allows rationalisation of die inventory
 - Pre-filled with jointing compound • Individually packed in sealed plastic bags
 - Reverse bi-metal (aluminium palm, copper barrel)
- lugs are manufactured to approved order quantities
- Alternative sizes can be made to order for approved order quantities



| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | A | B | DIMENSIONS mm | C | D | E | STUD SIZE F | PALM THICK | CRIMPING DIE |
|---------------------------------|----------------------------|-----------------------------------|---------------------|-------|-------|---------------|------|------|---|------------------|---------------|----------------------|
| BG16MB BG16M10 | H15304 H15305 | 16 | 7/1.70 | 75.0 | 32.0 | 12.0 | 5.5 | 22.0 | | MB M10 | 4.5 | 38-90AL |
| BG25MB BG25M10 | H15306 H15307 | 25 | 19/1.35 | 75.0 | 32.0 | 12.0 | 7.0 | 22.0 | | MB M10 | 4.5 | |
| BG35MB BG35M10 BG35M12 | H15308 H15309 H15310 | 35 | 19/1.53 | 75.0 | 32.0 | 12.0 | 8.5 | 22.0 | | MB M10 M12 | 4.5 | |
| BG50MB BG50M10 BG50M12 | H15311 H15312 H15313 | 50 | 19/1.78 | 75.0 | 32.0 | 16.0 | 9.5 | 22.0 | | MB M10 M12 | 4.5 | |
| BG70MB BG70M10 BG70M12 | H15314 H15315 H15316 | 70 | 19/2.14 | 75.0 | 32.0 | 16.0 | 11.0 | 22.0 | | MB M10 M12 | 4.5 | 38-132AL |
| BG95MB BG95M10 BG95M12 | H15317 H15318 H15319 | 95 | 37/1.78 | 115.0 | 60.0 | 21.5 | 13.0 | 32.0 | | MB M10 M12 | 6.0 | |
| BG120MB BG120M12 BG120M16 | H15320 H15321 H15322 | 120 | 37/2.03 | 115.0 | 60.0 | 21.5 | 15.0 | 32.0 | | MB M12 M16 | 6.0 | 38-173AL 40-172AL |
| BG150MB BG150M12 BG150M16 | H15323 H15324 H15325 | 150 | 37/2.25 | 120.0 | 60.0 | 27.0 | 16.5 | 36.0 | | MB M12 M16 | 7.0 | |
| BG185MB BG185M12 BG185M16 | H15326 H15327 H15328 | 185 | 37/2.52 | 120.0 | 60.0 | 27.0 | 18.5 | 36.0 | | MB M12 M16 | 7.0 | 38-220AL 40-220AL |
| BG240MB BG240M12 BG240M16 | H15329 H15330 H15331 | 240 | 61/2.25 | 130.0 | 60.0 | 35.0 | 21.0 | 42.0 | | MB M12 M16 | 7.0 | |
| BG300MB BG300M12 | H15332 H15333 | 300 | 61/2.52 | 130.0 | 60.0 | 35.0 | 23.5 | 42.0 | | MB M12 | 7.0 | |
| BG400MB | *H15334 | 400 | 61/2.85 | 160.0 | 70.0 | 47.0 | 26.5 | 50.0 | | MB | 10.0 | 38-284AL 40-283AL |
| BG500MB | *H15335 | 500 | 61/3.20 | 160.0 | 70.0 | 47.0 | 29.5 | 50.0 | | MB | 10.0 | |
| BG630MB | *H15336 | 630 | 127/2.52 | 175.0 | 70.0 | 54.0 | 33.5 | 60.0 | | MB | 10.0 | 40-390AL |
| BG800MB | *H15337 | 800 | 127/2.85 | 221.0 | 115.0 | 54.0 | 39.0 | 60.0 | | MB | 10.0 | |
| | | | | | | | | | | | | 40-432AL |

*Square palms

BI-METAL CRIMP LINK

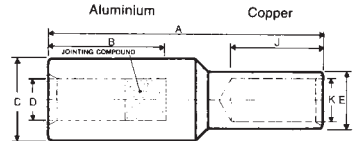
Suitable for aluminium to copper in line terminations

- Friction welded

- Manufactured for high purity copper and aluminium rod

- Prefilled with joint compound

- Individually packed in sealed plastic bags

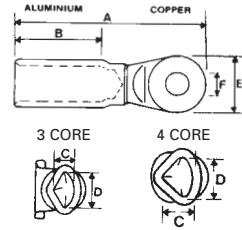


| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm² | STRANDING METRIC | ALUMINIUM | | | | CRIMPING DIE | COPPER | | | CRIMPING DIE |
|-----------|---------|-----------------------|---------------------|-----------|------|------|------|-----------------|--------|------|------|-----------------|
| | | | | A | B | C | D | | E | J | K | |
| BK16/10 | H15404 | 16/10 | 7/1.70-7/1.35 | 70.0 | 32.0 | 12.0 | 5.5 | 38-90AL | 11.5 | 21.5 | 4.5 | 38-92CU |
| BK16/16 | H15405 | 16/16 | 7/1.70-7/1.70 | | | | | | | | 5.5 | |
| BK25/16 | H15406 | 25/16 | 19/1.35-7/1.70 | 70.0 | 32.0 | 12.0 | 7.0 | 38-90AL | 11.5 | 21.5 | 5.5 | |
| BK25/25 | H15407 | 25/25 | 19/1.35-19/1.35 | | | | | | | | 7.0 | |
| BK35/25 | H15408 | 35/25 | 19/1.53-19/1.35 | 70.0 | 32.0 | 12.0 | 8.5 | 38-90AL | 11.5 | 21.5 | 7.0 | 38-92CU |
| BK35/35 | H15409 | 35/35 | 19/1.35-19/1.53 | | | | | | | | 8.5 | |
| BK50/35 | H15410 | 50/35 | 19/1.78-19/1.53 | 70.0 | 32.0 | 16.0 | 9.5 | 38-132AL | 11.5 | 21.5 | 8.5 | 38-115CU |
| BK50/50 | H15411 | 50/50 | 19/1.78-19/1.78 | | | | | | 14.5 | | 9.5 | |
| BK70/50 | H15412 | 70/50 | 19/2.14-19/1.78 | 70.0 | 32.0 | 16.0 | 11.0 | 38-132AL | 14.5 | 21.5 | 9.5 | 38-115CU |
| BK70/70 | H15413 | 70/70 | 19/2.14-19/2.14 | | | | | | | | 11.0 | |
| BK95/70 | H15414 | 95/70 | 37/1.78-19/2.14 | 110.0 | 60.0 | 21.5 | 13.0 | 38-173AL | 14.5 | 32.0 | 11.0 | 38-115CU |
| BK95/95 | H15415 | 95/95 | 37/1.78-37/1.78 | 120.0 | | | | 40-172AL | 20.5 | 40.0 | 13.0 | |
| BK120/95 | H15416 | 120/95 | 37/2.03-37/1.78 | 120.0 | 60.0 | 21.5 | 15.0 | 38-173AL | 14.5 | 32.0 | 11.0 | 38-165CU |
| BK120/120 | H15417 | 120/120 | 37/2.03-37/2.03 | | | | | 40-172AL | 20.5 | 40.0 | 13.0 | |
| BK150/120 | H15418 | 150/120 | 37/2.25-37/2.03 | 120.0 | 60.0 | 27.0 | 16.5 | 38/40-220AL | 20.5 | 40.0 | 15.0 | 38-165CU |
| BK150/150 | H15419 | 150/150 | 37/2.25-37/2.25 | | | | | | 24.5 | | 16.5 | |
| BK185/150 | H15420 | 185/150 | 37/2.52-37/2.25 | 120.0 | 60.0 | 27.0 | 18.5 | 38/40-220AL | 24.5 | 40.0 | 16.5 | 38-200CU |
| BK185/185 | H15421 | 185/185 | 37/2.52-37/2.52 | | | | | | | | 18.5 | |
| BK240/185 | H15422 | 240/185 | 61/2.25-37/2.52 | 122.0 | 60.0 | 35.0 | 21.0 | 38-284AL | 24.5 | 40.0 | 18.5 | 38-200CU |
| BK240/240 | H15423 | 240/240 | 61/2.25-61/2.25 | 125.0 | | | | 40-283AL | 32.0 | | 21.0 | |
| BK300/240 | H15424 | 300/240 | 61/2.52-61/2.25 | 125.0 | 60.0 | 35.0 | 23.5 | 38-284AL | 32.0 | 40.0 | 21.0 | 38-260CU |
| BK300/300 | H15425 | 300/300 | 61/2.52-61/2.52 | | | | | 40-283AL | | | 23.5 | |
| BK400/300 | H15426 | 400/300 | 61/2.85-61/2.52 | 153.0 | 70.0 | 47.0 | 26.5 | 40-390AL | 32.0 | 55.0 | 23.5 | 40-260CU |
| BK400/400 | H15427 | 400/400 | 61/2.85-61/2.85 | 155.0 | | | | | 38.5 | 58.0 | 26.5 | |
| BK500/400 | H15428 | 500/400 | 61/3.20-61/2.85 | 155.0 | 70.0 | 47.0 | 29.5 | 40-390AL | 38.5 | 58.0 | 26.5 | 40-310CU |
| BK500/500 | H15429 | 500/500 | 61/3.20-61/3.20 | | | | | | | | 29.5 | |
| BK630/500 | H15430 | 630/500 | 127/2.52-61/3.20 | 160.0 | 70.0 | 54.0 | 33.5 | 40-432AL | 38.5 | 58.0 | 29.5 | 40-310CU |
| BK630/630 | H15431 | 630/630 | 127/2.52-127/3.20 | | | | | | 45 | 60.0 | 33.5 | |

3 & 4 CORE SECTOR BI-METAL LUG - (solid only)



- Suitable for 3 or 4 core solid sector cable
- Clear markings on the barrel indicate the crimping sequence
 - Pre-filled with jointing compound
- Individually packed in sealed plastic bags
 - Friction welded
- For aluminium to copper termination and manufactured from high purity copper and aluminium rod

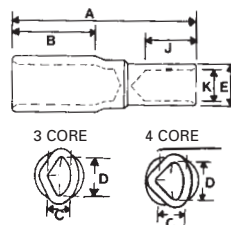


| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm² | A | B | DIMENSIONS C | mm D | E | STUD F | PALM THICK | 38A DIES NEST | INDENT |
|-----------|---------|-----------------------|-----|----|-----------------|---------|----|-----------|---------------|------------------|--------|
| 3 CORE | | | | | | | | | | | |
| BGS120MB | H15610 | 120 | 111 | 49 | 10.6 | 18.1 | 32 | MB | 6.0 | 12 | 16 |
| BGS120M12 | H15611 | | | | | | | M12 | | | |
| BGS150MB | H15612 | 150 | 116 | 49 | 11.8 | 20.1 | 36 | MB | 7.0 | 12 | 17 |
| BGS150M12 | H15613 | | | | | | | M12 | | | |
| BGS185MB | H15614 | 185 | 126 | 57 | 13.2 | 22.5 | 36 | MB | 7.0 | 12 | 18 |
| BGS185M12 | H15615 | | | | | | | M12 | | | |
| BGS240MB | H15616 | 240 | 138 | 61 | 15.2 | 25.8 | 42 | MB | 7.0 | 12 | 19 |
| BGS240M12 | H15619 | | | | | | | M12 | | | |
| BGS240M16 | H15617 | | | | | | | M16 | | | |
| BGS300MB | H15618 | 300 | 147 | 61 | 19.4 | 27.2 | 42 | MB | 7.0 | 12 | 21 |
| 4 CORE | | | | | | | | | | | |
| BGI120MB | H15660 | 120 | 111 | 49 | 12.1 | 17.1 | 32 | MB | 6.0 | 14 | 16 |
| BGI120M12 | H15661 | | | | | | | M10 | | | |
| BGI185MB | H15664 | 185 | 126 | 57 | 15.1 | 21.2 | 36 | MB | 7.0 | 14 | 18 |
| BGI185M12 | H15665 | | | | | | | M12 | | | |
| BGI240MB | H15666 | 240 | 136 | 61 | 17.5 | 24.6 | 42 | MB | 7.0 | 14 | 19 |
| BGI240M16 | H15667 | | | | | | | M16 | | | |
| BGI300MB | H15668 | 300 | 147 | 61 | 19.4 | 27.2 | 42 | MB | 7.0 | 15 | 21 |
| BGI300M16 | H15669 | | | | | | | M16 | | | |

3 & 4 CORE SECTOR BI-METAL LINK - (solid only)



- Suitable for 3 or 4 core solid sector cable
- Clear markings on the barrel indicate the crimping sequence
 - Pre-filled with jointing compound
- Individually packed in sealed plastic bags
 - Friction welded
- For aluminium to copper termination
- Manufactured from high purity copper and aluminium rod

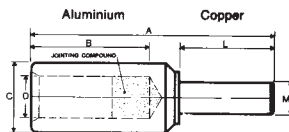


| | | ALUMINIUM | | | | | | | | | | | | COPPER | |
|------------|----------|-------------|---------|--------|-----------|------------|------|------|------|------|------|------|-----------|----------|-------------|
| DESCRPT. | CAT. NO. | CONDUCTOR | 38 DIES | | STRANDING | DIMENSIONS | | | | | | | CONDUCTOR | CRIMPING | |
| | | AREA mm² AL | NEST | INDENT | | METRIC | A | B | C | D | E | J | K | | AREA mm² CU |
| 3 CORE | | | | | | | | | | | | | | | |
| BKS120/70 | H15710 | 120 | 12 | 16 | 19/2.14 | 106.0 | 49.0 | 10.6 | 18.1 | 14.5 | 32.0 | 11.0 | 70 | 38-115CU | |
| BKS120/120 | H15711 | 120 | 12 | 16 | 37/2.03 | 116.0 | 49.0 | 10.6 | 18.1 | 20.5 | 40.0 | 15.0 | 120 | 38-165CU | |
| BKS150/95 | H15712 | 150 | 12 | 17 | 37/1.78 | 116.0 | 49.0 | 11.8 | 20.1 | 20.5 | 40.0 | 13.0 | 95 | 38-165CU | |
| BKS150/150 | H15713 | 150 | 12 | 17 | 37/2.25 | 116.0 | 49.0 | 11.8 | 20.1 | 24.5 | 40.0 | 16.5 | 150 | 38-200CU | |
| BKS185/120 | H15714 | 185 | 12 | 18 | 37/2.03 | 126.0 | 57.0 | 13.2 | 22.5 | 20.5 | 40.0 | 15.0 | 120 | 38-165CU | |
| BKS185/185 | H15715 | 185 | 12 | 18 | 37/2.52 | 126.0 | 57.0 | 13.2 | 22.5 | 24.5 | 40.0 | 18.5 | 185 | 38-200CU | |
| BKS240/150 | H15716 | 240 | 12 | 19 | 37/2.25 | 131.0 | 61.0 | 15.2 | 25.8 | 24.5 | 40.0 | 16.5 | 150 | 38-200CU | |
| BKS240/240 | H15717 | 240 | 12 | 19 | 61/2.25 | 134.0 | 61.0 | 15.2 | 25.8 | 32.0 | 40.0 | 21.0 | 240 | 38-260CU | |
| 4 CORE | | | | | | | | | | | | | | | |
| BKI70/50 | H15756 | 70 | 14 | 14 | 19/1.78 | 88 | 43 | 9.0 | 13.5 | 14.5 | 22 | 9.5 | 50 | 38-115CU | |
| BKI70/70 | H15757 | 70 | 14 | 14 | 19/2.14 | 88 | 43 | 9.0 | 13.5 | 14.5 | 22 | 11.0 | 70 | 38-115CU | |
| BKI95/70 | H15758 | 95 | 14 | 15 | 19/2.14 | 106 | 49 | 10.5 | 14.8 | 14.5 | 32 | 11.0 | 70 | 38-115CU | |
| BKI95/95 | H15759 | 95 | 14 | 15 | 37/1.78 | 116 | 49 | 10.5 | 14.8 | 20.5 | 40 | 13.0 | 95 | 38-165CU | |
| BKI120/70 | H15760 | 120 | 14 | 16 | 19/2.14 | 106 | 49 | 12.1 | 17.1 | 14.5 | 32 | 11.0 | 70 | 38-115CU | |
| BKI120/120 | H15761 | 120 | 14 | 16 | 37/2.03 | 116 | 49 | 12.1 | 17.1 | 20.5 | 40 | 15.0 | 120 | 38-165CU | |
| BKI150/95 | H15762 | 150 | 14 | 17 | 37/1.78 | 116 | 49 | 13.6 | 19.1 | 20.5 | 40 | 13.0 | 95 | 38-165CU | |
| BKI150/150 | H15763 | 150 | 14 | 17 | 37/2.25 | 116 | 49 | 13.6 | 19.1 | 24.5 | 40 | 16.5 | 150 | 38-200CU | |
| BKI185/120 | H15764 | 185 | 14 | 18 | 37/2.03 | 126 | 57 | 15.1 | 21.2 | 20.5 | 40 | 15.0 | 120 | 38-165CU | |
| BKI185/185 | H15765 | 185 | 14 | 18 | 37/2.52 | 126 | 57 | 15.1 | 21.2 | 24.5 | 40 | 18.5 | 185 | 38-200CU | |
| BKI240/150 | H15766 | 240 | 14 | 19 | 37/2.25 | 131 | 61 | 17.5 | 24.6 | 24.5 | 40 | 16.5 | 150 | 38-200CU | |
| BKI240/240 | H15767 | 240 | 14 | 19 | 61/2.25 | 134 | 61 | 17.5 | 24.6 | 32.0 | 40 | 21.0 | 240 | 38-260CU | |
| BKI300/185 | H15768 | 300 | 14 | 21 | 37/2.52 | 140 | 61 | 19.4 | 27.2 | 24.5 | 40 | 18.5 | 185 | 38-200CU | |
| BKI300/300 | H15769 | 300 | 14 | 21 | 61/2.52 | 143 | 61 | 19.4 | 27.2 | 32.0 | 40 | 23.5 | 300 | 38-260CU | |



BI-METAL CRIMP STALK LUG

- Suitable for aluminium to copper terminations
 - Friction welded
- Manufactured from high purity copper and aluminium
- Prefilled with jointing compound
- Individually packed in sealed plastic bags

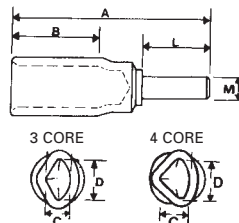


| DESCRIPT. | CAT. NO. | CONDUCTOR AREA mm ² | STRANDING METRIC | A | B | C | D | L | M | CRIMPING DIE |
|----------------------|------------------|--------------------------------|------------------|-----|----|------|------|----|----------|----------------------|
| BS16/12 | H15502 | 16 | 7/1.70 | 70 | 32 | 12 | 5.5 | 30 | 12 | 38-90AL |
| BS25/12 | H15503 | 25 | 19/1.35 | 70 | 32 | 12 | 7.0 | 30 | 12 | |
| BS35/12 | H15504 | 35 | 19/1.53 | 70 | 32 | 12 | 8.5 | 30 | 12 | |
| BS50/12 | H15505 | 50 | 19/1.78 | 70 | 32 | 16 | 9.5 | 30 | 12 | 38-132AL |
| BS70/12 | H15506 | 70 | 19/2.14 | 70 | 32 | 16 | 11.0 | 30 | 12 | 38-173AL 40-172AL |
| BS95/12 | H15507 | 95 | 37/1.78 | 110 | 60 | 21.5 | 13.0 | 38 | 12 | |
| BS120/12 BS120/14 | H15508 H15509 | 120 | 37/2.03 | 110 | 60 | 21.5 | 15.0 | 38 | 12 14 | |
| BS150/12 BS150/14 | H15510 H15511 | 150 | 37/2.25 | 120 | 60 | 27 | 16.5 | 48 | 12 14 | 38-220AL 40-220AL |
| BS185/16 BS185/18 | H15512 H15513 | 185 | 37/2.25 | 120 | 60 | 27 | 18.5 | 48 | 16 18 | |
| BS240/16 BS240/18 | H15514 H15515 | 240 | 61/2.25 | 122 | 60 | 35 | 21.0 | 48 | 16 18 | |
| BS300/16 BS300/18 | H15516 H15517 | 300 | 61/2.52 | 122 | 60 | 35 | 23.5 | 48 | 16 18 | 38-284AL 40-283AL |
| BS400/18 BS400/20 | H15518 H15519 | 400 | 61/2.85 | 153 | 70 | 47 | 26.5 | 65 | 18 20 | |
| BS500/18 BS500/20 | H15520 H15521 | 500 | 61/3.20 | 153 | 70 | 47 | 29.5 | 65 | 18 20 | |
| BS630/20 | H15522 | 630 | 127/2.52 | 160 | 70 | 54 | 33.5 | 70 | 20 | 40-432AL |

Alternative stalk sizes can be manufactured to approved minimum order quantities

3 & 4 CORE SECTOR BI-METAL STALK – (solid only)

- Suitable for 3 or 4 core solid sector cable
- Clear markings on the barrel indicate the crimping sequence
 - Prefilled with jointing compound
- Individually packed in sealed plastic bags
 - Friction welded
- For aluminium to copper terminations
- Manufactured from high purity copper and aluminium rod



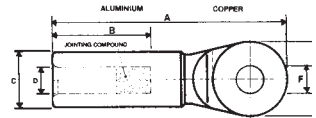
| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | A | B | C | D | L | M | 38A DIES NEST | INDENT |
|---------------|---------|--------------------------------|-----|----|------|------|------|------|---------------|--------|
| 3 CORE | | | | | | | | | | |
| BSS240/16 | H15816 | 240 | 134 | 61 | 15.2 | 25.8 | 48.0 | 16.0 | 12 | 19 |
| 4 CORE | | | | | | | | | | |
| BSI70/12 | H15856 | 70 | 88 | 43 | 9.0 | 12.5 | 30 | 12 | 14 | 14 |
| BSI95/12 | H15858 | 95 | 108 | 49 | 10.5 | 14.8 | 38 | 12 | 14 | 15 |
| BSI120/12 | H15860 | 120 | 118 | 49 | 12.1 | 17.1 | 48 | 12 | 14 | 16 |
| BSI150/12 | H15862 | 150 | 119 | 49 | 13.6 | 19.1 | 48 | 12 | 14 | 17 |
| BSI185/16 | H15864 | 185 | 129 | 57 | 15.1 | 21.2 | 48 | 16 | 14 | 18 |
| BSI240/16 | H15866 | 240 | 134 | 61 | 17.5 | 24.6 | 48 | 16 | 14 | 19 |
| BSI300/16 | H15868 | 300 | 143 | 61 | 19.4 | 27.2 | 48 | 16 | 14 | 21 |

ROTATING BI-METAL LUGS & LINK

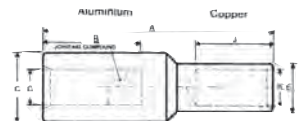
This new range of connectors for aluminium 4 core sector cable features a unique concept enabling the lug to be rotated to any desired position on the conductor, without the need to round the conductor first. The design embodies the tried and proven round barrel/hex compression die combination, giving superior connection reliability.

BENEFITS:

- The lug can be rotated to any desired position
 - No voids when crimped
- No need to twist conductor to correct orientation
- Takes two crimps on the barrel without overlapping
- Minimum effort required to correctly orientate lug
- Palm will fit into most receptacles found in URD system
 - Reduces total connection time
- Supplied pre-packed with jointing compound, in sealed plastic bags
 - Suits solid and standard conductor types
- The lug barrel has markings showing the length of insulation to be stripped
 - Uses standard size hexagonal dies
- Made from high conductivity, high strength, solid forged aluminium
 - No need to round the sector cable first
 - Tested to BS4579



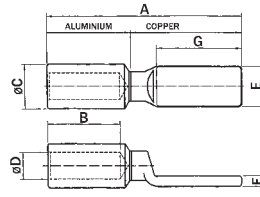
| DESCRIPT. | CAT NO. | CONDUCTOR AREA mm ² | DIMENSIONS mm | | | PALM THICK | STUD F | CRIMPING DIE |
|-------------|---------|-----------------------------------|---------------|----|----|---------------|-----------|-----------------|
| | | | A | B | E | | | |
| BG4HR240MB | H15365 | 240 | 126 | 50 | 42 | 7.0 | MB | 38-284AL |
| BG4HR240M12 | H15366 | 240 | 126 | 50 | 42 | 7.0 | M12 | 38-284AL |
| BG4HR240M16 | H15367 | 240 | 126 | 50 | 42 | 7.0 | M16 | 38-284AL |



| | | ALUMINIUM | | | COPPER | | | |
|-------------|--------------------------|---------------|----|-----------------|---------------|----|------|-----------------|
| DESCRIPT. | CONDUCTOR AREA mm² | DIMENSIONS mm | | CRIMPING DIE | DIMENSIONS mm | | | CRIMPING DIE |
| | | A | B | | E | J | K | |
| BK4HR240150 | 240 150 4 core sector | 110 | 50 | 38-284AL | 24.5 | 40 | 16.5 | 38-200CU |

BI-METAL LONG PALM LUGS

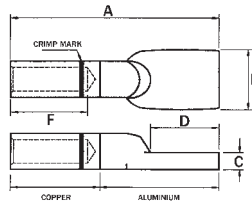
- For two bolt termination applications • Blank palm, 105mm long x 50mm wide
- Friction welded high purity aluminium and copper rod • Eliminates electrolytic corrosion
- Clearly marked with cable size, die recommendation and crimping position
- Individually packed in plastic bags • Palms can be drilled to customers bolt hole specification



| DESCRIPT. | CONDUCTOR AREA mm ² | A | B | C | D | E | F | G | CRIMPING DIE |
|-----------|--------------------------------|-----|-----|----|------|----|----|-----|--------------|
| BG240LPMB | 240 | 209 | 60 | 35 | 21 | 50 | 13 | 105 | 38-284AL |
| BG300LPMB | 300 | 209 | 60 | 35 | 23.5 | 50 | 13 | 105 | |
| BG400LPMB | 400 | 221 | 70 | 47 | 26.5 | 50 | 13 | 105 | 40-390AL |
| BG500LPMB | 500 | 221 | 70 | 47 | 29.5 | 50 | 13 | 105 | |
| BG630LPMB | 630 | 221 | 70 | 54 | 33.5 | 50 | 13 | 105 | 40-432AL |
| BG800LPMB | 800 | 266 | 105 | 54 | 39 | 50 | 13 | 105 | |

BI-METAL REVERSE LUGS

- Used for connection of copper conductor to aluminium terminal • Blank aluminium palm and copper barrel
- Friction welded high purity aluminium and copper rod • Eliminates electrolytic corrosion
- Clearly marked with crimping position









| DESCRIPT. | CONDUCTOR AREA mm ² | A | B | C | D | F | CRIMPING DIE |
|-----------|--------------------------------|-----|----|-----|----|----|--------------|
| BGRV25MB | 25 | 70 | 23 | 4.5 | 24 | 22 | 38-92CU |
| BGRV35MB | 35 | 70 | 23 | 4.5 | 24 | 22 | 38-92CU |
| BGRV50MB | 50 | 78 | 27 | 6.0 | 28 | 22 | 38-115CU |
| BGRV70MB | 70 | 78 | 27 | 6.0 | 28 | 22 | 38-115CU |
| BGRV95MB | 95 | 103 | 34 | 9.8 | 34 | 38 | 38-165CU |
| BGRV120MB | 120 | 103 | 34 | 9.8 | 34 | 38 | 38-165CU |

SECTION 4

UN- & PRE-INSULATED TERMINALS

TYPES INCLUDE: • **UTILUGS** – non insulated • **PRE-INSULATED UTILUGS** – Complete with PVC insulated barrel
• **SUPERGRIP UTILUGS** – Complete with additional copper over the barrel. For use in high vibration conditions.

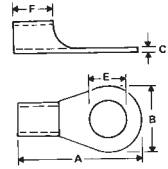
| RING TERMINALS | STYLE | STUD SIZE | PAGE |
|---|--|---------------|------|
|  | Uninsulated Utilug | M1.6-M20 | 32 |
|  | Preinsulated Utilug | M1.6-M18 | 33 |
|  | Preinsulated Supergrip | M1.6-M18 | 34 |
|  | High Temp Utilug | M4-M6 | 36 |
|  | Heavy Duty Preinsulated | M5-M6 | 37 |
| FORK TERMINALS | STYLE | STUD SIZE | PAGE |
|  | Uninsulated Utilug | M3-M6 | 35 |
|  | Preinsulated Utilug | M3-M6 | 36 |
|  | Preinsulated Supergrip | M3-M6 | 35 |
| PIN CONNECTORS | STYLE | TERMINAL SIZE | PAGE |
|  | Uninsulated Crimp Pin Connector | 1-5 | 38 |
|  | Preinsulated Pin Connector | 1-3 | 38 |
|  | Preinsulated Supergrip Pin Connector | 0-3 | 38 |
| BOOTLACE FERRULES | STYLE | WIRE SIZE | PAGE |
|  | Bootlace Ferrule | 0.5-50.0 | 37 |
|  | Dual Bootlace Ferrule | | 37 |
| LINK CONNECTORS | STYLE | TERMINAL SIZE | PAGE |
|  | Preinsulated Crimp Link Cable Connector | 1-3 | 39 |
|  | Heavy Duty Preinsulated Crimp Link Cable Conn. | 4.7-8.3 | 40 |
|  | Closed End Preinsulated Crimp Link Cable Conn. | 2.08-4.6 | 39 |
| QC CONNECTORS | STYLE | WIRE SIZE | PAGE |
|  | 2.8m Receptacle | 0.5-1.5 | 40 |
|  | 4.8mm Receptacle | 0.5-2.5 | 40 |
|  | 6.3mm Receptacle | 0.5-6.0 | 41 |
|  | 6.3mm Tabs | 0.5-6.0 | 41 |
|  | 6.3mm Adaptor Piggy Back | 0.5-6.0 | 41 |
|  | 9.3mm Receptacle | 2.5-6.0 | 41 |
| LIP BLADE | STYLE | WIRE SIZE | PAGE |
|  | Lip Blade Terminal | 0.5-6.0 | 42 |
| BULLET CONNECTORS | STYLE | WIRE SIZE | PAGE |
|  | Preinsulated Terminal | 0.5-2.5 | 42 |
|  | Preinsulated Receptacle | 0.5-2.5 | 42 |
| BRASS CONNECTORS | STYLE | | PAGE |
| | TK22 Terminal Kit | | 43 |



UNINSULATED RING TERMINAL UTILUG



- Electro tinned to minimise corrosion
- Serrated barrel provides secure mechanical and electrical connection
- Also available in continuous strip form
- Suitable for small flexible cables

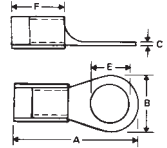


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | STUD SIZE | A | B | C | E | F | TOOL NO. |
|-----------|---------|---------------|--------------------------------|-----------|------|------|-----|------|------|----------|
| UR1.5M1.6 | H3110 | NO.1 | 0.5 | M1.6 | 12.5 | 5.5 | 0.7 | 2.5 | 4.8 | 00 |
| UR1.5M3S | H3111 | | | M3 | 12.5 | 5.5 | 0.7 | 3.7 | 4.8 | |
| UR1.5M3M | H3116 | | | M3 | 14.4 | 6.6 | 0.7 | 3.7 | 4.8 | |
| UR1.5M3L | H3112 | | | M3 | 15.8 | 8.0 | 0.7 | 3.7 | 4.8 | |
| UR1.5M4S | H3113 | | | M4 | 14.4 | 6.6 | 0.7 | 4.3 | 4.8 | |
| UR1.5M4L | H3114 | | 1.5 | M4 | 15.8 | 8.0 | 0.7 | 4.3 | 4.8 | 16B |
| UR1.5M5S | H3115 | | | M5 | 15.8 | 8.0 | 0.7 | 5.3 | 4.8 | |
| UR1.5M5L | H3117 | | | M5 | 21.8 | 11.6 | 0.7 | 5.3 | 4.8 | |
| UR1.5M6 | H3118 | | | M6 | 21.8 | 11.6 | 0.7 | 6.4 | 4.8 | |
| UR1.5M8 | H3119 | | | M8 | 21.8 | 11.6 | 0.7 | 8.4 | 4.8 | |
| UR1.5M10 | H3140 | 22-16AWG | | M10 | 25.5 | 13.6 | 0.7 | 10.5 | 4.8 | 63-1 |
| UR2.5M3S | H3120 | NO.2 | 1.5 | M3 | 14.4 | 6.6 | 0.8 | 3.7 | 4.8 | 00 |
| UR2.5M3L | H3121 | | | M3 | 16.8 | 8.5 | 0.8 | 3.7 | 4.8 | |
| UR2.5M4S | H3122 | | | M4 | 14.4 | 6.6 | 0.8 | 4.3 | 4.8 | |
| UR2.5M4L | H3123 | | | M4 | 16.8 | 8.5 | 0.8 | 4.3 | 4.8 | |
| UR2.5M5S | H3125 | | 2.5 | M5 | 16.8 | 8.5 | 0.8 | 5.3 | 4.8 | 16B |
| UR2.5M5L | H3126 | | | M5 | 16.8 | 9.5 | 0.8 | 5.3 | 4.8 | |
| UR2.5M6 | H3127 | | | M6 | 21.8 | 12.0 | 0.8 | 6.4 | 4.8 | |
| UR2.5M8 | H3128 | | | M8 | 21.8 | 12.0 | 0.8 | 8.4 | 4.8 | |
| UR2.5M10 | H3129 | | | M10 | 25.5 | 13.6 | 0.8 | 10.5 | 4.8 | |
| UR6M3 | H3132 | NO.3 | 2.5 | M3 | 15.7 | 7.2 | 1.0 | 3.7 | 6.0 | 00 |
| UR6M4S | H3130 | | | M4 | 15.7 | 7.2 | 1.0 | 4.3 | 6.0 | |
| UR6M4L | H3131 | | | M4 | 19.6 | 9.5 | 1.0 | 4.3 | 6.0 | |
| UR6M5 | H3133 | | | M5 | 19.6 | 9.5 | 1.0 | 5.3 | 6.0 | |
| UR6M6 | H3134 | | 6.0 | M6 | 22.5 | 12.0 | 1.0 | 6.4 | 6.0 | 16B |
| UR6M8 | H3137 | | | M8 | 27.0 | 15.0 | 1.0 | 8.4 | 6.0 | |
| UR6M10 | H3138 | | | M10 | 27.0 | 15.0 | 1.0 | 10.5 | 6.0 | |
| UR6M12 | H3139 | | | M12 | 31.6 | 19.2 | 1.0 | 13.0 | 6.0 | |
| UR6M16 | H3161 | | | M16 | 47.6 | 31.8 | 0.9 | 31.8 | 6.6 | |
| UR6M18 | H3162 | | | M18 | 47.6 | 31.8 | 0.9 | 31.8 | 6.6 | 124 |
| UR8.5M6 | H3183 | NO.4 | 6.0 | M6 | 23.8 | 12.0 | 1.2 | 6.4 | 8.5 | 00 |
| UR8.5M10 | H3185A | | | M10 | 29.8 | 15.0 | 1.2 | 10.5 | 8.5 | |
| UR8.5M16 | H3187A | | | M16 | 50.0 | 31.6 | 1.2 | 15.0 | 8.5 | |
| UR20M12 | H1851B | 5AWG | 20.0 | M12 | 54.0 | 31.8 | 1.8 | 15.0 | 15.9 | 20 |
| UR20M16 | H1851 | 5AWG | 20.0 | M16 | 54.0 | 31.8 | 1.8 | 15.0 | 15.9 | |



PRE-INSULATED RING TERMINAL UTILUG

- Copper electro tinned to minimise corrosion
- PVC insulation for insulation support

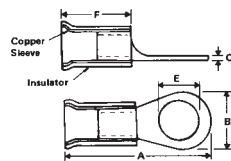
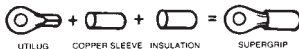


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | STUD SIZE | A | B | C | E | F | MAX. INSUL. DIA. mm | TOOL NO. |
|-----------|---------|------------------------------------|--------------------------------|-----------|------|------|-----|------|------|---------------------|--|
| RRM1.6 | H4110 | NO.1 RED 22-16AWG | 0.5 TO 1.5 | M1.6 | 17.5 | 5.5 | 0.7 | 3.2 | 10.0 | 3.5 | 76A 11C 11B 63-4B 102 120 |
| RRM3S | H4111 | | | M3 | 17.5 | 5.5 | 0.7 | 3.7 | 10.0 | | |
| RRM3M | H4116 | | | M3 | 19.4 | 6.6 | 0.7 | 3.7 | 10.0 | | |
| RRM3L | H4112 | | | M3 | 20.8 | 8.0 | 0.7 | 3.7 | 10.0 | | |
| RRM4S | H4113 | | | M4 | 19.4 | 6.6 | 0.7 | 4.3 | 10.0 | | |
| RRM4L | H4114 | | | M4 | 20.8 | 8.0 | 0.7 | 4.3 | 10.0 | | |
| RRM5S | H4115 | | | M5 | 20.8 | 8.0 | 0.7 | 5.3 | 10.0 | | |
| RRM5L | H4117 | | | M5 | 26.8 | 11.6 | 0.7 | 5.3 | 10.0 | | |
| RRM6 | H4118 | | | M6 | 26.8 | 11.6 | 0.7 | 6.4 | 10.0 | | |
| RRM8 | H4119 | | | M8 | 26.8 | 11.6 | 0.7 | 8.4 | 10.0 | | |
| RRM10 | H4140 | | | M10 | 30.5 | 13.6 | 0.7 | 10.5 | 10.0 | | |
| BRM3S | H4120 | NO.2 BLUE 16-14AWG | 1.5 TO 2.5 | M3 | 19.4 | 6.6 | 0.8 | 3.7 | 10.0 | 4.3 | 76A 12C 12B 63-4U 102 120 |
| BRM3L | H4121 | | | M3 | 21.8 | 8.5 | 0.8 | 3.7 | 10.0 | | |
| BRM4M | H4124 | | | M4 | 17.8 | 6.6 | 0.8 | 3.7 | 10.0 | | |
| BRM4S | H4122 | | | M4 | 19.4 | 6.6 | 0.8 | 4.3 | 10.0 | | |
| BRM4L | H4123 | | | M4 | 21.8 | 8.5 | 0.8 | 4.3 | 10.0 | | |
| BRM5S | H4125 | | | M5 | 21.8 | 8.5 | 0.8 | 5.3 | 10.0 | | |
| BRM5L | H4126 | | | M5 | 21.8 | 9.5 | 0.8 | 5.3 | 10.0 | | |
| BRM6 | H4127 | | | M6 | 26.8 | 12.0 | 0.8 | 6.4 | 10.0 | | |
| BRM8 | H4128 | | | M8 | 26.8 | 12.0 | 0.8 | 8.4 | 10.0 | | |
| BRM10 | H4129 | | | M10 | 30.5 | 13.6 | 0.8 | 10.5 | 10.0 | | |
| YRM3 | H4132 | NO.3 YELLOW 12-10AWG | 2.5 TO 6.0 | M3 | 22.7 | 7.2 | 1.0 | 3.7 | 10.0 | 6.1 | 76A 13B 63-5U 102 120 |
| YRM4S | H4130 | | | M4 | 22.7 | 7.2 | 1.0 | 4.3 | 10.0 | | |
| YRM4L | H4131 | | | M4 | 26.6 | 9.5 | 1.0 | 4.3 | 10.0 | | |
| YRM5 | H4133 | | | M5 | 26.6 | 9.5 | 1.0 | 5.3 | 10.0 | | |
| YRM6 | H4134 | | | M6 | 29.5 | 12.0 | 1.0 | 6.4 | 10.0 | | |
| YRM8 | H4137 | | | M8 | 34.0 | 15.0 | 1.0 | 8.4 | 10.0 | | |
| YRM10 | H4138 | | | M10 | 34.0 | 15.0 | 1.0 | 10.5 | 10.0 | | |
| YRM12 | H4139 | | | M12 | 38.6 | 19.2 | 1.0 | 13.0 | 10.0 | | |
| YRM18 | H4162 | | | M18 | 54.8 | 31.8 | 0.9 | 31.8 | 13.5 | | |

RING TERMINAL SUPERGRIP UTILUG



- Fitted with a copper ferrule and pre-insulated for secure insulation support
- Copper electro tinned to minimise corrosion
 - Serrated barrel provides secure mechanical and electrical connection

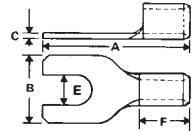


| DESCRPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | STUD SIZE | A | B | C | E | F | MAX. INSUL. DIA. mm | TOOL NO. |
|----------|---------|--------------------|--------------------------------|-----------|------|------|-----|------|------|---------------------|--|
| RRSGM1.6 | H4210 | NO.1 RED | 0.5 | M1.6 | 18.0 | 5.5 | 0.7 | 3.2 | 10.5 | 3.5 | 11C 11B 76B 63-4B 102 120 |
| RRSGM3S | H4211 | | | M3 | 18.0 | 5.5 | 0.7 | 3.7 | 10.5 | | |
| RRSGM3M | H4216 | | | M3 | 19.9 | 6.6 | 0.7 | 3.7 | 10.5 | | |
| RRSGM3L | H4212 | | | M3 | 21.3 | 8.0 | 0.7 | 3.7 | 10.5 | | |
| RRSGM4S | H4213 | | | M4 | 19.9 | 6.6 | 0.7 | 4.3 | 10.5 | | |
| RRSGM4L | H4214 | | | M4 | 21.3 | 8.0 | 0.7 | 4.3 | 10.5 | | |
| RRSGM5S | H4215 | | | M5 | 21.3 | 8.0 | 0.7 | 5.3 | 10.5 | | |
| RRSGM5L | H4217 | | | M5 | 27.3 | 11.6 | 0.7 | 5.3 | 10.5 | | |
| RRSGM6 | H4218 | | | M6 | 27.3 | 11.6 | 0.7 | 6.4 | 10.5 | | |
| RRSGM8 | H4219 | | | M8 | 27.3 | 11.6 | 0.7 | 8.4 | 10.5 | | |
| RRSGM10 | H4240 | | | M10 | 31.0 | 13.6 | 0.7 | 10.5 | 10.5 | | |
| BRSGM3S | H4220 | NO.2 BLUE | 1.5 | M3 | 19.9 | 6.6 | 0.8 | 3.7 | 10.5 | 4.3 | 12C 12B 76B 63-4U 102 120 |
| BRSGM3L | H4221 | | | M3 | 22.3 | 8.5 | 0.8 | 3.7 | 10.5 | | |
| BRSGM4S | H4222 | | | M4 | 19.9 | 6.6 | 0.8 | 4.3 | 10.5 | | |
| BRSGM4L | H4223 | | | M4 | 22.3 | 8.5 | 0.8 | 4.3 | 10.5 | | |
| BRSGM5S | H4225 | | | M5 | 22.3 | 8.5 | 0.8 | 5.3 | 10.5 | | |
| BRSGM5L | H4226 | | | M5 | 22.3 | 9.5 | 0.8 | 5.3 | 10.5 | | |
| BRSGM6 | H4227 | | | M6 | 27.3 | 12.0 | 0.8 | 6.4 | 10.5 | | |
| BRSGM8 | H4228 | | | M8 | 27.3 | 12.0 | 0.8 | 8.4 | 10.5 | | |
| BRSGM10 | H4229 | | | M10 | 31.0 | 13.6 | 0.8 | 10.5 | 10.5 | | |
| YRSGM3 | H4232 | NO.3 YELLOW | 2.5 | M3 | 23.2 | 7.2 | 1.0 | 3.7 | 13.5 | 6.1 | 13B 76B 63-5U 102 120 |
| YRSGM4S | H4230 | | | M4 | 23.2 | 7.2 | 1.0 | 4.3 | 13.5 | | |
| YRSGM4L | H4231 | | | M4 | 27.1 | 9.5 | 1.0 | 4.3 | 13.5 | | |
| YRSGM5 | H4233 | | | M5 | 27.1 | 9.5 | 1.0 | 5.3 | 13.5 | | |
| YRSGM6 | H4234 | | | M6 | 30.0 | 12.0 | 1.0 | 6.4 | 13.5 | | |
| YRSGM8 | H4237 | | | M8 | 34.5 | 15.0 | 1.0 | 8.4 | 13.5 | | |
| YRSGM10 | H4238 | | | M10 | 34.5 | 15.0 | 1.0 | 10.5 | 13.5 | | |
| YRSGM12 | H4239 | | | M12 | 39.1 | 19.2 | 1.0 | 13.0 | 13.5 | | |

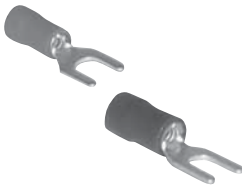


UNINSULATED FORK UTILUG

- Electro tinned to minimise corrosion
- Square sides provide a non-turn capability
 - Suits terminal blocks

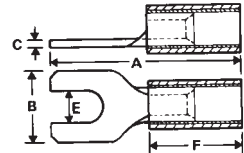


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm² | STUD SIZE | DIMENSIONS mm | | | | | TOOL NO. |
|-----------|---------|------------------|-----------------------|--------------|---------------|------|-----|-----|-----|------------|
| | | | | | A | B | C | E | F | |
| UF1.5M3 | H4312 | NO.1 22-16AWG | 0.5 | M3 | 16.0 | 6.4 | 0.7 | 3.7 | 4.8 | 00 |
| UF1.5M4 | H4314 | | | M4 | 16.0 | 7.2 | 0.7 | 4.3 | 4.8 | 16 |
| UF1.5M5S | H4315 | | 1.5 | M5 | 16.0 | 8.1 | 0.7 | 5.3 | 4.8 | 63-1 |
| UF1.5M5L | H4317 | | | M5 | 16.0 | 9.5 | 0.7 | 5.3 | 4.8 | 76B |
| UF2.5M3 | H4321 | NO.2 16-14AWG | 1.5 | M3 | 16.0 | 6.0 | 0.8 | 3.7 | 4.8 | 00 |
| UF2.5M4 | H4323 | | | M4 | 16.0 | 7.2 | 0.8 | 4.3 | 4.8 | 18, 16 |
| UF2.5M5L | H4326 | | 2.5 | M5 | 16.0 | 9.3 | 0.8 | 5.3 | 4.8 | 76B |
| UF6M3 | H4332 | | | M3 | 17.4 | 7.2 | 1.0 | 3.7 | 6.0 | 00 |
| UF6M4 | H4331 | NO.3 12-10AWG | 2.5 | M4 | 18.5 | 9.0 | 1.0 | 4.3 | 6.0 | 16 |
| UF6M5 | H4333 | | | M5 | 18.5 | 9.0 | 1.0 | 5.3 | 6.0 | 63-1 |
| UF6M6 | H4334 | | | M6 | 24.5 | 12.0 | 1.0 | 6.4 | 6.0 | 18,76B,124 |

4


SUPERGRIP FORK UTILUG

- Electro tinned to minimise corrosion
- Square sides provide a non-turn capability
 - Suits terminal blocks

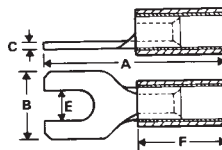


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm² | STUD SIZE | DIMENSIONS mm | | | | | TOOL NO. |
|-----------|---------|------------------|-----------------------|--------------|---------------|------|-----|-----|------|------------|
| | | | | | A | B | C | E | F | |
| RFSGM3 | H4512 | NO.1 22-16AWG | 0.5 | M3 | 21.5 | 6.4 | 0.7 | 3.7 | 10.5 | 76B |
| RFSGM4 | H4514 | | | M4 | 21.5 | 7.2 | 0.7 | 4.3 | 10.5 | 11C or 11B |
| RFSGM5S | H4515 | | | M5 | 21.5 | 8.1 | 0.7 | 5.3 | 10.5 | 63-4B |
| RFSGM5L | H4517 | | | M5 | 21.5 | 9.5 | 0.7 | 5.3 | 10.5 | 102, 120 |
| BFSGM3 | H4521 | NO.2 16-14AWG | 1.5 | M3 | 21.5 | 5.7 | 0.8 | 3.2 | 10.5 | 76B |
| BFSGM4 | H4523 | | | M4 | 21.5 | 7.2 | 0.8 | 4.3 | 10.5 | 12C or 12B |
| BFSGM5S | H4525 | | | M5 | 21.5 | 7.9 | 0.8 | 5.3 | 10.5 | 63-4U |
| BFSGM5L | H4526 | | | M5 | 21.5 | 9.3 | 0.8 | 5.3 | 10.5 | 102, 120 |
| YFSGM3 | H4532 | NO.3 12-10AWG | 2.5 | M3 | 24.9 | 7.2 | 1.0 | 3.7 | 13.5 | 76B |
| YFSGM4 | H4531 | | | M4 | 26.0 | 9.0 | 1.0 | 4.3 | 13.5 | 13B |
| YFSGM5 | H4533 | | | M5 | 26.0 | 9.0 | 1.0 | 5.3 | 13.5 | 63-5U |
| YFSGM6 | H4534 | | | M6 | 32.0 | 12.0 | 1.0 | 6.4 | 13.5 | 102, 120 |

PRE-INSULATED FORK UTILUG



- Copper electro tinned to minimise corrosion
- Square sides provide a non-turn capability

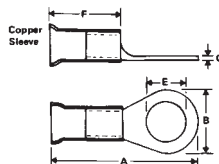


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | STUD SIZE | A | B | C | E | F | MAX. INSUL. DIA. mm | TOOL NO. |
|-----------|---------|---------------|--------------------------------|-----------|------|------|-----|-----|------|---------------------|---------------|
| RFM3 | H4412 | NO.1 | 0.5 | M3 | 21.0 | 6.4 | 0.7 | 3.7 | 10.0 | 3.5 | 9A |
| RFM4 | H4414 | RED | TO | M4 | 21.0 | 7.2 | 0.7 | 4.3 | 10.0 | | 11C OR 11B |
| RFM5S | H4415 | 22-16AWG | 1.5 | M5 | 21.0 | 8.1 | 0.7 | 5.3 | 10.0 | | 63-4B |
| RFM5L | H4417 | | 1.5 | M5 | 21.0 | 9.5 | 0.7 | 5.3 | 10.0 | | 99, 102, 120 |
| BFM3 | H4421 | NO.2 | 1.5 | M3 | 21.0 | 6.0 | 0.8 | 3.7 | 10.0 | 4.3 | 9A |
| BFM4 | H4423 | BLUE | TO | M4 | 21.0 | 7.2 | 0.8 | 4.3 | 10.0 | | 12C, 12B, 76B |
| BFM5S | H4425 | 16-14AWG | 2.5 | M5 | 21.0 | 7.9 | 0.8 | 5.3 | 10.0 | | 63-4U |
| BFM5L | H4426 | | 2.5 | M5 | 21.0 | 9.3 | 0.8 | 5.3 | 10.0 | | 99, 102, 120 |
| YFM3 | H4432 | NO.3 | 2.5 | M3 | 25.5 | 8.3 | 1.0 | 3.7 | 13.0 | 6.1 | 9A |
| YFM4 | H4431 | YELLOW | TO | M4 | 25.5 | 9.0 | 1.0 | 4.3 | 13.0 | | 13B, 76 |
| YFM5 | H4433 | 12-10AWG | 6.0 | M5 | 25.5 | 9.0 | 1.0 | 5.3 | 13.0 | | 63-4B |
| YFM6 | H4434 | | 6.0 | M6 | 31.5 | 12.0 | 1.0 | 6.4 | 13.0 | | 99, 102, 120 |



HIGH TEMPERATURE UTILUG RING TERMINAL

- Rated at 280°C
- Nickel plated

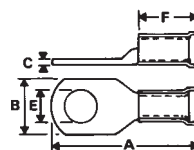


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | STUD SIZE | A | B | C | E | F | MAX. INSUL. DIA. mm | TOOL NO. |
|-----------|---------|---------------|--------------------------------|-----------|------|------|-----|------|------|---------------------|------------------|
| RHT1.5M5 | H3215 | NO.1 22-16AWG | 0.5 TO 1.5 | M5 | 19.2 | 7.9 | 0.7 | 7.9 | 9.0 | 3.6 | 76B, 16 |
| RHT2.5M4 | H3223 | NO.2 16-14AWG | 1.5 TO 2.5 | M4 | 22.5 | 8.7 | 0.7 | 8.7 | 11.1 | 4.3 | 76B 16 |
| RHT2.5M5 | H3225 | | | M5 | 22.5 | 8.7 | 0.7 | 8.7 | 11.1 | | |
| RHT2.5M6 | H3227 | | | M6 | 27.8 | 12.7 | 0.7 | 12.7 | 11.1 | | |
| RHT6M5 | H3233 | NO.3 | 2.5 TO | M5 | 24.4 | 9.5 | 0.9 | 9.5 | 12.7 | 6.1 | 16, 18, 76B, 124 |
| RHT6M6 | H3234 | 12-10AWG | 6.0 | M6 | 29.3 | 12.7 | 0.9 | 12.7 | 12.7 | | |



HEAVY DUTY INSULATED RING TERMINAL

- Seamless drawn copper tube electro tinned,
- black nylon insulator • Palms radiused

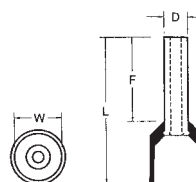


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | STUD SIZE | A | B | C | E | F | MAX. INSUL. DIA. mm | TOOL NO. |
|-----------|---------|---------------|--------------------------------|-----------|------|------|-----|------|------|---------------------|-------------------|
| RHD0.5M5S | H2001S | 0.5 | 1/0.80 | M5 | 26.0 | 8.6 | 0.9 | 11.1 | 12.7 | 3.5 | 76B, 60, 28A |
| RHD0.5M5L | H2001L | | | M5 | 29.4 | 8.7 | 0.9 | 15.1 | 12.7 | | |
| RHD0.5M6 | H2002 | | | M6 | 30.0 | 10.3 | 0.8 | 15.1 | 12.7 | | |
| RHD2.5M5 | H2036 | 2.5 | 7/0.67 | M5 | 26.2 | 9.0 | 1.0 | 11.9 | 12.7 | 4.3 | 76B, 60, 28A |
| RHD2.5M6 | H2037 | | | M6 | 30.9 | 10.3 | 0.9 | 15.1 | 12.7 | | |
| RHD4M5S | H2003S | 4.0 | 7/0.85 | M5 | 28.9 | 8.7 | 1.5 | 11.1 | 14.0 | 6.1 | 76B, 60, 28A, 124 |
| RHD4M5L | H2003L | | | M5 | 32.6 | 8.7 | 1.4 | 14.7 | 14.0 | | |
| RHD4M6 | H2004 | | | M6 | 32.0 | 10.0 | 1.2 | 15.1 | 14.0 | | |
| RHD6M6 | H2005 | 6 | 7/1.04 | M6 | 31.0 | 10.0 | 1.2 | 15.1 | 13.0 | 6.8 | 60, 124 |
| RHD10M6 | H2006 | 10 | 7/1.35 | M6 | 31.8 | 11.9 | 1.8 | 15.1 | 13.0 | 8.3 | 60, 124 |

4

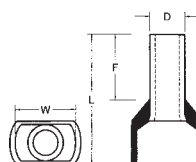
BOOTLACE FERRULES

| CAT NO. | Nominal Conductor (mm ²) | L | F | D | W | COLOUR | CRIMPING TOOL NO. |
|---------|--------------------------------------|------|------|------|------|--------|-------------------|
| BLF05 | 0.5 | 12.0 | 6.0 | 1.3 | 2.6 | White | #112 #125 |
| BLF07 | 0.75 | 12.3 | 6.0 | 1.5 | 2.8 | Blue | #112 #125 |
| BLF1 | 1.0 | 12.3 | 6.0 | 1.7 | 3.3 | Red | #112 #125 |
| BLF2 | 1.5 | 14.3 | 8.0 | 2.0 | 3.5 | Black | #112 #125 |
| BLF3 | 2.5 | 15.4 | 8.0 | 2.6 | 4.0 | Grey | #112 #125 |
| BLF4 | 4 | 16.4 | 9.0 | 3.2 | 4.5 | Orange | #112 #125 #126 |
| BLF6 | 6 | 20.5 | 12.0 | 3.9 | 6.0 | Green | #112 #121 #126 |
| BLF10 | 10 | 20.8 | 12.0 | 4.9 | 7.5 | Brown | #112 #121 #126 |
| BLF16 | 16 | 22.2 | 12.0 | 6.2 | 8.7 | Ivory | #121 |
| BLF25 | 25 | 28.0 | 16.0 | 7.9 | 11.0 | Black | #121 |
| BLF35 | 35 | 30.0 | 16.0 | 8.7 | 12.5 | Beige | #122 |
| BLF50 | 50 | 36.0 | 20.0 | 10.9 | 15.0 | Olive | #122 |
| BLF70 | 70 | 37.0 | 20.0 | 14.3 | 16.0 | Yellow | #38A |
| BLF95 | 95 | 44.0 | 25.0 | 15.3 | 18.5 | Red | #38A |
| BLF120 | 120 | 47.6 | 27.0 | 17.5 | 20.3 | Blue | #38A |



DUAL BOOTLACE FERRULES

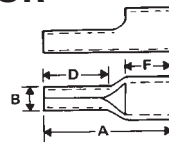
| CAT NO. | Nominal Conductor (mm ²) | L | F | D | W | COLOUR | CRIMPING TOOL NO. |
|---------|--------------------------------------|------|------|-----|-----|--------|-------------------|
| BLFT07 | 0.75 | 14.7 | 8.0 | 2.1 | 5.5 | Grey | #112 #125 |
| BLFT1 | 1.0 | 15.1 | 8.0 | 2.3 | 5.5 | Red | #112 #125 |
| BLFT2 | 1.5 | 15.5 | 8.0 | 2.6 | 6.4 | Black | #112 #125 |
| BLFT3 | 2.5 | 18.5 | 10.0 | 3.3 | 8.0 | Blue | #112 #125 |
| BLFT4 | 4 | 23.1 | 12.0 | 4.2 | 8.8 | Grey | #112 #125 |
| BLFT6 | 6 | 26.1 | 14.0 | 5.3 | 9.5 | Yellow | #112 #125 |



UNINSULATED CRIMP PIN CONNECTOR



- Electro tinned copper to minimise corrosion
- Sizes 1, 2, 3 circular pin • Sizes 4, 5 flat pin

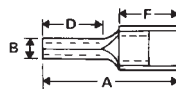


| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | A | DIMENSIONS mm B | D | F | TOOL NO. |
|-----------|---------|---------------|--------------------------------|------|--------------------|------|-----|------------------|
| UP1.5 | H2271 | NO.1 | 0.5-1.5 | 15.9 | 1.6 | 9.5 | 5.2 | 76B, 00, 16B, 21 |
| UP2.5 | H2272 | NO.2 | 1.5-2.5 | 17.4 | 2.0 | 10.3 | 5.5 | 76B, 00, 16B, 21 |
| UP6 | H2273 | NO.3 | 2.5-6.0 | 20.6 | 2.8 | 11.9 | 6.6 | 76B, 00, 16B, 21 |

PRE-INSULATED PIN CONNECTOR



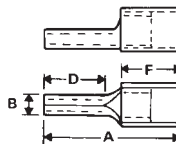
- Electro tinned copper to minimise corrosion
- PVC insulation • Circular pin



| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | A | DIMENSIONS mm B | D | F | MAX. INSUL. DIA mm | TOOL NO. |
|-----------|---------|---------------|--------------------------------|------|--------------------|------|------|--------------------|-----------------------------|
| RP | H2276 | NO.1 Red | 0.5-1.5 | 21.0 | 1.6 | 9.5 | 10.3 | 3.3 | 76B, 11C, 11B, 99, 102, 120 |
| BP | H2278 | NO.2 Blue | 1.5-2.5 | 23.8 | 2.0 | 10.3 | 11.9 | 4.3 | 76B, 12C, 12B, 99, 102, 120 |
| YP | H2280 | NO.3 Yellow | 2.5-6.0 | 27.5 | 2.8 | 11.9 | 13.5 | 6.1 | 76B, 13B, 99, 102, 120 |

SUPERGRIP PIN CONNECTOR

- Electro tinned copper to minimise corrosion • Circular pin
- Fitted with a copper ferrule and pre-insulated for secure insulation support



| DESCRIPT. | CAT NO. | TERMINAL SIZE | CONDUCTOR AREA mm ² | A | DIMENSIONS mm B | D | F | MAX. INSUL. DIA mm | TOOL NO. |
|-----------|---------|---------------|--------------------------------|------|--------------------|------|------|--------------------|-----------------------------|
| MYPSG | H3556 | NO.0 Yellow | 0.2-0.5 | 18.3 | 1.2 | 10.0 | 8.3 | 2.2 | 78 |
| RPSG | H2286 | NO.1 Red | 0.5-1.5 | 21.0 | 1.6 | 9.5 | 10.3 | 3.5 | 76B, 11C, 11B, 99, 102, 120 |
| BPSG | H2287 | NO.2 Blue | 1.2-2.5 | 23.8 | 2.0 | 10.3 | 11.9 | 4.3 | 76B, 12C, 12B, 99, 102, 120 |
| YPSG | H2288 | NO.3 Yellow | 2.5-6.0 | 27.5 | 2.8 | 11.9 | 13.5 | 6.1 | 76B, 13B, 99, 102, 120 |

PRE-INSULATED AND SUPERGRIP CRIMP LINK CABLE CONNECTOR

- Solid drawn copper tube • Electro tinned to minimise corrosion
- Centre dimple to ensure correct conductor traverse inside link • Vinyl insulation

STYLE 1. Parallel splice conductor area shown is total of two (or more) conductors to be connected parallel.

Ideal for inline joints between uneven sized conductor – vinyl insulation.

STYLE 2. Centre dimple to ensure correct conductor positions – vinyl insulation.

STYLE 3. Supergrip butt splice with translucent insulation (to ensure correct conductor insertion) and depressed centre to enable use in appropriate ratchet crimp tool without removal of stopper.



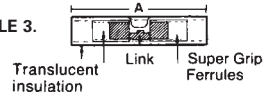
STYLE 1.



STYLE 2.



STYLE 3.

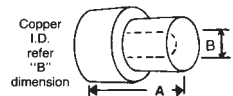


| DESCRIPT. | CAT NO. | INSULATION | CONDUCTOR AREA mm ² | STYLE | DIMENSIONS A mm | MAX. INSUL. DIA. mm | TOOL NO. |
|-----------|---------|------------|--------------------------------|-------|-----------------|---------------------|--------------------------------|
| RL | H2068 | Red | 0.5-1.5 | 1 | 13.0 | 3.2 | 76B, 11C, 11B, 63-4B, 102, 120 |
| BL | H2069 | Blue | 1.5-2.5 | 1 | 13.0 | 4.0 | 76B, 12C, 12B, 63-4U, 102, 120 |
| YL | H2070 | Yellow | 2.5-6.0 | 1 | 15.0 | 5.5 | 76B, 13B, 63-5U, 102, 120 |
| RLD | H2071 | Red | 0.5-1.5 | 2 | 22.2 | 3.2 | 76B, 11C, 11B, 63-4B, 102, 120 |
| BLD | H2072 | Blue | 1.5-2.5 | 2 | 25.4 | 4.0 | 76B, 12C, 12B, 63-4U, 102, 120 |
| YLD | H2073 | Yellow | 2.5-6.0 | 2 | 27.0 | 5.5 | 76B, 13B, 63-5U, 102, 120 |
| RLSG | H3910 | Red | 0.5-1.5 | 3 | 31.0 | 4.0 | 76B, 11C, 11B, 63-4B, 102, 120 |
| BLSG | H3911 | Blue | 1.5-2.5 | 3 | 31.0 | 4.6 | 76B, 12C, 12B, 63-4U, 102, 120 |
| YLSG | H3912 | Yellow | 2.5-6.0 | 3 | 41.0 | 6.2 | 76B, 13B, 63-5U, 102, 120 |



CLOSED END PRE-INSULATED CABLE CONNECTOR

- Electro tinned to minimise corrosion
- Nylon insulation to maximise dielectric strength

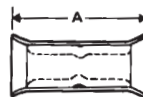


| DESCRIPT. | CAT NO. | STRANDING METRIC | I.D. mm B | DIMENSIONS A mm | TOOL NO. |
|-----------|---------|------------------|-----------|-----------------|---------------|
| CEC1 | H349 | 2X24/0.20 | 2.08 | 15.1 | 76B, 11A, 11B |
| CEC2 | H2023 | 2X24/0.20 | 3.3 | 21 | 28A |
| CEC5 | H2026 | 2X50/0.25 | 4.5 | 27 | 28A |
| CEC1.5 | H2047 | 2X32/0.20 | 2.5 | 15.2 | 76B, 11C, 11B |
| CEC2.5 | H2048 | 2X32/0.20 | 3.7 | 18 | 76B, 13B |
| CEC4 | H2050 | 2X32/0.20 | 3.35 | 19.1 | 76B, 13B |
| CEC8 | H2049 | 5X32/0.20 | 5.0 | 30 | 76B |

HEAVY DUTY PRE-INSULATED CRIMP LINK CONNECTOR



- Seamless drawn copper tube
- Black nylon insulated
- Centre dimple to help locate the conductor
- Electro tinned to minimise corrosion

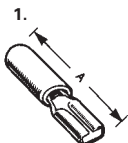


| DESCRIPT. | CAT NO. | STRANDING METRIC | DIMENSIONS A mm | MAX. INSUL. DIA. mm | TOOL NO. |
|-----------|---------|------------------|--------------------|------------------------|----------|
| LHD2.5S | H2051 | 1/0.80-7/0.67 | 30.1 | 4.7 | 28, 76B |
| LHD2.5 | H2067 | 7/0.67 | 30.1 | 4.7 | 28, 76B |
| LHD4 | H2052 | 7/0.67-7/0.85 | 32.3 | 6.4 | 28, 76B |
| LHD6 | H2053 | 7/1.04 | 29.0 | 8.3 | 28 |
| LHD10 | H2054 | 7/1.35 | 29.0 | 8.3 | 76B, 13B |



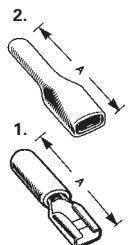
2.8mm Q.C. RECEPTACLE

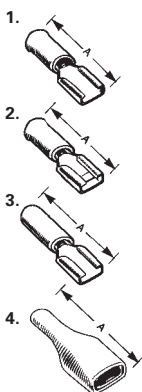
| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|--------------|---------|---------------|---------------|-----------|--------|----------------|------------------------|------------------------------|------------------------|
| RQCSG2.8/0.8 | H3558 | 1 | Brass/ PVC | 0.25 | ET | 17.9 | 3.2 | 0.5-1.5 | Red to suit 0.8 Tab |
| RQCSG2.8/0.5 | H3564 | 1 | Brass/ PVC | 0.25 | ET | 17.9 | 3.2 | 0.5-1.5 | Red to suit 0.5 Tab |



4.8mm Q.C. RECEPTACLES to suit 0.5mm tabs

| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|---------------|-----------|-----------|--------|----------------|------------------------|------------------------------|-------|
| RQCSG4.8 | H3559 | 1 | Brass/PVC | 0.40 | ET | 18.7 | 3.2 | 0.5-1.5 | Red |
| RQCSG4.8F | H3563 | 2 | Brass/PVC | 0.35 | ET | 20.0 | 2.7 | 0.5-1.5 | Red |
| BQCSG4.8 | H3565 | 1 | Brass/PVC | 0.40 | ET | 18.7 | 4.0 | 1.5-2.5 | Blue |
| BQCSG4.8F | H3566 | 2 | Brass/PVC | 0.35 | ET | 20.0 | 3.2 | 1.5-2.5 | Blue |



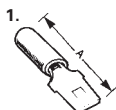


6.3mm Q.C. RECEPTACLES to suit 0.8mm tabs

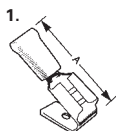
| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|------------|-----------|-----------|--------|-------------|---------------------|---------------------------|--------|
| RQCSG6.3 | H2594A | 2 | Brass/PVC | 0.40 | ET | 20.5 | 3.5 | 0.5-1.5 | Red |
| BQCSG6.3 | H2595A | 2 | Brass/PVC | 0.40 | ET | 20.5 | 4.3 | 1.5-2.5 | Blue |
| YQCSG6.3 | H2596A | 2 | Brass/PVC | 0.40 | ET | 24.6 | 4.3 | 2.5-6.0 | Yellow |
| RQCSG6.3L | H2594 | 1 | Brass/PVC | 0.40 | ET | 22.2 | 3.5 | 0.5-1.5 | Red |
| BQCSG6.3L | H2595 | 1 | Brass/PVC | 0.40 | ET | 23.8 | 4.3 | 1.5-2.5 | Blue |
| YQCSG6.3L | H2596 | 1 | Brass/PVC | 0.70 | ET | 25.4 | 6.0 | 2.5-6.0 | Yellow |
| RQCSG6.3F | H3560 | 4 | Brass/PVC | 0.70 | ET | 22.0 | 2.7 | 0.5-1.5 | Red |
| BQCSG6.3F | H3561 | 4 | Brass/PVC | 0.70 | ET | 22.0 | 3.2 | 1.5-2.5 | Blue |
| YQCSG6.3F | H3562 | 4 | Brass/PVC | 0.70 | ET | 25.0 | 3.8 | 2.5-6.0 | Yellow |



6.3mm Q.C. TABS



| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|------------|-----------|-----------|--------|-------------|---------------------|---------------------------|--------|
| RTSG6.3 | H2844 | 1 | Brass/PVC | 0.80 | ET | 23.2 | 3.5 | 0.5-1.5 | Red |
| BTSG6.3 | H2845 | 1 | Brass/PVC | 0.85 | ET | 24.8 | 4.3 | 1.5-2.5 | Blue |
| YTSG6.3 | H2846 | 1 | Brass/PVC | 0.80 | ET | 26.3 | 6.0 | 2.5-6.0 | Yellow |



6.3mm ADAPTORS Q.C. PIGGY BACK

| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|------------|-----------|-----------|--------|-------------|---------------------|---------------------------|--------|
| RPBSG6.3 | H2847A | 1 | Brass/PVC | 0.80 | ET | 22.2 | 3.5 | 0.5-1.5 | Red |
| BPBSG6.3 | H2848A | 1 | Brass/PVC | 0.85 | ET | 22.2 | 4.3 | 1.5-2.5 | Blue |
| YPBSG6.3 | H2849 | 1 | Brass/PVC | 0.80 | ET | 24.0 | 6.0 | 2.5-6.0 | Yellow |

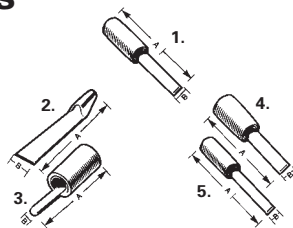


9.3mm Q.C. RECEPTACLES



| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|------------|-----------|-----------|--------|-------------|---------------------|---------------------------|--------|
| YQC9.3 | H2853A | 1 | Brass/PVC | - | ET | 29.2 | 6.2 | 2.5-6.0 | Yellow |

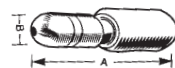
LIP BLADE TERMINALS



| DESCRIPT. | CAT NO. | ILLUS. NO. | MATERIAL | THICKNESS | FINISH | LENGTH A mm | WIDTH B mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|------------|----------|-----------|--------|-------------|------------|---------------------|---------------------------|-------------------------|
| RLB | H2736 | 1 | Copper | 0.7 | ET | 24.8 | 3.0 | 3.5 | 0.5-1.5 | Red |
| BLB | H2737 | 1 | Copper | 0.7 | ET | 26.8 | 3.0 | 3.7 | 1.5-2.5 | Blue |
| RLBSG | H2736A | 1 | Copper | 0.8 | ET | 27.7 | 3.0 | 3.5 | 0.5-1.5 | Red |
| BLBSG | H2737A | 1 | Copper | 0.8 | ET | 27.7 | 3.0 | 4.1 | 1.5-2.5 | Blue |
| YLBSG | H2738A | 1 | Copper | 1.0 | ET | 30.7 | 3.0 | 4.1 | 1.5-2.5 | Yellow |
| RLLBSG | H3916A | 3 | Copper | 0.7 | ET | 17.2 | 3.0 | 3.5 | 0.25-1.5 | Lipless Miniature Blade |
| BLLBSG | H3917A | 3 | Copper | 0.7 | ET | 18.0 | 3.0 | 4.3 | 0.6-3.0 | Lipless Miniature Blade |
| YLLBSG | H3918A | 3 | Copper | 0.9 | ET | 22.4 | 3.0 | 6.3 | 2.5-6.0 | Lipless Miniature Blade |
| RLLBSGL | H4107A | 4 | Copper | 0.8 | ET | 28.5 | 2.2 | 3.5 | 0.5-1.5 | Lipless Long Blade |
| BLLBSGL | H4108A | 4 | Copper | 0.8 | ET | 28.5 | 2.2 | 4.3 | 1.5-2.5 | Lipless Long Blade |
| RLBW | H4107 | 4 | Copper | 0.8 | ET | 25.8 | 4.6 | 3.5 | 0.5-1.5 | Red |
| BLBW | H4108 | 4 | Copper | 0.8 | ET | 25.8 | 4.6 | 4.3 | 1.5-2.5 | Blue |
| YLBW | H4109 | 4 | Copper | 0.8 | ET | 30.3 | 4.6 | 6.3 | 2.5-6.0 | Yellow |
| RLBSGW | H4207 | 5 | Copper | 0.8 | ET | 26.4 | 4.6 | 3.5 | 0.5-1.5 | Red Supergrip |
| BLBSGW | H4208 | 5 | Copper | 0.8 | ET | 26.4 | 4.6 | 4.3 | 1.5-2.5 | Blue Supergrip |
| YLBBSGW | H4209 | 5 | Copper | 0.8 | ET | 30.8 | 4.6 | 6.3 | 2.5-6.0 | Yellow Supergrip |



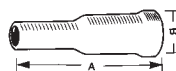
BULLET TERMINAL



| DESCRIPT. | CAT NO. | MATERIAL | FINISH | LENGTH A mm | LENGTH B mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|-----------|--------|-------------|-------------|---------------------|---------------------------|------------------|
| RBSG | H3919 | Brass/PVC | ET | 20.2 | 4.0 | 3.5 | 0.5-1.5 | Mates with H3922 |
| BBSG | H3920 | Brass/PVC | ET | 20.7 | 5.0 | 4.3 | 1.5-2.5 | Mates with H3923 |



BULLET RECEPTACLE



| DESCRIPT. | CAT NO. | MATERIAL | FINISH | LENGTH A mm | LENGTH B mm | MAX. INSUL. DIA. mm | WIRE SIZE mm ² | NOTES |
|-----------|---------|-----------|--------|-------------|-------------|---------------------|---------------------------|------------------|
| RBRSG | H3922 | Brass/PVC | ET | 24.0 | 4.0 | 2.7 | 0.5-1.5 | Mates with H3919 |
| BBRSG | H3923 | Brass/PVC | ET | 25.0 | 5.0 | 3.2 | 1.5-2.5 | Mates with H3920 |

TK22 ELECTRICAL TERMINAL KIT

- 1405 mixed supergrip terminals for 240V/415V applications
- Quality ratchet crimping tool (#102) • Tough metal carry case.

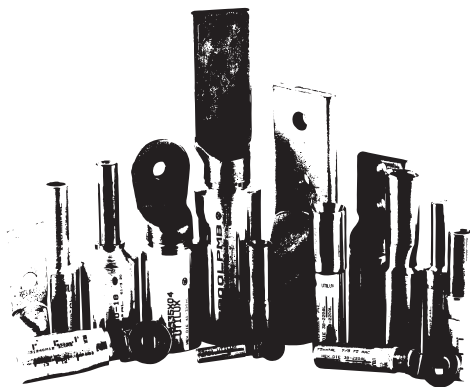


CONTENTS:

| CAT. NO. | DESCRIPTION | QTY |
|----------|--------------------------------------|-----|
| H2594A | 6.3mm QC Receptacle Red | 50 |
| H2595 | 6.3mm QC Receptacle Blue | 100 |
| H2596A | 6.3mm QC Receptacle Yellow | 50 |
| H2844 | 6.3mm QC Tab Red | 50 |
| H2845 | 6.3mm QC Tab Blue | 100 |
| H2848A | 6.3mm QC Piggy Back Adaptor | 50 |
| H3560 | 6.3mm QC Receptacle Red | 50 |
| H3561 | 6.3mm QC Receptacle Blue | 50 |
| H3562 | 6.3mm QC Receptacle Yellow | 40 |
| H3563 | 4.8mm QC Receptacle Red | 50 |
| H3910 | Window Crimp Link Red | 50 |
| H3911 | Window Crimp Link Blue | 50 |
| H3912 | Window Crimp Link Yellow | 25 |
| H4213 | 4.3mm Supergrip Ring Terminal Red | 100 |
| H4215 | 5.3mm Supergrip Ring Terminal Red | 100 |
| H4218 | 6.4mm Supergrip Ring Terminal Red | 80 |
| H4223 | 4.3mm Supergrip Ring Terminal Blue | 100 |
| H4225 | 5.3mm Supergrip Ring Terminal Blue | 70 |
| H4234 | 6.4mm Supergrip Ring Terminal Yellow | 40 |
| H4523 | 4.3mm Supergrip Fork Terminal Blue | 100 |
| H4514 | 4.0mm Spade Connector | 100 |
| #102 | Crimping Tool | 1 |

Utilux Custom Connectors

48 HOURS



Applicable to non-catalogue items only.
Lead time subject to prompt customer sign off.

- ✓ **Ordered**
- using UCC request form
- ✓ **Manufactured**
- to your specification
- ✓ **Dispatched**
- sent express

 **TE** ENERGY
connectivity

SECTION 5

OVERHEAD CONDUCTOR SLEEVES AND LUGS

This range is designed for overhead AAC, AAAC and ACSR conductor in both non-tension and full tension applications. The splices are marked to clearly indicate the conductor type, crimping dies and crimping positions.

Hexagonal crimping is recommended for overhead conductor. Crimp die combinations have been selected to achieve desirable compression ratios. Most of these are listed in this catalogue.

For the conductors that are not listed, refer to your local Utilux Technical Sales Representative for recommendations.

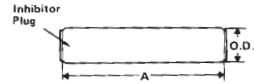
Care should be taken in preparing aluminium conductor to ensure it is properly scratch brushed and inhibiting compound is applied.

These products have been tested for most conductors and comply to AS1154-1985.

| SLEEVES | STYLE | STUD SIZE | PAGE |
|---|---|---------------------------|------|
|  | Non Tension Sleeve | 6-26.25mm ² | 46 |
|  | Full Tension Sleeve - Type A | 6-26.25mm ² | 46 |
|  | Full Tension Sleeve - Type R | 6-19.5mm ² | 47 |
|  | Jumper Splice Sleeve | 6-23.5mm ² | 47 |
| LUGS | STYLE | CONDUCTOR AREA | PAGE |
|  | Terminal Lug Type AL | 6-19.5mm ² | 48 |
|  | Terminal Lug Type SL | 6-19.5mm ² | 48 |
| CONNECTORS | STYLE | CONDUCTOR AREA | PAGE |
|  | For Stranded Copper Conductors | 6.35-28.57mm ² | 49 |
| JOINTING COMPOUND | STYLE | CONDUCTOR AREA | PAGE |
|  | Conductive Compound with Zinc Particles | KD Grey | 48 |
| TOOLING | STYLE | | PAGE |
|  | TY Series Crimping Tool | | 50 |
|  | TR Series Crimping Tool | | 50 |
| | 38A Hydraulic Crimping Tool | | 50 |

NON TENSION SLEEVES

- Tubular aluminium alloy
- Pre-packed with jointing compound
 - Individually packed in sealed plastic bags
- Suitable for overhead and underground joints in industrial and commercial installation
- **Suitable for AAC, AAAC and ACSR conductors**
 - Use hexagonal or indent type of crimps
 - Centre barrier included

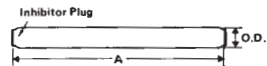


| CAT NO. | CONDUCTOR RANGE O.D. mm | LENGTH A mm | NOMINAL O.D. | UC6 VERSA |
|---------|-------------------------|-------------|--------------|-----------|
| NT36 | 6-8 | 59 | 16.5 | 2 |
| NT44 | 8-10 | 70 | 20.6 | 2 |
| NT50 | 10-12 | 84 | 20.6 | 3 |
| NT58 | 12-13.5 | 111 | 22.2 | 3 |
| NT61 | 13-14.5 | 111 | 25.4 | 3 |
| NT68 | 14-16 | 146 | 25.4 | 4 |
| NT80 | 16.5-19.5 | 146 | 30.1 | 5 |
| NT94 | 20-23.5 | 155 | 35 | - |
| NT114 | 24.5-26.25 | 185 | 50 | - |

Refer Appendix A (Section 10/Page 109) for full list of cables and applicable product and crimp dies.

FULL TENSION SLEEVES - TYPE A

- Tubular aluminium alloy
- Pre-packed with jointing compound
 - Individually packed in sealed plastic bags
- Use hexagonal or indent type of crimps
 - Designed for full tension splices of overhead transmission lines
- **Suits all aluminium conductors (AAC)**
 - Centre barrier included

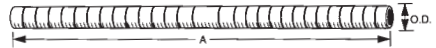


| CAT NO. | CONDUCTOR RANGE O.D. mm | LENGTH A mm | NOMINAL O.D. |
|---------|-------------------------|-------------|--------------|
| FT36A | 6-8 | 165 | 16.5 |
| FT44A | 8-10 | 165 | 20.6 |
| FT50A | 10-12 | 203 | 20.6 |
| FT58A | 12-13.5 | 203 | 22.2 |
| FT61A | 13-14.5 | 241 | 25.4 |
| FT68A | 14-16 | 279 | 25.4 |
| FT80A | 16.5-19.5 | 318 | 30.1 |
| FT94A | 20-21.75 | 387 | 35 |
| FT114A | 24.5-26.25 | 710 | 50 |

Refer Appendix A (Section 10/Page 109) for full list of cables and applicable product and crimp dies.

FULL TENSION SLEEVES – TYPE R

- Designed for full tension splices of overhead transmission lines
- **Suit conventional or smooth body conductors, ACSR, all aluminium and all aluminium alloy conductors**
 - Centre barrier included
 - Remove excess grease from steel core of ACSR cables
- Do not use solvent
- Conductor range O.D. measurements nominated have been determined on the basis of high ratio aluminium/steel conductor configuration
- For high ratio steel/aluminium conductors refer to Utilux for recommendation



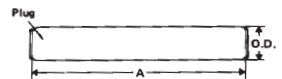
| CAT NO. | CONDUCTOR RANGE O.D. mm | LENGTH A mm | NOMINAL O.D. |
|---------|-------------------------|-------------|--------------|
| FT36R | 6-8 | 344 | 16.5 |
| FT44R | 8-10 | 379 | 20.6 |
| FT50R | 10-12 | 470 | 20.6 |
| FT58R | 12-13.5 | 470 | 22.2 |
| FT61R | 13-14.5 | 505 | 25.4 |
| FT68R | 14-16 | 530 | 25.4 |
| FT80R | 16.5-19.5 | 580 | 30.1 |

Refer Appendix A (Section 10/Page 109) for full list of cables and applicable product and crimp dies.

5

JUMPER SPLICE SLEEVE

- Tubular aluminium alloy fittings
- Pre-packed with jointing compound
- Individually packed in sealed plastic bags
- Suitable for overhead non-tension jumpers in commercial and industrial installations
 - **Suitable for AAC, AAAC, ACSR**
- Use hexagonal or ident type of crimps
 - Centre barrier included



| CAT NO. | CONDUCTOR RANGE O.D. mm | CRIMPS PER END SERIES 5 | CRIMPS PER END SERIES 6 | LENGTH A mm | NOMINAL O.D. |
|---------|-------------------------|-------------------------|-------------------------|-------------|--------------|
| +JS36R | 6-8 | 4 | 2 | 127 | 16.5 |
| JS44R | 8-10 | 4 | 2 | 165 | 20.6 |
| JS50R | 10-12 | 6 | 3 | 165 | 20.6 |
| +JS58R | 12-13.5 | 8 | 4 | 205 | 22.2 |
| +JS61R | 13-14.5 | – | 4 | 205 | 25.4 |
| JS68R | 14-16 | – | 4 | 205 | 25.4 |
| JS80R | 16.5-19.5 | – | 4 | 205 | 30.1 |
| JS94R | 20-23.5 | – | – | 205 | 35 |

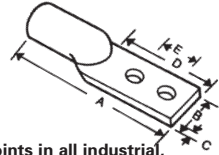
Refer Appendix A (Section 10/Page 109) for full list of cables and applicable product and crimp dies.

† Made to approved order quantities only.



TERMINAL LUGS – TYPE AL

- Extruded aluminium tube
- Pre-filled with jointing compound
- Individually packed in plastic bags
- Designed for compression by hexagonal or indent type tools
- Available also with blank palms
- ACSR, AAAC and AAC conventional and smooth body
- Suitable for non tension joints in all industrial, overhead transmission application
- Two hole connection ensure stability



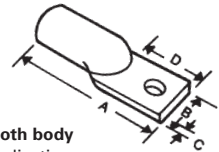
| CAT NO. | CONDUCTOR RANGE O.D. | IMP. STUD SIZE | A | B | C | D | HOLE CTS.E |
|---------|----------------------|----------------|-------|------|-----|------|------------|
| AL36 | 6-8 | 0.5 | 129 | 25 | 6 | 82.5 | 44.5 |
| AL44 | 8-10 | 0.5 | 136.5 | 27.3 | 8.8 | 82.5 | 44.5 |
| AL50 | 10-12 | 0.5 | 136.5 | 27.8 | 7.9 | 82.5 | 44.5 |
| AL58 | 12-13.5 | 0.5 | 146.0 | 31.7 | 7.5 | 82.5 | 44.5 |
| AL61 | 13-14.5 | 0.5 | 149.0 | 34.9 | 9.9 | 82.5 | 44.5 |
| AL68 | 14-16 | 0.5 | 176.0 | 34.9 | 9.9 | 82.5 | 44.5 |
| AL80 | 16.5-19.5 | 0.5 | 169.9 | 41.3 | 9.9 | 82.5 | 44.5 |
| AL94 | 20-23.5 | 0.5 | 176 | 34.9 | 9.9 | 82.5 | 44.5 |

Refer Appendix A (Section 10/Page 109) for full list of cables and applicable product and crimp dies.



TERMINAL LUGS – TYPE SL

- Extruded aluminium tube
- Pre-filled with jointing compound
- Individually packed in plastic bags
- Designed for compression by hexagonal or indent type tools
- Available also with blank palms
- Recommended conductor ACSR, AAAC or AAC – conventional and smooth body
- Suitable for non tension joints in all industrial, overhead transmission applications



| CAT NO. | CONDUCTOR RANGE O.D. | IMP. STUD SIZE | A | B | C | D |
|---------|----------------------|----------------|-------|------|-----|------|
| SL36 | 6-8 | 0.5 | 81.0 | 22.2 | 7.4 | 38.1 |
| SL44 | 8-10 | 0.375 | 90.0 | 27.0 | 9.0 | 38.1 |
| SL50 | 10-12 | 0.5 | 92.1 | 27.8 | 7.9 | 38.1 |
| SL58 | 12-13.5 | 0.5 | 101.6 | 31.8 | 7.5 | 38.1 |
| SL61 | 13-14.5 | 0.5 | 104.8 | 34.9 | 9.9 | 38.1 |
| SL68 | 14-16 | 0.5 | 131.5 | 34.9 | 8.4 | 38.1 |
| SL80 | 16.5-19.5 | 0.5 | 125.4 | 41.3 | 9.9 | 38.1 |

Refer Appendix A (Section 10/Page 109) for full list of cables and applicable product and crimp dies.
Made to minimum order only



ELECTRICAL JOINTING COMPOUND

- Recommended whenever aluminium is part of a connection
- H2397 with zinc particles suspended in a no melt grease penetrates the oxide film on aluminium surfaces and provides low initial contact resistance
 - The compound in the joint seals out air and moisture preventing oxidation or corrosion and ensures high conductivity

| CAT NO. | NO. | APPLICATION | PART | COLOUR | TUBE SIZE |
|---------|-----|---|------|---------|-----------|
| H2397 | 4C | Conductive compound with zinc particles | Zn | KD Grey | 250g |

CONNECTORS FOR STRANDED COPPER CONDUCTORS - IMPERIAL & METRIC



- Connector Material – copper, metal sprayed internally • Superior tensile strength
• Considerable reduction in mass of finished joint
• Elimination of corrosion



IMPERIAL

| CAT NO. | STRANDING IMPERIAL | CONDUCTOR DIMENSIONS O.D. mm | LENGTH mm | CRIMP GROOVE SIZE mm | REC. TOOL TYPE | CRIMPS PER CONNECTOR |
|---------|-----------------------|---------------------------------|-----------|-------------------------|-------------------|-------------------------|
| TDCS1 | 7/.044 | 6.35 | 38 | 6.35 | #TY | 4 |
| TDCS2 | 7/.048 | 6.35 | 38 | 6.35 | #TY | 4 |
| TECS1 | 7/.052 | 7.94 | 64 | 7.94 | #TY | 8 |
| TECS2 | 7/.064 | 7.94 | 64 | 7.94 | #TY | 8 |
| TFCS1 | 7/.080 | 9.52 | 76 | 9.52 | #TR | 8 |
| TFCS2 | 19/.052 | 9.52 | 76 | 9.52 | #TR | 8 |
| TFCS3 | 7/.083 | 9.52 | 76 | 9.52 | #TR | 8 |
| TFCS4 | 7/.092 | 9.52 | 76 | 9.52 | #TR | 8 |
| TGCS1 | 7/.097 | 12.70 | 89 | 12.70 | #TR | 10 |
| TGCS2 | 7/.104 | 12.70 | 89 | 12.70 | #TR | 10 |
| TGCS3 | 19/.064 | 12.70 | 89 | 12.70 | #TR | 10 |
| THCS1 | 7/.136 | 15.88 | 127 | 15.88 | #TR | 14 |
| THCS2 | 19/.083 | 15.88 | 127 | 15.88 | #TR | 14 |
| TJCS1 | 19/.101 | 22.22 | 203 | 19.25 | 38-193CU | 8 |
| TJCS2 | 37/.072 | 22.22 | 203 | 19.25 | 38-193CU | 8 |
| TKCS1 | 19/.116 | 25.40 | 229 | 22.00 | 38-220CU | 10 |
| TKCS2 | 37/.083 | 25.40 | 254 | 22.00 | 38-220CU | 12 |
| TKCS3 | 37/.093 | 25.40 | 254 | 22.00 | 38-220CU | 12 |
| TMCS1 | 37/.103 | 28.57 | 305 | 24.74 | 38-247CU | 14 |

5

METRIC

| CAT NO. | STRANDING METRIC | CONDUCTOR DIMENSIONS O.D. mm | LENGTH mm | CRIMP GROOVE SIZE mm | REC. TOOL TYPE | CRIMPS PER CONNECTOR |
|---------|---------------------|---------------------------------|-----------|-------------------------|-------------------|-------------------------|
| TDCSM1 | 7/1.00 | 6.35 | 38 | 6.35 | #TY | 4 |
| TDCSM2 | 7/1.04 | 6.35 | 38 | 6.35 | #TY | 4 |
| TDCSM3 | 7/1.25 | 6.35 | 38 | 6.35 | #TY | 4 |
| TECSM1 | 7/1.35 | 7.94 | 64 | 7.94 | #TY | 8 |
| TECSM2 | 7/1.70 | 7.94 | 64 | 7.94 | #TY | 8 |
| TECSM3 | 7/1.75 | 7.94 | 76 | 7.94 | #T7 | 8 |
| TFCSM1 | 7/2.14 | 9.52 | 76 | 9.52 | #TR | 8 |
| TFCSM2 | 19/1.35 | 9.52 | 76 | 9.52 | #TR | 8 |
| TGCSM1 | 7/2.75 | 12.70 | 89 | 12.70 | #TR | 10 |
| TGCSM2 | 19/1.53 | 12.70 | 89 | 12.70 | #TR | 10 |
| TGCSM3 | 19/1.70 | 12.70 | 89 | 12.70 | #TR | 10 |
| THCSM1 | 7/3.50 | 15.88 | 127 | 15.88 | #TR | 14 |
| THCSM2 | 19/1.78 | 15.88 | 127 | 15.88 | #TR | 14 |
| THCSM3 | 19/2.14 | 15.88 | 127 | 15.88 | #TR | 14 |
| TJCSM2 | 19/2.70 | 22.22 | 203 | – | 38-193CU | 8 |

#TY SERIES CRIMPING TOOL

LENGTH 381mm • WEIGHT 1.16kg

Available in various crimp groove size combinations. The complete range is adjustable and robust.
All models are supplied complete with adjusting key and G0-No Go gauge to ensure a perfect crimp every time.



| CAT NO. | CRIMP GROOVE SIZES mm |
|-----------|-----------------------|
| #TY476556 | 4.76 and 5.56 |
| #TY476635 | 4.76 and 6.35 |
| #TY556635 | 5.56 and 6.35 |
| #TY635794 | 6.35 and 7.94 |

#TR SERIES CRIMPING TOOL

LENGTH 534mm • WEIGHT 2.7kg

This Crimping Tool is available in various crimp groove size combinations. The complete range is adjustable and robust.
All models are supplied complete with adjusting key and Go-No Go gauge to ensure a perfect crimp every time.



| CAT NO. | CRIMP GROOVE SIZES mm |
|------------|-----------------------|
| #TR9521270 | 9.52 and 12.70 |
| #TR794952 | 7.94 and 9.52 |
| #TR1588 | 15.88 (single groove) |

#38A HYDRAULIC CRIMPING TOOL

LENGTH 580mm • WEIGHT 5.8g

Designed to accept hexagonal, circular and indent dies for applying compression connectors. The compression head will rotate through 180° arc. The body and handles of the tool are neoprene covered to provide mechanical protection.













| SLEEVE | DIE NO. |
|--------|----------|
| #TD | 38-44CU |
| #TE | 38-63CU |
| #TF | 38-77CU |
| #TG | 38-104CU |
| #TH | 38-130CU |
| #TJ | 38-193CU |
| #TK | 38-220CU |
| #TM | 38-247CU |

SECTION 6

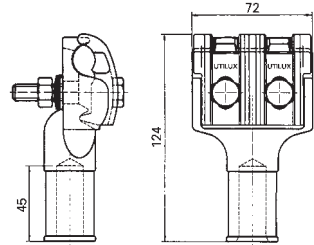
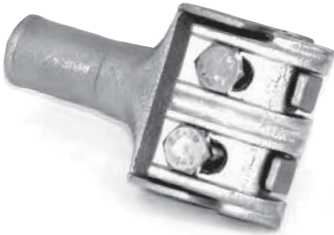
OVERHEAD BOLTED CONNECTORS

Bolted overhead fittings are versatile in several ways. Their basic design offers a range taking capability, no special tooling is required to effect a reliable connection, and each fitting may be re-used without loss of efficiency. A variety of hardware is available, including galvanised steel bolts and nuts as standard equipment.

| CONNECTORS | STYLE | CONDUCTOR RANGE | PAGE |
|---|--------------------------------|-----------------------|------|
|  | GP Overhead Line Tap | 6-19mm | 52 |
|  | Disconnect Tee Clamp | 7-19mm | 52 |
|  | Service Connector | 15mm | 53 |
|  | Line Stirrup Clamp | 6-19mm | 53 |
|  | Parallel Groove Connector | 12-19mm | 54 |
|  | Bi-Metal PG Clamp | 2.7-21.0mm | 54 |
|  | Aluminium PG Clamp Double Bolt | 5.1-20.2mm | 55 |
|  | Copper PG Clamp Single Bolt | 1.8-9.0mm | 55 |
|  | Copper PG Clamp Double Bolt | 1.8-15.7mm | 55 |
|  | Split Bolt Connector | 16-185mm ² | 56 |
| | Electrical Jointing Compound | Light Brown | 53 |

GENERAL PURPOSE OVERHEAD LINE TAP CONNECTOR

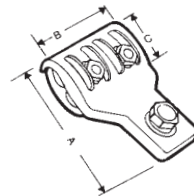
- General purpose for bare overhead conductors applications where tap is required to carry full line current
 - Combined bolted and compression connection technology
 - Special aluminium alloy body for strength and ductility
 - Integral belleville washers • Stainless Steel fasteners
- Captive nut • Contact Surfaces pre-coated with Utilux No.3G jointing compound



| CAT NO. | DESCRIPTION | LINE CONDUCTOR RANGE (COND. OD) | Ø I.D. (XXY) |
|---------|--------------------|------------------------------------|--|
| LTGSXXY | Line Tap Connector | 6-19mm | Bore dimension Ø ID eg. for a bore of 17.5mm, xxy = 175 |

DISCONNECT TEE CLAMP

- All aluminium • Accepts Aluminium single hole crimp lugs



| CAT NO. | CONDUCTOR RANGE O.D. | DIMENSIONS mm | | | BOLT DIA. | SET SCREW |
|---------|-------------------------|---------------|---|---|--------------|--------------|
| TCDA19 | 7-19 | A | B | C | M10 x 50 | M12 X 40 |

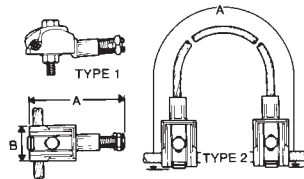
Made to minimum order only

SERVICE CONNECTOR

- Cast high strength aluminium alloy connector identified with Catalogue No. and cable range
- Available in two configurations

TYPE 1. Tinned split bolt clamp compression crimped into connector body for direct service connection

TYPE 2. Two connectors joined by a customer nominated length of tinned 7/104 (imperial) copper conductor (Standard is 254mm) • Available with stainless steel hardware on application

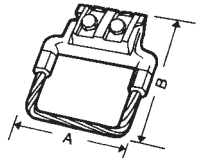


| BT SERIES | CAT NO. | | CONDUCTOR RANGE O.D. | | DIMENSIONS mm | | BOLT DIA |
|-----------|--------------|--|----------------------|-----|---------------|------|----------|
| | BT-PP SERIES | | MAIN | TAP | A | B | |
| *BT2-1 | BT2-1PP | | 15 | 6 | 111.1 | 40.5 | M10 X 50 |
| BT2-2 | BT2-2PP | | 15 | – | 412.8 | 40.5 | M10 X 50 |

*Accepts 6mm OD cable from 1 to 3 times
BT-PP series contain grease

LINE STIRRUP CLAMP

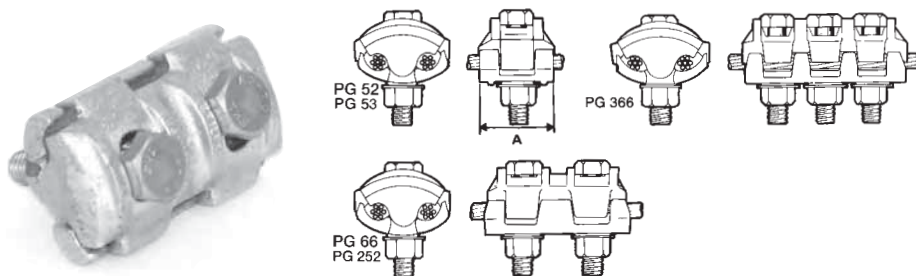
- Cast high strength aluminium alloy, heat treated
 - Individually packed in plastic bags and identified with Catalogue No. and cable range
 - Tinned stranded copper stirrup is compression crimped into the connector body
 - Incorporates anodised aluminium nuts and bolts
 - Bolts are located in retaining channels to prevent slip during installation
 - Features the combination of a parallel groove clamp and a line stirrup clamp, enabling copper taps to be made at bridging locations.
- Application – connection of copper conductors to aluminium mains
- LS-PP Series pre-packed with jointing compound
 - LS-PPSS Series pre-packed with jointing compound and with Stainless Steel hardware



| LS SERIES | CAT NO. | | CONDUCTOR RANGE O.D. MAIN AL OR ACSR | DIMENSIONS mm | | BOLT DIA |
|-----------|--------------|----------------|---|---------------|-------|----------|
| | LS-PP SERIES | LS-PPSS SERIES | | A | B | |
| LS01 | LS01PP | LS01PPSS | 6-19 | 76.2 | 146.1 | M10 x 50 |
| LS02 | LS02PP | LS02PPSS | 6-19 | 120.7 | 146.1 | M10 x 50 |

PARALLEL GROOVE CONNECTORS

- Cast high strength aluminium alloy, heat treated
- Individually packed in plastic bags and identified with Catalogue No. and cable range
- Anodised aluminium nuts and bolts of sufficient length to allow installation without disassembling connector
 - Bolts are located in retaining channels to prevent slip during installation
 - Suitable for the following conductors: ACSR, AAC – conventional or smooth body
- Designed specifically for overhead power line applications
 - PG-PP Series pre-packed with jointing compound
 - Stainless steel, electro-tinned or galvanised bolts available for approved minimum order quantities



| PG SERIES | CAT NO. PG-PP SERIES | NO. BOLTS | CONDUCTOR O.D. MAIN (MAX O.D.) | CONDUCTOR O.D. TAP (MIN O.D.) | LENGTH A mm | BOLT |
|-----------|-------------------------|--------------|-----------------------------------|----------------------------------|----------------|----------|
| PG52 | PG52PP | 1 | 12 | 3 | 37 | M10 x 50 |
| PG53 | PG53PP | 1 | 19 | 9 | 55 | M12 x 65 |
| PG66 | PG66PP | 2 | 19 | 9 | 92 | M12 x 65 |
| PG252 | PG252PP | 2 | 12 | 3 | 72 | M10 x 50 |
| PG366 | PG366PP | 3 | 19 | 9 | 111 | M12 x 65 |

BI-METAL PG CLAMPS – DOUBLE & TRIPLE BOLT

- For aluminium main conductors and copper tap-off conductors
- Pressure pad, hex. head screws and nuts
- Clamp body and pressure pad is made of high strength aluminium alloy with compressed bi-metallic sheet for copper tap-off
 - Screws: DIN 933 – Steel, grade 8.8 hot-dip galvanised
 - Nuts: DIN 934 – Steel, grade 8, hot-dip galvanised



| CAT NO. | CONDUCTOR CROSS SECTION ALUMINIUM mm² | COPPER mm² | CONDUCTOR RANGE O.D. ALUMINIUM mm² | COPPER mm² | LENGTH A mm | BOLT |
|---------|--|------------|---------------------------------------|--------------|----------------|--------------|
| WG3909 | 16-70 | 6-50 | 5.1 to 11.7 | 2.7 to 9.0 | 40 | 2 x M8 x 40 |
| WG3911 | 12-150 | 10-95 | 6.3 to 15.7 | 4.1 to 12.5 | 49 | 2 x M8 x 45 |
| WG3913 | 35-185 | 35-185 | 7.5 to 17.5 | 7.5 to 17.5 | 65 | 2 x M10 x 60 |
| WG3915 | 95-240 | 70-185 | 12.5 to 21.0 | 10.5 to 17.6 | 105 | 3 x M10 x 60 |

SPLIT BOLT CONNECTORS

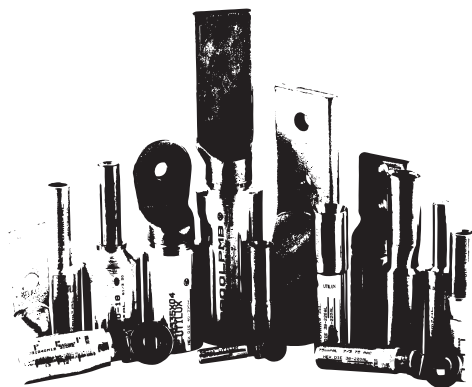
- For tapping or joining aerial hard drawn or insulated copper conductors
- Made from hard grade, high conductivity brass
- Captive saddle applies distributed pressure to conductors to ESAA specifications



| NATURAL BRASS | CAT NO. | ESSA TYPE | MAX CONDUCTOR SIZE AREA mm ² | OVERALL DIA. | SLOT WIDTH mm |
|---------------|----------------|--------------|--|--------------|------------------|
| | ELECTRO TINNED | | | | |
| SB22 | SB22ET | A | 16 | 5.10 | 5.3 |
| SB24 | SB24ET | B | 35 | 7.65 | 8.3 |
| SB25 | SB25ET | C | 70 | 10.70 | 10.9 |
| SB26 | SB26ET | D | 95 | 12.90 | 12.9 |
| SB28 | SB28ET | E | 185 | 18.50 | 18.5 |

Utilux Custom Connectors

48 HOURS



Applicable to non-catalogue items only.
Lead time subject to prompt customer sign off.

- ✓ **Ordered**
- using UCC request form
- ✓ **Manufactured**
- to your specification
- ✓ **Dispatched**
- sent express

TE ENERGY
connectivity

SECTION 7




TERMINAL BLOCKS

Utilux melamine rail mounted terminal blocks offer space saving ease of assembly and efficient termination of conductor sizes from .5mm² to 35mm² and can be used with bare conductors, pin connectors and lip blade connectors. Rail mounted blocks offer compact space saving advantages as the 7mm or 10mm wide blocks allow each circuit to be confined to that width.

Using any of the range of spring assisted blocks with matching lip blade terminals provides a complete, safe, secure and efficient termination. The Utilux range of components allows bridging of adjacent blocks, partitioning, locking of blocks to rail and marker tags for circuit identification.

Manufactured from melamine material Utilux rail mounted terminal blocks meet a number of overseas specifications and are used and approved by electricity authorities.

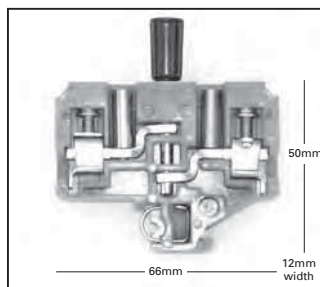
Terminal blocks assembled onto rail and complete with all accessories are available on request.

| TERMINAL BLOCKS | STYLE | CONDUCTOR SIZE | PAGE |
|---|--|-----------------------|------|
|  | Standard Rail Mounted | 0.5-10mm ² | 58 |
|  | Standard Rail Mounted | 0.5-12mm ² | 59 |
|  | Stud Type Rail Mounted | - | 60 |
| FIXED SCREW TERMINALS | STYLE | TYPES | PAGE |
| | Fixed Screw Terminal Blocks | 4-6 way | 61 |
| | 12 Way Terminal Strip | | 61 |
| QUICK CONNECT TERMINALS | STYLE | | PAGE |
| | TB Series 20 amp block | | 62 |
| ORDERING GUIDE | | | PAGE |
| | Terminal Configurations & Ordering Guide | | 62 |










STANDARD RANGE RAIL MOUNTED TERMINAL BLOCKS

- Manufactured in melamine • Standard colour orange
- Higher current ratings may be obtained at lower ambients

|  | CAT. NO. | RATED AT 600V AC | CONDUCTOR SIZE mm ² |
|--|----------|---------------------|-----------------------------------|
| | H2608 | 25 amps | 0.5-10 |

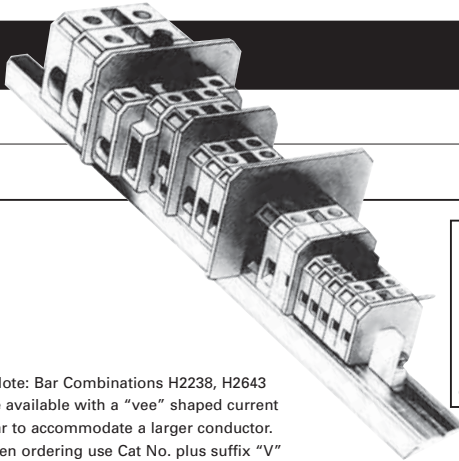


CATALOGUE NO. H2608 Metering Block

| ACCESSORIES | | CAT. NO. |
|--|---|---------------------|
| Standard End Plate (melamine) |  | H2609 |
| Partition |  | H3865 |
| End Clamp (Nylon) |  | H2232 |
| 460mm Mounting Rail |  | H2233 |
| 1 metre Mounting Rail |  | H2233A |
| 1 metre Locking Pin |  | H2234A |
| *Bridging Link |  | H2633 |
| *Bridging Link H2633 supplied in either 2 holes or 10 holes. Specify Cat. No. H2633-2 or H2633-10, | | |
| Disconnect Plug |  | H2650 |
| Lip Blade Terminal |  | H4207, H4208, H4209 |

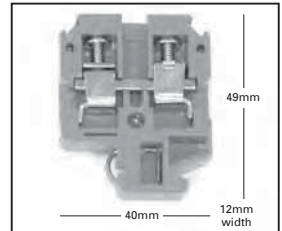
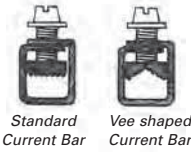
STANDARD RANGE RAIL MOUNTED TERMINAL BLOCKS

- Manufactured in melamine
- Standard colour orange
- Higher current ratings may be obtained at lower ambients










|  | CAT. NO. | RATED AT 600V AC | CONDUCTOR SIZE mm ² |
|---|----------|---------------------|-----------------------------------|
| | H2238 | 48 amps | 0.5-10 |
| | H2238V | 65amps | 2.5-12 |

Note: Bar Combinations H2238, H2643 are available with a "vee" shaped current bar to accommodate a larger conductor. When ordering use Cat No. plus suffix "V" eg. H2238V, H2643V

BAR COMBINATIONS



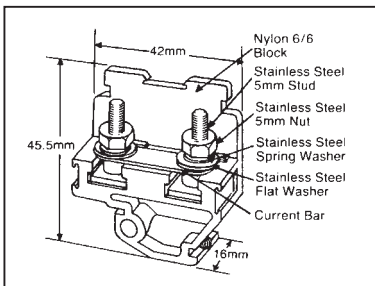
CATALOGUE NO. H2238, H2238V Vee shaped current bar

| ACCESSORIES | | CAT. NO. |
|-------------------------------|---|---------------------|
| Standard End Plate (melamine) |  | H2239 |
| Partition |  | H3863 |
| End Clamp (Nylon) |  | H2232 |
| 460mm Mounting Rail |  | H2233 |
| 1 metre Mounting Rail |  | H2233A |
| 1 metre Locking Pin |  | H2234A |
| Link support and screw |  | H2236M |
| Bridging Link |  | H2631 |
| Lip Blade Terminal |  | H4207, H4208, H4209 |



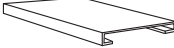






STUD TYPE RAIL MOUNTED TERMINAL BLOCKS

- A more permanent connection free from loose connections caused by vibration
- Being a fixed stud, eye or slotted terminals can be used on wiring to ensure a more positive connection
- Voltage – 500V max. conductor 7/1.70mm copper

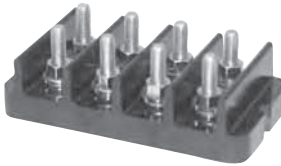
| | CAT. NO. | RATED AT 600V AC |
|--|----------|---------------------|
|  | H3820 | 30 amps |



CATALOGUE NO. H3820, Nylon 6/6 120°C, Hardware: Stainless Steel

| ACCESSORIES | | CAT. NO. |
|----------------------------|---|----------|
| End Plate |  | H3821 |
| Partition |  | H3868 |
| Cover (standard length 2m) |  | H3822 |
| Marker Strip |  | H3823 |
| Bridging Link |  | H3824P |
| 1 metre Locking Pin |  | H2234A |
| 460mm Mounting Rail |  | H2233 |
| 1 metre Mounting Rail |  | H2233A |
| Nylon End Clamp |  | H2232 |

FIXED SCREW TERMINAL BLOCKS & ACCESSORIES



H2502 4 WAY (120 L X 45 W)



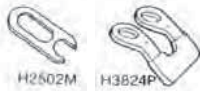
H2501 6 WAY (120 L X 45 W)

H2511 4 WAY (86 L X 45 W)

Links



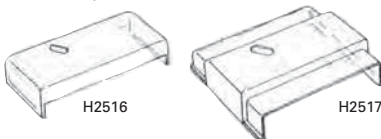
Bridging Link



Cover Securing Nut



Clear Polycarbonate Covers



| TERMINAL BLOCK | TYPE | COMPLETE WITH | AMP RATING AT 600V AC | LINKS | CLEAR POLY. COVER | COVER SECURING NUT |
|----------------|-------|--|-----------------------|----------------|-------------------|--------------------|
| H2501N | 6 way | Brass N/P 5mm studs,nuts, spring & flat washers, H2501M slotted link | 80 | H2501M Slotted | H2516 H2517 | H2509 H2509 |
| H2501EN/1 | 6 way | Brass N/P 5mm studs,nuts, spring & flat washers, H2501L solid link | 80 | H2501L solid | H2516 H2517 | H2509 H2509 |
| H2502 | 4 way | Brass N/P 6mm studs,nuts, spring & flat washers, H2502L solid link | 80 | H2502L solid | H2516 H2517 | H2508 H2508 |
| H2502E | 4 way | Brass N/P 6mm studs,nuts, spring & flat washers, H2502M slotted link | 80 | H2502M slotted | H2516 H2517 | H2508 H2508 |
| H2511N | 4 way | Brass N/P 5mm studs,nuts, spring & flat washers, H2501L solid link | 80 | H2501L solid | - | - |

7

12 WAY TERMINAL STRIP

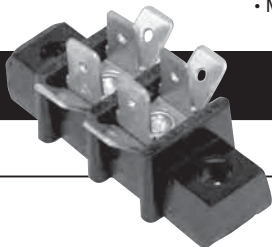
- Melamine body
- Phosphor bronze wire protector to prevent clamping screw from pinching the conductor
- Clamping contact is vibration proof
- May be cut to desired length



H2519
LENGTH 133mm

QUICK CONNECT TERMINAL BLOCKS

- Available in 1 to 17 stations (including mounting holes) • QC male outlets to clients specifications
- Mounting holes 4.8mm dia, hole centres are 11.1mm apart • Economical, convenient, safe and simple
 - Special blocks can be made to suit individual requirements
 - Used by all leading Domestic Appliance Manufacturers
 - Manufactured to Australian standards


CAT. NO.
**RATED AT
240V AC**

TB SERIES

20 amps

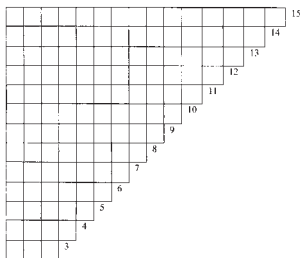
TERMINAL CONFIGURATIONS & ORDERING GUIDE

- All parts rated 20 amps screwed connections • Active (A), Neutral (N), Earth (E), engraving available
- Plating is an optional extra • All tabs suit 6.3mm receptacles • Specify terminal style required by using table shown


 CUSTOMER.....



"NOT TO SCALE"


















ORDERING PROCEDURE:

1. SELECT THE ROW SHOWING THE NUMBER OF HOLES YOU REQUIRE ON THE MOUNTINGS.
2. WRITE INTO EACH SQUARE THE TAB TYPE OR FIXING HOLE REQUIRED. e.g. A, C, X etc.
3. A TYPICAL 4 WAY 6 HOLE BLOCK WOULD LOOK LIKE THIS.

| | | | | | |
|---|---|---|---|---|---|
| | | • | | • | |
| X | A | H | J | N | X |
| | | A | N | E | |

4. MARK • INDICATES POSITION OF SCREW
5. PLEASE MARK SCREW TERMINAL A, N, E OR P (active, neutral, earth or phase) IN SQUARE IF REQUIRED.
6. OTHER TAB VARIATIONS AVAILABLE ON APPLICATION.

PART NO. _____

| | |
|--------|---|
| Z |  |
| B |  |
| C |  |
| D |  |
| E |  |
| CZ |  |
| F |  |
| G |  |
| H |  |
| U |  |
| I |  |
| J |  |
| K |  |
| N |  |
| Bridge |  |
| X | Fixing Hole |

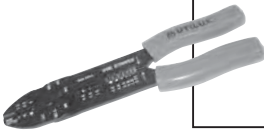
SECTION 8

APPLICATION TOOLING

| TOOLS | PAGE |
|---|-------|
| Economy Range Hand Crimp Tools | 64-65 |
| Professional Range Crimp Tools | 66-67 |
| Heavy Duty Hand Operated Hydraulic Crimp Tools | 68-69 |
| Heavy Duty Battery Operated Hydraulic Crimp Tools | 70-71 |
| Accessories for Battery Powered Tools | 72 |
| Heavy Duty Hydraulic Crimping Heads | 73-75 |
| Hydraulic Pumps & Controllers | 76-77 |
| Hand Cable Cutters | 78 |
| Battery Operated Cable Cutters | 79 |
| Hydraulic Cable Cutters | 80-81 |
| Cable Strippers | 82-83 |
| Crimping Dies | 84-88 |
| TY & TR Series Crimping Tools | 88 |

ECONOMY RANGE CRIMP TOOLS

A range of high quality, but economically priced hand crimp tools ideal for the occasional professional user or serious hobbyist. These easy to use precision engineered tools produce a first class job and offer the user great value for money.



| CAT NO. | DESCRIPTION |
|-------------|---|
| #76B | <p>Non ratchet pliers for pre-insulated and uninsulated terminals. Includes wire cutting and stripping positions.</p> <p>RANGE..... 0.5mm² to 4.0mm²</p> <p>CRIMP TYPE..... Pre-insulated – Oval; Uninsulated – Indent</p> <p>LENGTH..... 203mm</p> <p>WEIGHT..... 250g</p> |



| CAT NO. | DESCRIPTION |
|------------|--|
| #61 | <p>Non ratchet pliers for open barrel, roll in crimp type terminals such as H1972. Features a built in wire stripper and cutter.</p> <p>RANGE..... 0.75mm² to 2.1mm²</p> <p>CRIMP TYPE..... Roll-in for open barrel terminals</p> <p>LENGTH..... 210mm</p> <p>WEIGHT..... 230g</p> |



| CAT NO. | DESCRIPTION |
|--------------|--|
| #147A | <p>Non ratchet pliers for micro and flag QC open barrel terminals. Features a built in wire stripper and cutter.</p> <p>CRIMP TYPE..... Roll-in for open barrel terminals</p> <p>LENGTH..... 210mm</p> <p>WEIGHT..... 230g</p> |



| CAT NO. | DESCRIPTION |
|------------|--|
| #00 | <p>General purpose pliers for uninsulated copper lugs and links. Simple and robust. A must for every tradesman.</p> <p>RANGE..... 0.5mm² to 10.0mm²</p> <p>CRIMP TYPE..... Indent</p> <p>LENGTH..... 254mm</p> <p>WEIGHT..... 450g</p> |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #102 | <p>Ratchet type tool for pre-insulated and supergrip terminals. The ratchet ensures a complete crimp every time. A must have tool for every tradesman.</p> <p>RANGE..... Red, Blue and Yellow pre-insulated (0.5 to 5.5mm²)</p> <p>CRIMP TYPE..... Oval on conductor/Diamond on insulation</p> <p>LENGTH..... 230mm</p> <p>WEIGHT..... 550g</p> |



| CAT NO. | DESCRIPTION |
|---------|---|
| #102U | Ratchet type tool for uninsulated terminals. The ratchet ensures a complete crimp every time. A must have tool for every tradesman. RANGE..... 0.5mm ² to 8.0mm ² CRIMP TYPE..... Indent LENGTH..... 230mm WEIGHT..... 550g |



| CAT NO. | DESCRIPTION |
|---------|---|
| #103 | Ergonomically designed ratchet type tool for uninsulated copper lugs and links. The ratchet ensures a complete crimp every time. RANGE..... 0.2mm ² to 16mm ² CRIMP TYPE..... Indent LENGTH..... 230mm WEIGHT..... 550g |



| CAT NO. | DESCRIPTION |
|---------|---|
| #112 | Ratchet type tool for boot lace terminals. The ratchet ensures a complete crimp every time. A must have tool for every tradesman. RANGE..... 0.5mm ² to 10mm ² CRIMP TYPE..... U LENGTH..... 230mm WEIGHT..... 550g |

| JAW NO. | CABLE (mm ²) |
|---------|--------------------------|
| 1 | 0.5 to 0.75 |
| 2 | 1.0 |
| 3 | 1.5 |
| 4 | 2.5 |
| 5 | 4 to 6 |
| 6 | 10 |



| CAT NO. | DESCRIPTION |
|---------|---|
| #113 | Non ratchet pliers for boot lace ferrules. Simple and robust. RANGE..... 0.5mm ² to 2.5mm ² CRIMP TYPE..... Indent LENGTH..... 145mm WEIGHT..... 200g |



| CAT NO. | DESCRIPTION |
|---------|---|
| #114 | Ergonomically designed ratchet type tool for boot lace ferrules. The ratchet ensures a complete crimp every time. RANGE..... 10mm ² to 35mm ² CRIMP TYPE..... Indent LENGTH..... 240mm WEIGHT..... 650g |



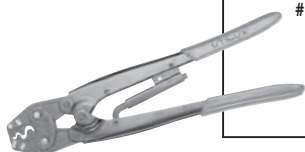
| CAT NO. | DESCRIPTION |
|---------|--|
| #117 | Ratchet type tool for large bootlace ferrules. RANGE..... 25mm ² to 50mm ² CRIMP TYPE..... Indent LENGTH..... 280mm WEIGHT..... 700g |

PROFESSIONAL RANGE CRIMP TOOLS

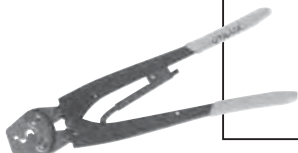
Built to last, these tools are ideal for the professional or specialist. The precision crafted mechanisms and uncompromised material quality of these tools will ensure years of trouble free operation, and results you can depend on.



| CAT NO. | DESCRIPTION |
|--|--|
| #63 | <p>Bench mounted air operated crimp tool with interchangeable crimp jaws for a range of applications. Includes foot operated controller and pneumatic hoses. Five interchangeable crimp jaws.</p> <p>RANGE..... Up to 6mm² terminals</p> <p>CRIMP TYPE..... Depends on jaws selected</p> <p>INPUT..... 490kPa air</p> <p>OUTPUT..... 1.3 tons</p> <p>WEIGHT 2kg</p> |
| Interchangeable Jaws for #63 bench mounted crimper | <p>#4BJAWS/1..... For RED pre-insulated terminals</p> <p>#4UJAWS/1 For BLUE pre-insulated terminals</p> <p>#5UJAWS/1 For YELLOW pre-insulated terminals</p> <p>#1JAWS/1 For uninsulated lugs and links 1.5 to 6.0mm²</p> <p>#7JAWS/1 For closed end connectors 0.5 to 6.0mm²</p> <p>Custom made jaws available on request.</p> |



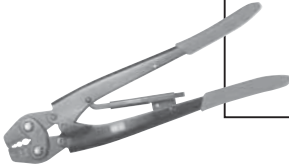
| CAT NO. | DESCRIPTION |
|-------------|--|
| #16B | <p>Ratchet type tool for uninsulated copper lugs (CG series). The long handles require less crimping effort.</p> <p>RANGE..... 0.5 to 10mm²</p> <p>CRIMP TYPE Indent</p> <p>LENGTH 250mm</p> <p>WEIGHT 700g</p> |



| CAT NO. | DESCRIPTION |
|------------|--|
| #18 | <p>Ratchet type tool for uninsulated copper lugs (CG series). The long handles require less crimping effort.</p> <p>RANGE..... 5 to 16mm²</p> <p>CRIMP TYPE Indent</p> <p>LENGTH 330mm</p> <p>WEIGHT 700g</p> |



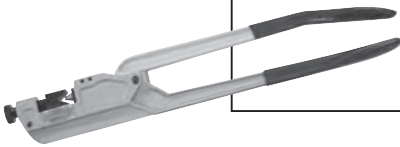
| CAT NO. | DESCRIPTION |
|------------|---|
| #24 | <p>Ratchet type tool for uninsulated copper lugs and links.</p> <p>RANGE..... 6 to 25mm²</p> <p>CRIMP TYPE Indent</p> <p>LENGTH 285mm</p> <p>WEIGHT 550g</p> |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #28A | Ratchet type tool for Utilux closed end connectors. RANGE..... 2.5 - 10mm ² CRIMP TYPE Oval LENGTH..... 320mm WEIGHT 600g |



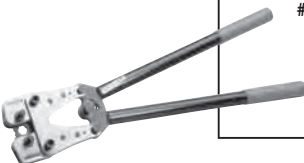
| CAT NO. | DESCRIPTION |
|------------|---|
| #17 | Ratchet type tool for crimping open barrel type terminals RANGE..... 0.7 to 2.1mm ² CRIMP TYPE Roll in LENGTH..... 280mm WEIGHT 600g |



| CAT NO. | DESCRIPTION |
|------------|--|
| #20 | Mechanical crimper for copper lugs and links. Dial adjustable crimp depth with cable size indicator. RANGE..... 10mm ² to 95mm ² CRIMP TYPE Indent, depth adjustable LENGTH..... 410mm WEIGHT 3.05kg |



| CAT NO. | DESCRIPTION |
|------------|---|
| #21 | Hand operated, mechanical lever tool for copper lugs and links. Features built in, selectable crimp die set for a range of lug and link sizes. RANGE..... 6mm ² to 50mm ² CRIMP TYPE Hexagonal LENGTH..... 410mm WEIGHT 1.4kg |



| CAT NO. | DESCRIPTION |
|------------|--|
| #22 | Hand operated, mechanical lever tool for copper lugs and links. Features built in, selectable crimp die set for a range of lug and link sizes. RANGE..... 6mm ² to 120mm ² CRIMP TYPE Hexagonal LENGTH..... 670mm WEIGHT 3.9kg |

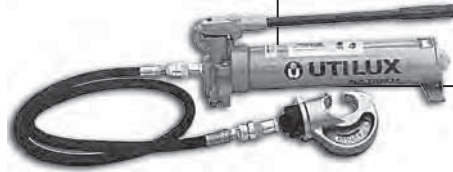


HEAVY DUTY HAND OPERATED HYDRAULIC CRIMP TOOLS

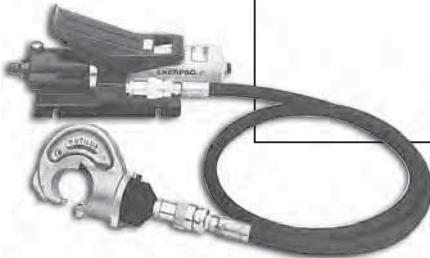
The precision engineered hydraulic components used in these tools set the standard which others strive to achieve, and the user benefits from faster crimp times, less handle effort, easier maintenance, longer tool life and more dependable results.

The two stage pumping mechanism in selected products means the ram advances quickly up to the connector, then slows as the hydraulic effort is translated into crimping force. Automatic by-pass valves, provide positive feedback to the user when the tool has reached its rated output, and the crimp is complete.

| CAT NO. | DESCRIPTION |
|---|--|
| <div>#38C</div> <div>NEW</div> <div></div> | <p>Robust and built to last, the #38C sets the standard for other 12t hydraulic tools.</p> <p>Precision engineering hydraulic components for maximum reliability, maintenance and ease of use. Accepts all Utilux #38 Series crimp dies for full hexagonal or indent crimping of copper or aluminium connectors/ terminations.</p> <p>FEATURES..... 2 stage action, Large crimp range; 6 - 300mm², 32mm throat size, 180° head rotation, Reinforced glass fibre handles.</p> <p>OUTPUT..... 12 Tonnes</p> <p>RAM STROKE..... 32mm</p> <p>DIE SET..... '38' type dies</p> <p>LENGTH..... 640mm</p> <p>WEIGHT..... 7.0kg</p> <p>RANGE..... Up to 300mm²</p> <div></div> <p>INCLUDES..... #38C Crimping Unit, Heavy Duty Plastic Carry Case, With Die Compartments, Operation & Maintenance Manual</p> |



| CAT NO. | DESCRIPTION |
|-------------|---|
| #41A | <p>Complete hydraulic crimping tool kit. Refer individual components for detailed specifications.</p> <p>KIT INCLUDES..... #P80 – 10,000 psi hand operated hydraulic pump #41AH – 12t hydraulic crimp head #HYH2M – 2m hydraulic hose with couplings Timber carry box</p> <p>WEIGHT 29kg (complete)</p> <p>BOX DIM. 740mm(L) x 270mm(W) x 290mm(H)</p> |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #42A | <p>Complete air/hydraulic crimping tool kit. Requires 400-700kPa compressed air supply. Refer individual components for detailed specifications.</p> <p>KIT INCLUDES..... #PA133 – Air operated hydraulic pump #41AH – 12t hydraulic crimp head #HYH2M – 2m hydraulic hose with couplings Timber carry box</p> <p>WEIGHT 24kg (complete)</p> <p>BOX DIM. 740mm(L) x 270mm(W) x 290mm(H)</p> |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #40B | <p>The tool kit for large line and cable work. A complete package of precision engineered components for the most demanding applications. Refer individual components for detailed specifications.</p> <p>KIT INCLUDES..... #40BH – 60 tonne compression head #P80 – 10,000psi hand pump #HYH2M, – 2m hydraulic hose with couplings Aluminium compression head stand Timber carry box</p> <p>WEIGHT 51kg (complete)</p> <p>BOX DIM..... 740mm(L) x 270mm(W) x 290mm(H)</p> |



HEAVY DUTY BATTERY OPERATED HYDRAULIC CRIMP TOOLS

The world's first hydraulic crimping tools powered by rechargeable Ni-Cd batteries. These tools minimise the effort required by linesmen and cable jointers to apply crimp connectors, resulting in increased productivity and a reduction in work related strain injuries. Easy and safe to use with no hydraulic hoses or external power supplies required, these tools are ideal for live line glove and barrier work, or where access to the joint is difficult or restricted.

| CAT NO. | DESCRIPTION |
|----------------|---|
| #111BIL | <p>The #111BIL is stick type battery operated compression tool, accepts BEKU type dies for 10mm² up to 185mm² copper or 6mm² to 120mm² aluminium.</p> <p>This portable light weight rechargeable compression tool is easier to access tight cable joints in narrow control panel.</p> <p>The control buttons are activated by only one hand so that other hand is always free to hold working material.</p> <p>FEATURES..... Fully automatic, self contained battery operated compression tool, Right or left handed operation, Optional quick charger, Quality backed by ISO9001, Made in Japan</p> <p>RAM STROKE..... 15mm</p> <p>HEX COMP Max. 185mm² Cu Lugs</p> <p>MOTOR 14.4 VDC</p> <p>FORCE AT DIE FACE 52kN</p> <p>SIZE..... 397mm(L) x 79mm(H) x 70mm(W)</p> <p>WEIGHT 2.3kg (without battery) 3.1kg (with battery)</p> <p>CHARGER CH35EMC</p> <p>BATTERIES BP70EI Intelligent, BP70MH NiMH</p> <p>PACKAGING Double molded carry case, Wrist Strap</p> |

NEW

| CAT NO. | DESCRIPTION |
|-----------------|--|
| #UC6ROBO | <p>Dieless multiple indent type tool often used for overhead work. Emulates 'versa crimp' type.</p> <p>INCLUDES..... 2 x BP70E battery 1 x CH3FC2 battery charger Shoulder strap</p> <p>RANGE..... Up to 19/3.75*</p> <p>FEATURES..... LED battery charge indicator, 180 deg swivel head.</p> <p>OUTPUT..... 6 tonnes</p> <p>RAM STROKE..... 29mm</p> <p>DIE SET Dies not required</p> <p>WEIGHT 4.4kg</p> <p>SIZE..... 360mm(L) x 280mm(H) x 70mm(W)</p> <p>PACKAGING All components packed in plastic carry case</p> <p>*consult for application suitability</p> |





NEW

CAT NO.

#38BH

DESCRIPTION

The UTILUX #38BH is a high quality, light weight, battery powered hydraulic crimper.

With it's 180° swivel head, non-slip handle and light weight design, the UTILUX #38BH minimises the effort required by lines people and cable jointers to apply crimp connectors, resulting in increased productivity and a reduction in work related strain injuries. Easy and safe to use with no hydraulic hoses or external power supplies required, this tool is ideal for live line glove and barrier work, or where access to the joint is difficult or restricted.

Featuring a two stage action, enabling fast advance speed, LED display, including battery condition and abnormal signal plus a sturdy, durable housing, the UTILUX #38BH is a robust, portable crimper capable of handling the most challenging of situations.

FEATURES..... 2 stage action, Large crimp range; 6 - 300mm², Battery power indicator, BOSCH rechargeable battery, Non slip handle design, Durable housing, 32mm throat size.

SIZE 390mm(L) x 353mm(H) x 89mm(W)

WEIGHT 8.5kg (with battery)

RANGE 6mm² – 300mm²

JAW OPENING..... 32mm

CRIMPING FORCE.. 12.7 Tonne



INCLUDES..... #38BH Crimping Tool, 14.4V 2.6Ah NiMH Battery, Battery Charger, Shoulder Strap, Robust Plastic Carry Case, Operation & Maintenance Manual

ACCESSORIES FOR BATTERY POWERED TOOLS



| CAT NO. | DESCRIPTION |
|--------------|--|
| BP70E | Rechargeable battery pack for all Utilux battery operated tools. CAPACITY..... 1.9 ampere hour CHARGE TIME..... 95min with CH3FC & CH-70DC, 25 min with CH35EMC OUTPUT VOLTAGE.. 14.4VDC SIZE..... 100mm(L) x 137mm(H) x 70mm(W) WEIGHT..... 800g |



| CAT NO. | DESCRIPTION |
|---------------|---|
| BP70E1 | Intelligent rechargeable battery pack with LED indicator, for all Utilux battery operated tools. Indicator shows charge and battery life status. CAPACITY..... 1.9 ampere hour CHARGE TIME..... 1 hr with CH3FC & CH-70DC, 25 min with CH35EMC OUTPUT VOLTAGE.. 14.4VDC SIZE..... 100mm(L) x 137mm(H) x 70mm(W) WEIGHT..... 820g |



| CAT NO. | DESCRIPTION |
|---------------|---|
| BP250R | Extra heavy duty rechargeable battery pack for all Utilux battery operated tools. Includes waist strap. CAPACITY..... 4.0 ampere hour CHARGE TIME..... 3 hr with CH3FC, 45 min with CH3FR SIZE..... 228mm(L) x 159mm(H) x 40mm(W) WEIGHT..... 2.5kg |



| CAT NO. | DESCRIPTION |
|--------------|--|
| CH3FC | Mains powered standard battery charger for all Utilux battery packs. 1hr charge time for BP70R and BP70I battery packs. Includes LED charge indicator. SIZE..... 212mm(L) x 95mm(H) x 105mm(W) WEIGHT..... 1.9kg |



| CAT NO. | DESCRIPTION |
|--------------|--|
| CH3FR | Mains powered standard battery QUICK charger for all Utilux battery packs. 15mins charge time for BP70R and BP70I battery packs. Includes 4 function LED indicator. SIZE..... 212mm(L) x 95mm(H) x 115mm(W) WEIGHT..... 770g |

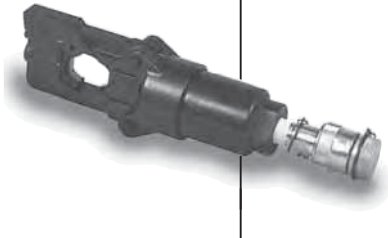


| CAT NO. | DESCRIPTION |
|----------------|---|
| CH-70DC | 12V/24V powered battery charger for all Utilux battery packs. 1 hr charge time for BP70R and BP70I battery packs. Includes LED charge indicator, and vehicle cigarette lighter plug. SIZE..... 200mm(L) x 95mm(H) x 115mm(W) WEIGHT..... 700g |

HEAVY DUTY HYDRAULIC CRIMPING HEADS

A versatile alternative to the self contained hand operated crimpers, these hydraulic crimping heads will attach to a range of hand operated or electric pumps. Designed and manufactured to the same exacting standards as the other hydraulic tools in the Utilux range.

All crimp heads are complete with a coupling to suit Utilux hydraulic hoses. Couplings can be changed to suit other equipment on request.



| CAT NO. | DESCRIPTION |
|--------------|--|
| #111H | <p>Spring assisted latch 'H' frame head ideal for LVABC work. Connects to a range of 10,000 psi pumps. Includes coupling.</p> <p>FEATURES Spring assisted head latch, Adjustable ram stroke, Spring assisted ram retraction</p> <p>RANGE 6mm² – 150mm² (LVABC), 6mm² – 120mm² (Cu and Al)</p> <p>INPUT REQUIRED ... 10,000 psi, single acting pump</p> <p>OIL VOL. REQ'D 18cc</p> <p>OUTPUT 5.2 tonnes</p> <p>RAM STROKE 10 to 15mm</p> <p>DIE SET '111' type dies</p> <p>LENGTH 250mm</p> <p>WEIGHT 1.6kg (tool only with die set loaded)</p> <p>PACKAGING Metal carry case, with die compartment</p> |

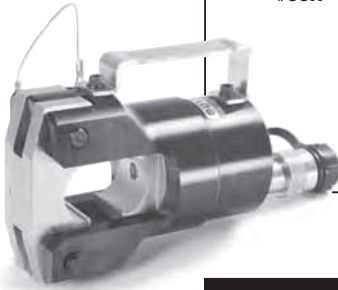


| CAT NO. | DESCRIPTION |
|--------------|---|
| #41AH | <p>'C' frame general purpose compression head. Includes coupling.</p> <p>FEATURES Robust construction, Spring assisted ram retraction</p> <p>RANGE Up to 300mm²</p> <p>INPUT REQUIRED ... 10,000 psi, single acting pump</p> <p>OIL VOL. REQ'D 42cc</p> <p>OUTPUT 11.3 tonnes</p> <p>RAM STROKE 25mm</p> <p>DIE SET '38' type dies</p> <p>LENGTH 285mm</p> <p>WEIGHT 3.6kg (tool only with die set loaded)</p> <p>PACKAGING Metal carry case, with die compartment</p> |



| CAT NO. | DESCRIPTION |
|-------------|---|
| #98H | <p>'C' frame extra wide (38mm) compression head. Includes coupling.</p> <p>FEATURES Robust construction, Spring assisted ram retraction</p> <p>RANGE Up to 300mm²</p> <p>INPUT REQUIRED ... 10,000 psi, single acting pump</p> <p>OIL VOL. REQ'D 72cc</p> <p>OUTPUT 12 tonnes</p> <p>RAM STROKE 38mm</p> <p>DIE SET '38' type dies</p> <p>LENGTH 315mm</p> <p>WEIGHT 5.0kg (tool only with die set loaded)</p> <p>PACKAGING Metal carry case, with die compartment</p> |

HEAVY DUTY HYDRAULIC CRIMPING HEADS



| CAT NO. | DESCRIPTION |
|-------------|--|
| #66H | <p>'U' frame increased capacity compression head. Includes coupling.</p> <p>FEATURES Robust construction, Spring assisted ram retraction, Carry handle</p> <p>RANGE Up to 500mm²</p> <p>INPUT REQUIRED ... 10,000psi, single acting pump</p> <p>OUTPUT 22 tonnes</p> <p>DIE SET '66' and '38' type dies</p> <p>WEIGHT 7.8kg (tool only with die set loaded)</p> |



| CAT NO. | DESCRIPTION |
|--------------|--|
| #50AH | <p>'U' frame increased capacity compression head for up to 630mm² connectors. Includes coupling.</p> <p>FEATURES Robust construction, Spring assisted ram retraction, Removable top die for easy application to cable, Light weight, Can use '38' type dies with #50ADH adaptor</p> <p>RANGE Up to 630mm²</p> <p>INPUT REQUIRED ... 10,000psi, single acting pump</p> <p>OUTPUT 18 tonnes</p> <p>DIE SET '50' type dies, #50ADH '38' die adaptor</p> <p>LENGTH 240mm</p> <p>WEIGHT 5.9kg</p> |



| CAT NO. | DESCRIPTION |
|--------------|---|
| #40BH | <p>'U' frame high capacity compression head. Includes coupling and alloy stand.</p> <p>FEATURES Robust construction, Spring assisted ram retraction, Carry handle, Removable die cap</p> <p>RANGE Up to 1000mm²</p> <p>INPUT REQUIRED ... 10,000psi, single acting pump</p> <p>OIL VOL. REQ'D 703cc</p> <p>OUTPUT 55 tonnes</p> <p>RAM STROKE 38.5mm</p> <p>DIE SET '40' type dies, '38' type dies using #40DH die holder</p> <p>SIZE 146mm(dia) x 446mm(H), in stand</p> <p>WEIGHT 22kg (tool only with die set loaded)</p> <p>PACKAGING Metal carry case</p> |

HEAVY DUTY HYDRAULIC CRIMPING HEADS



| CAT NO. | DESCRIPTION |
|-------------|---|
| #67H | <p>'U' frame 100t capacity compression head. Suitable for transmission line work. Includes couplings.</p> <p>FEATURES Robust construction, Carry handle, Removable die cap</p> <p>RANGE Consult</p> <p>INPUT REQUIRED ... 10,000psi, double acting pump</p> <p>OIL VOL. REQ'D 314cc</p> <p>OUTPUT 100 tonnes</p> <p>RAM STROKE 22mm</p> <p>DIE SET Made to order '100' type dies</p> <p>SIZE 195mm(dia) x 360mm(H)</p> <p>WEIGHT 32kg</p> |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #70H | <p>'U' frame 200t capacity compression head. Suitable for transmission line work. Includes couplings.</p> <p>FEATURES Robust construction, Carry handles, Removable die cap</p> <p>RANGE Consult</p> <p>INPUT REQUIRED ... 10,000psi, double acting pump</p> <p>OIL VOL. REQ'D 1,134cc</p> <p>OUTPUT 200 tonnes</p> <p>RAM STROKE 40mm</p> <p>DIE SET Made to order '200' type dies</p> <p>SIZE 270mm(dia) x 415mm(H)</p> <p>WEIGHT 84kg</p> |

HYDRAULIC PUMPS AND CONTROLLERS

A range of quality hydraulic pumps and controllers to suit Utilux crimping heads and hydraulic hoses. Each pump has been selected to offer the optimum in performance and price for crimping applications. Pumps for special applications or requiring features not listed can be manufactured to order.



| CAT NO. | DESCRIPTION |
|---------------|--|
| #PA133 | Complete air/hydraulic crimping tool kit. Requires 400-700kPa compressed air supply. Refer individual components for detailed specifications. FEATURES Rugged construction Swivel coupling 3 position treadle - advance, hold, release Base mounting slots WEIGHT 5.4kg (complete) SIZE 370mm(L) x 140mm(W) x 145mm(H) |



| CAT NO. | DESCRIPTION |
|-------------|---|
| #P80 | Hand operated single acting hydraulic pump. Suitable for use with Model 111H40BH, 41AH Press Head and NO. 66 crimping head. FEATURES 2 speed mechanism for faster pumping, Built in oil pressure relief valve, Large oil capacity, Operating pressure 70,000kPa (10,000psi) OIL CAPACITY 2491cc OIL PORT 3/8" NPTF OUTPUT 10,000psi HANDLE EFFORT 63.5kg (max) SIZE 578mm(L) x 95.3mm(W) x 175mm(H) WEIGHT 12.7kg |



| CAT NO. | DESCRIPTION |
|------------------|---|
| #PUJ1200E | Mains (240V) powered portable single acting hydraulic pump. Suitable for use with a wide range of crimping heads and cylinders requiring 10,000psi supply and large oil volumes. FEATURES Robust construction, 2 stage pump 3m remote hand operated pendant controller OIL CAPACITY 2000cc OIL PORT 3/8" NPTF MOTOR 0.38kW OUTPUT 10,000psi SIZE 240mm(L) x 240mm(W) x 360mm(H) WEIGHT 10kg |



| CAT NO. | DESCRIPTION |
|------------------------|---|
| #PGM2304R #PGM2404R | <p>Petrol engine powered 2 stage pump with 3 way, 2 position valve for use with a variety of heads, single or double acting.</p> <p>FEATURES..... 70,000kPa (10,000psi) oil pressure Positive type rewind starter 2 & 4 litre reservoir Quiet efficient muffler</p> <p>ENGINE..... 1.8kW OUTPUT..... 10,000psi OIL CAPACITY 3800cc SIZE..... 560mm(L) x 440mm(W) x 570mm(H) WEIGHT 25kg</p> |



| CAT NO. | DESCRIPTION |
|------------------------|---|
| HYDRAULIC HOSES | <p>Standard Style: Utilux hydraulic hoses are manufactured from 2 brades of high tensile steel reinforced rubber. The rubber is oil and weather resistant. All hoses are fitted with a male quick coupler at one end for connection to the crimp head, and a 3/8" male NPTF fitting on the other for connection to the pump.</p> <p>DIAMETER..... 9.5 (nom) inside OPERATING PRESS. 10,000psi BURST PRESSURE . 20,000psi #HYH2M..... 2m long hose #HYH3M..... 3m long hose #HYH6M..... 6m long hose</p> <p>Non Conductive Style: Non conductive sheathed hydraulic hoses are also available for applications requiring electrical isolation of the hose. Orange coloured sheath for easy identification.</p> <p>DIAMETER..... 6.4 (nom) inside OPERATING PRESS. 10,000psi BURST PRESSURE . 40,000psi LEAKAGE..... Less than 50 micro amps #HYH2MNC 2m long hose #HYH3MNC 3m long hose #HYH6MNC 6m long hose</p> |



| CAT NO. | DESCRIPTION |
|-----------------------|--|
| HOSE COUPLINGS | <p>All Utilux hydraulic crimp tools (where required) are fitted with a female hydraulic quick coupler, suitable for connection to Utilux hydraulic hoses. All couplings include a plastic dust cap.</p> <p>MALE COUPLING ... #MC38 FEMALE COUPLING #FC38 COUPLING SPECIFICATIONS: THREAD 3/8" NPT MAX FLOW 40 litres/min MAX PRESSURE..... 10,000psi</p> |

CABLE CUTTERS

A range of simple but robust cable cutters for a variety of applications.



| CAT NO. | DESCRIPTION |
|---------|--|
| #107 | Ratchet cable cutter for cutting copper and aluminim cable only up to 240mm ² , 32mm diameter. Compact design for single handed operation. LENGTH 250mm WEIGHT 700g |



| CAT NO. | DESCRIPTION |
|---------|--|
| #110 | Small single hand operated parrot beak style cutter, ideal for general applications. Precision blades make this tool ideal for cutting flexible copper cables. LENGTH 240mm WEIGHT 460g RANGE 6-70mm ² |



| CAT NO. | DESCRIPTION |
|---------|--|
| #108 | Gear driven large capacity ratchet cable cutter, with rapid blade advance. robust forged construction cuts up to 400mm ² single core copper cable. Not suitable for steel. FEATURES Rubber handle grips, Single hand operation, Emergency release mechanism, Blade reversing lever LENGTH 260mm WEIGHT 1.1kg |



| CAT NO. | DESCRIPTION |
|---------|--|
| #109 | Smaller version of #108 cutter, for cables up to 300mm ² . LENGTH 230mm WEIGHT 520g |



| CAT NO. | DESCRIPTION |
|---------|---|
| #140 | Parrot beak style cable cutter for copper and aluminium conductors up to 240mm ² . Replacement blades available. LENGTH 610mm WEIGHT 1.8kg |

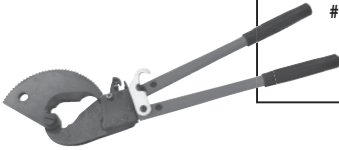


| CAT NO. | DESCRIPTION |
|---------|---|
| #141 | Parrot beak style cable cutter for copper and aluminium conductors up to 500mm ² . Replacement blades available. LENGTH 805mm WEIGHT 2.8kg |



| CAT NO. | DESCRIPTION |
|---------|--|
| #144 | Parrot beak style cable cutter for copper and aluminium conductors up to 125mm ² . LENGTH 300mm WEIGHT 700g |

HEAVY DUTY CABLE CUTTER



| CAT NO. | DESCRIPTION |
|-------------|--|
| #166 | Ratchet cable cutter suitable for ACSR up to 16mm OD. A robust ratchet cutter that's easy to use. LENGTH 465mm WEIGHT 1.55kg |

BATTERY OPERATED CABLE CUTTERS

A range of simple but robust cable cutters for a variety of applications.



NEW

| CAT NO. | DESCRIPTION |
|--------------|--|
| #50BC | <p>The #50BC is a portable gear driven cable cutter ideal for many applications. Specifically designed to cut the toughest copper and aluminium cables in a limited amount of space. Cuts up to 50mm OD non-ferrous cables. Minimal cable distortion with clean cuts from the toughened blade. Reversing switch to enable multiple cuts with minimal blade movement. Circuit breaker for overload protection.</p> <p>FEATURES..... Eliminates possible RSI, Rocker switch control (forward and reverse), Cuts clean with minimal distortion, Built in overload protection, Up to 100 cuts from single battery charge</p> <p>SIZE 105mm(L) x 375mm(H) x 115mm(W) INPUT VOLTAGE 220V Single Phase AC DRIVE UNIT 12V DC Motor WEIGHT 2.5kg INCLUDES #50BC Cutter Unit, 12V Ni-CD Battery, Battery Charger, Shoulder Strap, Robust Plastic Carry Case, Operation & Maintenance Manual</p> |



| CAT NO. | DESCRIPTION |
|------------------|--|
| #S440ROBO | <p>Battery powered hydraulic cutter (refer #CCS40A for application and cutting range). Designed for ACSR cables.</p> <p>INCLUDES Cutter unit 2 x BP70E battery unit 1 x CH3FC2 battery charger, Shoulder strap</p> <p>FEATURES..... Eliminates possible RSI, Flip top latched head Head rotates through 350 deg, Built in overload protection,</p> <p>RAM STROKE..... 40mm OUTPUT..... 7 tonnes SIZE 440mm(L) x 260mm(H) x 78mm(W) WEIGHT 6kg PACKAGING Durable plastic carry case</p> |

HYDRAULIC CABLE CUTTERS

Quality hydraulic cable cutters for the most demanding power cable cutting jobs.

The hydraulic cutters in this range are also suitable for cutting such things as guy wires, steel bar, earth rods and steel reinforced overhead conductor. Consult the application selection chart for details.

Spare and replacement blades are available.

THESE TOOLS ARE NOT SUITABLE FOR CUTTING HIGH TENSILE STEEL OR PIANO WIRE.

SPECIFICATION CHART

| Cat No. | Style | Oil Vol Required (cc) | Output (tonnes) | Pumping Stages | Head Rotation (deg) | Length (mm) | Weight (kg) |
|----------|---------------|-----------------------|-----------------|----------------|---------------------|-------------|-------------|
| #CCS20A | Hand Operated | - | 4 | 1 | 180 | 390 | 2.8 |
| #CCSP20A | Head only | 18 | 4 | - | - | 240 | 2.1 |
| #CCS32 | Hand Operated | - | 20 | 1 | 180 | 675 | 9.3 |
| #CCSP32 | Head only | 135 | 20 | - | - | 300 | 10.0 |
| #CCS40A | Hand Operated | - | 6 | 2 | 180 | 580 | 5.7 |
| #CCSP40A | Head only | 48 | 8 | - | - | 340 | 4.0 |
| #CCS55 | Hand Operated | - | 12 | 1 | 180 | 610 | 7.9 |
| #CCSP55 | Head only | 120 | 12 | - | - | 415 | 9.0 |
| #CCS75 | Hand Operated | - | 2.5 | 1 | 360 | 645 | 6.3 |
| #CCS85 | Hand Operated | - | 3 | 2 | 180 | 690 | 8.7 |
| #CCSP85 | Head Only | 65 | 3 | - | - | 460 | 7.2 |
| #CCSP100 | Head only | 140 | 7.5 | - | - | 590 | 13.2 |

HYDRAULIC CABLE CUTTERS • APPLICATION SELECTION CHART

Cutting Capacity – Maximum diameter (mm)

NOTE: These tools are not suitable for cutting high tensile steel or piano wire

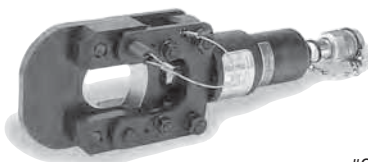
| Cat No. | Cu strands | Al strands | CCP (Telephone) Cable | 3/4 Core solid sector aluminium | Wire rope 6 x 7 | Wire rope 6 x 12 | Wire rope 6 x 19 | Soft steel bar | Reinforcing rod | ACSR | Guy wire 1 x 7 | Guy wire 1 x 19 |
|----------|------------|------------|-----------------------|---------------------------------|-----------------|------------------|------------------|----------------|-----------------|------|----------------|-----------------|
| #CCS20A | 20 | 20 | - | - | 16 | 20 | 20 | 16 | 13 | 21 | 15 | 16 |
| #CCSP20A | 20 | 20 | - | - | 16 | 20 | 20 | 16 | 13 | 21 | 15 | 16 |
| #CCS32 | 32 | 32 | - | 30 | 32 | 32 | 32 | 25 | 25 | 32 | 32 | 32 |
| #CCSP32 | 32 | 32 | - | 30 | 32 | 32 | 32 | 25 | 25 | 32 | 32 | 32 |
| #CCS40A | 41 | 41 | - | 35 | 22 | 25 | 25 | 20 | 16 | 38 | 15 | 20 |
| #CCSP40A | 41 | 41 | - | 35 | 22 | 25 | 25 | 20 | 16 | 38 | 15 | 20 |
| #CCS55 | 55 | 55 | - | 50 | 25 | 30 | 30 | 22 | 19 | 50 | 15 | 20 |
| #CCSP55 | 55 | 55 | - | 50 | 25 | 30 | 30 | 22 | 19 | 50 | 15 | 20 |
| #CCS75 | 23 | 29 | 75 | - | - | - | - | - | - | - | - | - |
| #CCS85 | 28 | 38 | 85 | - | - | - | - | - | - | - | - | - |
| #CCSP85 | 28 | 38 | 85 | - | - | - | - | - | - | - | - | - |
| #CCSP100 | 42 | 46 | 100 | - | - | - | - | - | - | - | - | - |


#CCS20A

#CCSP20A

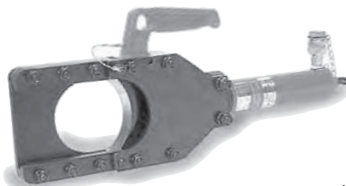
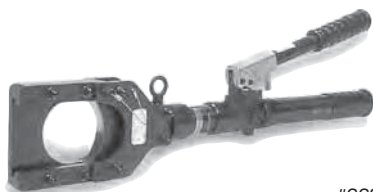
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#CCSP32

#CCS40A

#CCSP40A

#CCS55

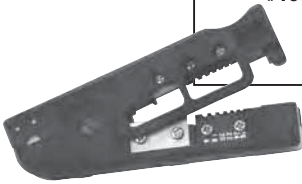
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#CCS75

#CCSP100

#CCS85

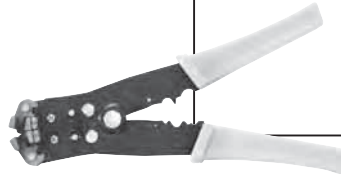
#CCSP85

CABLE STRIPPERS

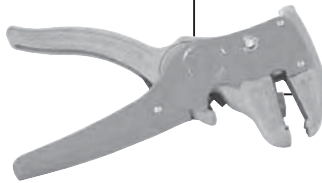
Safe and easy to use, this innovative range of tools is the ideal solution to a variety of cable stripping applications.



| CAT NO. | DESCRIPTION |
|-------------|---|
| #106 | Coaxial and single conductor wire stripper. LENGTH..... 125mm WEIGHT 100g |



| CAT NO. | DESCRIPTION |
|------------|--|
| #90 | This easy to use handtool has been developed for stripping insulation from electrical cable. Benefits include alloy steel jaws for stripping wire from 10-26 AWG. Crimps terminals neat and tight. Specially designed light pressure handles. Wire cutter incorporated. RANGE..... 0.13 to 6mm ² LENGTH..... 210mm WEIGHT 300g |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #118 | Self adjusting wire cutter stripper. RANGE..... 0.2 to 6mm ² LENGTH..... 172mm WEIGHT 220g |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #154 | Rotary action cable stripper. RANGE..... 4.5 to 40mm OD LENGTH..... 135mm WEIGHT 150g |



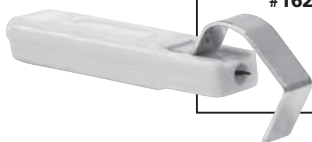
TRIPLE ACTION SPIRAL CUT



| CAT NO. | DESCRIPTION |
|-------------|--|
| #160 | Economical cable stripper. RANGE..... 4 to 16mm OD LENGTH 133mm WEIGHT 100g |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #161 | Economical cable stripper. RANGE..... 8 to 25mm OD LENGTH 135mm WEIGHT 100g |



| CAT NO. | DESCRIPTION |
|-------------|---|
| #162 | Economical cable stripper. RANGE..... 28 to 35mm OD LENGTH 155mm WEIGHT 100g |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #163 | Economical cable stripper with straight blade. RANGE..... 8 to 28mm OD LENGTH 187mm WEIGHT 100g |



| CAT NO. | DESCRIPTION |
|-------------|--|
| #164 | Economical cable stripper with curved blade. RANGE..... 8 to 28mm OD LENGTH 175mm WEIGHT 100g |

SCREWDRIVER TOOL KIT

| CAT NO. | DESCRIPTION |
|--------------|---|
| TK-24 | Economical 7 piece insulated screwdriver set in handy carry case. |

CRIMPING DIES

Utilux crimping dies for aluminium and copper connectors are precision engineered from EN26 high tensile steel, oil hardened to 50-52 Rockwell C, ensuring long life and minimal die wear. Each hexagon die set is engraved with "Utilux" on one of the die faces, and the die part number on the other, leaving an indent on the crimp for easy inspection and verification.

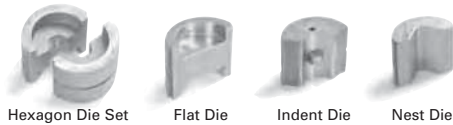
THE RANGE OF DIES INCLUDES:

- Hexagonal die sets for precision crimping of copper and aluminium connectors
 - Nest and indent die sets for special aluminium applications
 - Special 'steel' dies for crimping steel sleeves

The selection of the die type required depends on the connector to be crimped, and the tool to be used.
Special size dies made to order.

'38' SERIES DIE SETS

Suitable for all '12 tonne' hydraulic crimp tools in the Utilux range, as well as th #66H tool.



'40' SERIES DIE SETS

Suitable for the #40B tool, the #40BH tool and their variants.



'50' SERIES DIE SETS

Suitable for the #50AH tool only

Hexagon Die Set

'66' SERIES DIE SETS

Suitable for the #66H tool only



'111' SERIES DIE SETS

Suitable for the #111, #111H and #111ROBO tools



'67' AND '70' SERIES DIE SETS

Specially manufactured to order for the #67H and #70H compression heads

DIE HOLDERS

Special die holders are available that allow the use of '38' series dies in the #40B and #50A tools.

#40DH for use the #40B and #40BH tools

#50ADH for use the #50AH tool



12 TONNE DIES

HEXAGONAL CRIMP DIES – Copper



| COPPER CONDUCTOR SIZE (mm²) | PRECISION | BUDGET | COPPER DIE A/F (mm) |
|-----------------------------|-----------|--------|---------------------|
| 6 | 38-44CU | CDC6 | 4.4 |
| 10 | 38-57CU | CDC10 | 5.7 |
| 16 | 38-63CU | CDC16 | 6.3 |
| 20 | 38-70CU | CDC20 | 7.0 |
| 25 | 38-77CU | CDC25 | 7.7 |
| 35 | 38-92CU | CDC35 | 9.2 |
| 50 | 38-104CU | CDC50 | 10.4 |
| 70 | 38-115CU | CDC70 | 11.5 |
| 95 | 38-142CU | CDC95 | 14.2 |
| 120 | 38-165CU | CDC120 | 16.5 |
| 150 | 38-183CU | CDC150 | 18.3 |
| 185 | 38-200CU | CDC185 | 20.0 |
| 240 | 38-231CU | CDC240 | 23.1 |
| 300 | 38-260CU | CDC300 | 26.0 |

HEXAGONAL CRIMP DIES – Aluminium



| ALUMINIUM CONDUCTOR SIZE (mm²) | PRECISION | BUDGET | ALUMINIUM DIE A/F (mm) |
|--------------------------------|-----------|------------|------------------------|
| 6 - 35 | 38-90AL | CDA6/35 | 9.0 |
| 50 - 70 | 38-132AL | CDA50/70 | 13.2 |
| 95 - 120 | 38-173AL | CDA95/120 | 17.3 |
| 150 - 185 | 38-220AL | CDA150/185 | 21.0 |
| 240 - 300 | 38-284AL | CDA240/300 | 28.4 |

INDENT CRIMP DIES – Sector Aluminium



| ALUMINIUM CONDUCTOR SIZE (mm²) | 3 CORE | | 4 CORE | |
|--------------------------------|----------|-----------|----------|-----------|
| | NEST DIE | INDENTOR | NEST DIE | INDENTOR |
| 70 | #12NEST | #14INDENT | #14NEST | #14INDENT |
| 95 | #12NEST | #15INDENT | #14NEST | #15INDENT |
| 120 | #12NEST | #16INDENT | #14NEST | #16INDENT |
| 150 | #12NEST | #17INDENT | #15NEST | #17INDENT |
| 185 | #12NEST | #18INDENT | #15NEST | #18INDENT |
| 240 | #12NEST | #19INDENT | #15NEST | #19INDENT |
| 300 | #12NEST | #20INDENT | #15NEST | #20INDENT |

12 TONNE DIES

HEXAGONAL CRIMP DIES – Half Hex (for flexible cables)



| MULTI STRANDED CABLE (mm ²) | DIE SET | HEX DIE | FLAT DIE |
|---|--------------|----------|-----------|
| 16 | 38-98HHEX17 | 38-98CU | 38-FLAT17 |
| 25 | 38-122HHEX17 | 38-122CU | 38-FLAT17 |
| 35 | 38-130HHEX17 | 38-130CU | 38-FLAT17 |
| 50 | 38-153HHEX17 | 38-153CU | 38-FLAT17 |
| 70 | 38-183HHEX14 | 38-183CU | 38-FLAT14 |
| 95 | 38-220HHEX14 | 38-220CU | 38-FLAT14 |
| 120 | 38-245HHEX14 | 38-245CU | 38-FLAT14 |

Note: Flat dies are available individually

CRIMP DIES – C Connectors



| CABLE RANGE (mm ²) | DIE SET | CABLES RANGE (mm ²) | DIE SET |
|--------------------------------|---------|---------------------------------|---------|
| 14 - 20 | 38-T020 | 99 - 122 | 38-T122 |
| 21 - 26 | 38-T026 | 123 - 154 | 38-T154 |
| 27 - 44 | 38-T044 | 155 - 190 | 38-T190 |
| 45 - 60 | 38-T060 | 191 - 240 | 38-T240 |
| 61 - 76 | 38-T076 | 241 - 288 | 38-T288 |
| 77 - 98 | 38-T098 | 289 - 365 | 38-T365 |

HEXAGONAL CRIMP DIES – Steel cores of ACSR Conductor



| DIE SET | DIE A/F (mm) | DIE SET | DIE A/F (mm) |
|-----------|--------------|-----------|--------------|
| 38-74ST13 | 7.4 | 38-95ST | 9.5 |
| 38-76ST | 7.6 | 38-95ST13 | 9.5 |
| 38-80ST | 8.0 | 38-130ST7 | 13.0 |

HEXAGONAL CRIMP DIES – Insulated ABC Connectors



| ABC CABLE | DIE SET | DIE A/F (mm) |
|-----------|-----------|--------------|
| 6 - 35 | 38-140AL9 | 14.0 |
| 25 - 95 | 38-173AL9 | 17.3 |
| 95 - 150 | 38-215AL9 | 21.5 |

DIES FOR 5 TONNE TOOL



| CONDUCTOR | SIZE (mm ²) | HEX DIE | A/F (mm ²) |
|-----------|-------------------------|------------|------------------------|
| Copper | 10 | 111-5763CU | 5.7 |
| | 16 | | 6.3 |
| | 25 | | 7.7 |
| | 35 | 111-7792CU | 9.2 |
| | 50 | | 10.4 |
| | 70 | 111- | 11.5 |
| | 95 | 111- | 14.2 |
| | 120 | | 16.5 |
| Aluminium | 6, 10, 16, 25, 35 | 111-ALSPEC | 9.0 |
| | 50, 70 | | 13.2 |
| | 95, 120 | | 17.3 |
| ABC | MFPB Sleeves | 111- | 14.0 |
| | 25 - 95 | | 17.3 |
| | 95 - 150 | 111-215AL | 21.5 |

DIES FOR 18 TONNE TOOL



| CONDUCTOR | SIZE (mm ²) | HEX DIE | A/F (mm ²) |
|-----------|-------------------------|-----------|------------------------|
| Copper | 400 | 50A-281CU | 28.1 |
| | 500 | 50A-310CU | 31 |
| | 630 | 50A-370CU | 37 |
| Aluminium | 400 | 50A-390AL | 39 |
| | 500 | | |

DIES FOR 60 TONNE TOOL



| CONDUCTOR | SIZE (mm ²) | HEX DIE | A/F (mm ²) |
|-----------|-------------------------|----------|------------------------|
| Copper | 70 | 40-130CU | 13.0 |
| | 95 | 40-142CU | 14.2 |
| | 120 | 40-165CU | 16.5 |
| | 150 | 40-185CU | 18.5 |
| | 185 | 40-200CU | 20.0 |
| | 240 | 40-231CU | 23.1 |
| | 300 | 40-260CU | 26.0 |
| | 400 | 40-281CU | 28.1 |
| | 500 | 40-310CU | 31.0 |
| | 630 | 40-370CU | 37.0 |
| | 800 | 40-432CU | 43.2 |
| Aluminium | 1000 | 40-480CU | 48.0 |
| | 95, 120 | 40-172AL | 17.2 |
| | 150, 185 | 40-220AL | 22.0 |
| | 240, 300 | 40-283AL | 28.3 |
| | 400, 500 | 40-390AL | 39.0 |
| | 630 | 40-432AL | 43.2 |

DIES FOR 60 TONNE TOOL

HEXAGONAL CRIMP DIES – Steel Cores of ACSR Conductor

| DIE SET | DIE A/F (mm) | DIE SET | DIE A/F (mm) |
|------------|--------------|------------|--------------|
| 40-068ST | 6.8 | 40-170ST | 17.0 |
| 40-95ST | 9.5 | 40-190ST | 19.0 |
| 40-95ST19 | 9.5 | 40-200ST19 | 20.0 |
| 40-140ST19 | 14.0 | 40-250ST | 25.0 |
| 40-160ST | 16.0 | 40-260ST | 26.0 |

#TY SERIES CRIMPING TOOL

LENGTH 381mm • WEIGHT 1.16kg

Available in various crimp groove size combinations. The complete range is adjustable and robust.
All models are supplied complete with adjusting key and G0-No Go gauge to ensure a perfect crimp every time.



| CAT NO. | CRIMP GROOVE SIZES mm |
|-----------|-----------------------|
| #TY476556 | 4.76 and 5.56 |
| #TY476635 | 4.76 and 6.35 |
| #TY556635 | 5.56 and 6.35 |
| #TY635794 | 6.35 and 7.94 |
| #TY556794 | 5.56 and 7.94 |

#TR SERIES CRIMPING TOOL

LENGTH 534mm • WEIGHT 2.7kg

This Crimping Tool is available in various crimp groove size combinations. The complete range is adjustable and robust.
All models are supplied complete with adjusting key and Go-No Go gauge to ensure a perfect crimp every time.



| CAT NO. | CRIMP GROOVE SIZES mm |
|------------|-----------------------|
| #TR9521270 | 9.52 and 12.70 |
| #TR794952 | 7.94 and 9.52 |
| #TR1588 | 15.88 (single groove) |

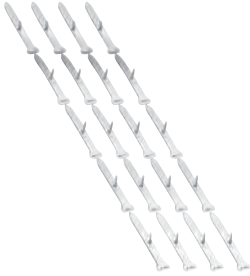
SECTION 9

CABLE MANAGEMENT AND ASSOCIATED PRODUCTS

The products in this section are used for fastening and bonding.

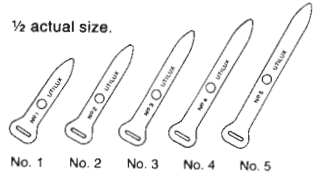
A large range of pin clips are available for a range of cable bundle diameters. They provide a good means for neatly securing bundles of cable to surfaces. The earth clips provide a quick and secure method for bonding earth conductors. They are made from quality brass and are approved by the Department of Minerals and Energy NSW.

| CABLE MANAGEMENT | STYLE | PAGE |
|------------------|--------------------------------------|------|
| | Pin Clip H335B Series | 90 |
| | Copper Earth Rod | 90 |
| | Earth Clip | 90 |
| | Earthing Strap | 90 |
| | Cable Holder | 91 |
| | Conduit Bender | 92 |
| CLIPS | STYLE | PAGE |
| | Battery Booster Clips | 93 |
| | Alligator Clips | 93 |
| | Test Clips | 93 |
| | Alligator & Test Clip Insulators | 93 |
| BAND CLAMPS | STYLE | PAGE |
| | Stainless Steel Band Clamp & Buckles | 94 |
| | Sheathed Band Clamp | 94 |
| | Band Clamp Tool | 94 |
| CABLE TIES | | PAGE |
| | Nylon Uti-Ties | 95 |
| | Stainless Steel Ties | 95 |
| CABLE TIE TOOLS | | PAGE |
| | Uti-Tie Tools | 96 |
| | Stainless Steel Tie Tool | 96 |



PIN CLIPS

- Manufactured from soft brass, natural finish
- No sharp edges
- Has 12.6mm hardened nail fixed in the pin clip and recessed
- Strips of six for convenient application
- Pin clips are clearly branded and marked with the size number for identification



| CAT. NO. | MATERIAL | SIZE | LENGTH mm |
|----------|--------------------------|------|-----------|
| H335B#1 | Brass with hardened nail | 1 | 38 |
| H335B#2 | Brass with hardened nail | 2 | 44 |
| H335B#3 | Brass with hardened nail | 3 | 51 |
| H335B#4 | Brass with hardened nail | 4 | 57 |
| H335B#5 | Brass with hardened nail | 5 | 64 |



COPPER EARTH RODS

| CAT. NO. | DESCRIPTION | ROD NOMINAL DIA mm | LENGTH m |
|-----------|-------------------------------|--------------------|----------|
| CUP1314WC | Domestic – pointed, with clip | 13 | 1.4 |
| CUP1318WC | Domestic – pointed, with clip | 13 | 1.8 |



EARTH CLIPS

| CAT. NO. | MATERIAL | TO SUIT EARTHROD DIA. SIZE mm |
|----------|----------|-------------------------------|
| H303A#1 | Brass | 13 |
| H303A#2 | Brass | 16 |
| H303A#3 | Brass | 19 |
| H303A#4 | Brass | 25 |



EARTHING STRAPS

| CAT. NO. | MATERIAL | LENGTH mm |
|----------|----------|-----------|
| H803A | Brass | 101 |

CABLE HOLDERS

FUNCTION: For securing electrical cable from a diameter of 30mm up to 100mm, to a power pole or beam.

DESIGN FEATURES: The design of the cable holder allows for a variety of sizes of cable, due to the variable adjustment and locking points.

The unique design features of the cable holder are the:

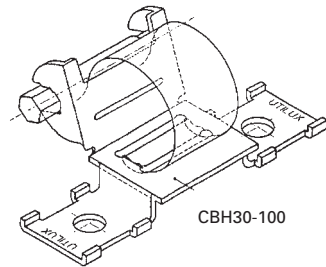
- Dual support legs which allow for dual fixing to a pole
- Optional fixing methods, either using a bolt or bandclamp strapping

MATERIAL: The clamp body is made from mild steel, which has been blanked and formed, then hot-dip galvanised.

- The strap is made from 304 grade stainless steel.
- The pin is zinc diecast.

MARKETS: The clamp has applications in power authorities, mining, railways, building and construction.

ADDITIONAL INFORMATION: A variation to this product is a vertical version, where the fixing points run parallel to the stainless steel strap.



| CAT NO. | CABLE | DESCRIPTION |
|------------|--------------|---------------------------------|
| CBH30-100 | 30-100mm dia | Pole mounted clamp - Horizontal |
| CBH30-100V | 30-100mm dia | Pole mounted clamp - Vertical |



CONDUIT BENDERS

The range of Utilux conduit benders are designed for controlled bending of steel conduit and copper pipe without crushing or local deformation occurring.

There are two sizes of bender available, 16mm – 20mm and 25mm. Each bender is made up from two parts, a high strength aluminium head and a galvanised steel handle.



| PART NO. | CONDUIT SIZE | DESCRIPTION |
|----------|--------------|-------------|
| AC2071 | 16-20mm | Head |
| AC2071H | 16-20mm | Handle |
| AC2081 | 25mm | Head |
| AC2081H | 25mm | Handle |

BATTERY BOOSTER, ALLIGATOR AND TEST CLIPS

BATTERY BOOSTER CLIPS

- All battery clips supplied in equal quantities of positive and negative
 - All clips supplied with handles
 - H811 has a copper shunt between handles
- All clips supplied with copper cable lug, screw and nut



| CAT NO. | MATERIAL | MAX. AMPS | JAW OPENING mm |
|---------|-----------------------|-----------|----------------|
| H811 | 2mm Copper | 200 | 38 |
| H812 | 2mm Steel Zinc plated | 100 | 38 |

ALLIGATOR CLIPS

- Utilux Battery Charging Clips have a high standard zinc chromate finish suitable for constant potential or series charging
- All clips feature pan head screw to ensure perfect contact



| CAT NO. | DESCRIPTION |
|---------|--|
| H141 | Nickel Plated brass 5 amp clip |
| H2790 | Nickel Plated brass 5 amp clip with barrel |

TEST CLIPS



| CAT NO. | DESCRIPTION |
|---------|------------------------------------|
| H143 | 25 amp zinc plated steel test clip |
| H144 | 50 amp zinc plated steel test clip |
| H145 | 10 amp zinc plated steel test clip |
| H170 | 15 amp zinc plated steel test clip |

ALLIGATOR AND TEST CLIP INSULATORS



| INSULATOR FOR | PACKET OF 6 RED & 6 BLACK | PACKET OF 12 RED | PACKET OF 12 BLACK |
|---------------|---------------------------|------------------|--------------------|
| H170 | H2082 | | |
| H143 | | H2083RD | H2083BK |
| H144 | H2084 | H2084RD | H2084BK |
| H2790 | H2796 | H2796RD | H2796BK |

STAINLESS STEEL BAND CLAMP & BUCKLES

- Versatile • Durable • Ease of handling • Low cost
- BAND AND BUCKLES: • stainless steel minimising corrosion • width: 10, 12, 16, 19mm
- supplied in dispensers of 30m • available in matt finish



| BAND CLAMP – MATT CAT. NO. | WIDTH mm | BUCKLES | TOOLING |
|-------------------------------|-------------|---------|---------|
| H3013M-30 | 9.5 | H3001 | #46 |
| H3016M-30 | 12 | H3004 | |
| H3019M-30 | 16 | H3007 | |
| H3022M-30 | 19 | H3010 | |



SHEATHED BAND CLAMP

- 316 grade stainless steel band clamp
- Coated with halogen free, fire retardant, low smoke compound
 - High strength corrosion resistant strapping
- Ideal for applications where safe evacuation, due to a fire could become hazardous

| CAT. NO. | WIDTH mm | THICKNESS mm | COATING mm | BUCKLE | TOOLING |
|-----------|-------------|-----------------|---------------|--------|---------|
| H82400-20 | 12.7 | 0.95 | 0.4 | H82401 | #115 |

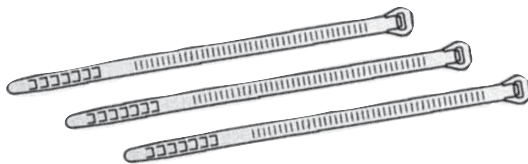
#46 BAND CLAMP TOOL

- Manufactured from high tensile steel
- Machine threaded tension screw
 - One tool for all band widths



UTI-TIES

- Durable
- Available in natural finish or weather resistant black
- Smooth edges to avoid cuts
- Tapered tip for ease of use
- Self locking system resists slippage



STANDARD NYLON TIES

| NATURAL DESCRIPT. | CAT NO. | WEATHER RESISTANT DESCRIPT. | CAT NO. | LENGTH (mm) | WIDTH (mm) | MAX BUNDLE DIA (mm) | TENSILE STRENGTH (KG) | PACK QTY |
|----------------------|---------|--------------------------------|---------|----------------|---------------|------------------------|--------------------------|-------------|
| CT802 | H31800 | CT802W | H31820 | 80 | 2.5 | 12 | 8 | 100/1000 |
| CT1002 | H31801 | CT1002W | H31821 | 102 | 2.5 | 16 | 8 | 100/1000 |
| CT1503 | H31802 | CT1503W | H31822 | 150 | 3.6 | 32 | 13 | 100/1000 |
| CT2004 | H31803 | CT2004W | H31823 | 200 | 4.8 | 44 | 22 | 100/1000 |
| CT3004 | H31804 | CT3004W | H31824 | 300 | 4.8 | 76 | 22 | 100/1000 |
| CT3704 | H31806 | CT3704W | H31826 | 370 | 4.8 | 102 | 22 | 100/1000 |

HEAVY DUTY NYLON TIES

| NATURAL DESCRIPT. | WEATHER RESISTANT DESCRIPT. | LENGTH (mm) | WIDTH (mm) | MAX BUNDLE DIA (mm) | TENSILE STRENGTH (KG) | PACK QTY |
|----------------------|--------------------------------|----------------|---------------|------------------------|--------------------------|-------------|
| CT3807 | CT3807W | 380 | 7.6 | 102 | 54 | 100/1000 |
| | CT5507W | 550 | 7.6 | 160 | 54 | 100/1000 |

EXTRA HEAVY DUTY NYLON TIES

| DESCRIPT. | LENGTH (mm) | WIDTH (mm) | MAX BUNDLE DIA (mm) | TENSILE STRENGTH (KG) | PACK QTY |
|-----------|----------------|---------------|------------------------|--------------------------|-------------|
| CT55012W | 550 | 12.7 | 160 | 110 | 100 |

STAINLESS STEEL CABLE TIES

| DESCRIPT. | LENGTH (mm) | WIDTH (mm) | MAX BUNDLE DIA (mm) | TENSILE STRENGTH (KG) | PACK QTY |
|-----------|----------------|---------------|------------------------|--------------------------|-------------|
| CT2004SS | 200 | 4.6 | 50 | 44 | 100 |
| CT3604SS | 360 | 4.6 | 100 | 44 | 100 |
| CT5204SS | 520 | 4.6 | 150 | 44 | 100 |
| CT6804SS | 680 | 4.6 | 200 | 44 | 100 |

STAINLESS STEEL CABLE TIES – HEAVY DUTY

| DESCRIPT. | LENGTH (mm) | WIDTH (mm) | MAX BUNDLE DIA (mm) | TENSILE STRENGTH (KG) | PACK QTY |
|-----------|----------------|---------------|------------------------|--------------------------|-------------|
| CT2008SS | 200 | 8 | 50 | 111 | 50 |
| CT3608SS | 360 | 8 | 100 | 111 | 50 |

CABLE TIE MOUNTS - 4 WAY

| DESCRIPT. | LENGTH (mm) | WIDTH (mm) | HEIGHT | PACK QTY |
|-----------|----------------|---------------|--------|-------------|
| TM19194 | 19 | 19 | 4 | 100 |
| TM28284 | 28 | 28 | 4 | 100 |



UTI-TIE INSTALLATION TOOL #101



DESCRIPTION

FEATURES Budget, Light weight
RANGE Suitable for 2 to 5mm wide Uti-Ties
SIZE 175mm
WEIGHT 60g

UTI-TIE INSTALLATION TOOL #68



DESCRIPTION

FEATURES Heavy duty steel, manual cut off
RANGE Suitable for 2.5 to 10mm wide Uti-Ties
SIZE 190mm
WEIGHT 320g

UTI-TIE INSTALLATION TOOL #69



DESCRIPTION

FEATURES Robust, Tension adjusting dial, auto cut off
RANGE Suitable for 2 to 4.8mm wide Uti-Ties
SIZE 165mm
WEIGHT 210g

STAINLESS STEEL CABLE TIE TENSIONER #116



DESCRIPTION

FEATURES Manual cut off
RANGE Suitable for all stainless steel ties
SIZE 210mm
WEIGHT 570g

SECTION 10

UTILUX CUSTOM CONNECTORS

REFERENCE TABLES

TOOL SELECTION CHARTS

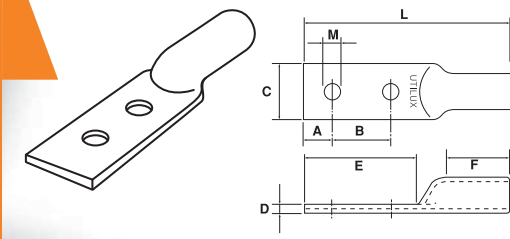
| | PAGE |
|--------------------------------------|---------|
| Utilux Custom Connectors Order Forms | 98-106 |
| Non Metric Cable Conversion Tables | 107 |
| Useful Reference Tables | 108-117 |
| Termination Theory & Practices | 118 |
| Utilux Metric Coding System | 121 |
| Application Tooling Design Features | 122 |

CUSTOM CONNECTORS REQUEST



COPPER LUGS CG

- 1. Tick a box to identify the standard blank which is closest to your required design.
- 2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
- 3. Enter your required dimensions staying within the guidelines in the standards table.
- 4. Complete customer contact and authorisation details. Please note all details are mandatory.
- 5. Fax to Utilux Custom Connectors.



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | A Min | B Max | C Ref | D Ref | E Max | F Max | L Max | M Max |
|-----------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| <input type="checkbox"/> CGX25/1 | 25 | 8.0 | 54 | 16.7 | 1.9 | 70 | 40 | 115 | M10 |
| <input type="checkbox"/> CGX35/1 | 35 | 8.0 | 74 | 18.2 | 2.7 | 90 | 45 | 140 | M12 |
| <input type="checkbox"/> CGX50/1 | 50 | 11.0 | 78 | 20.6 | 2.8 | 100 | 50 | 159 | M12 |
| <input type="checkbox"/> CGX70/1 | 70 | 11.0 | 78 | 21.0 | 3.2 | 100 | 50 | 161 | M12 |
| <input type="checkbox"/> CGX95/1 | 95 | 12.0 | 76 | 25.0 | 4.0 | 100 | 50 | 163 | M12 |
| <input type="checkbox"/> CGX120/1 | 120 | 15.0 | 70 | 30.0 | 4.8 | 100 | 50 | 165 | M20 |
| <input type="checkbox"/> CGX150/1 | 150 | 18.0 | 64 | 34.0 | 5.4 | 100 | 50 | 166 | M20 |
| <input type="checkbox"/> CGX185/1 | 185 | 18.0 | 64 | 37.0 | 5.2 | 100 | 55 | 173 | M20 |
| <input type="checkbox"/> CGX240/1 | 240 | 23.0 | 64 | 42.0 | 7.1 | 110 | 90 | 191 | M20 |
| <input type="checkbox"/> CGX300/1 | 300 | 23.0 | 64 | 46.0 | 7.9 | 110 | 90 | 192 | M20 |
| <input type="checkbox"/> CGX400/1 | 400 | 23.0 | 64 | 49.6 | 7.9 | 110 | 70 | 207 | M20 |
| <input type="checkbox"/> CGX500/1 | 500 | 23.0 | 64 | 54.8 | 8.2 | 110 | 70 | 213 | M20 |
| <input type="checkbox"/> CGX630/1 | 630 | 25.0 | 50 | 63.5 | 11.5 | 100 | 70 | 205 | M20 |

2. CONDUCTOR DETAILS

☐ Metric ☐ Imperial

☐ Flexible Area: _____ mm²/in²

☐ Compacted Stranding: _____

☐ Other

Comments: _____

3. REQUIRED SPECIFICATIONS

Dimensions:

A: _____ mm

B: _____ mm²

E: _____ mm

F: _____ mm

L: _____ mm

Stud M: _____ mm

Qty: _____

4. CUSTOMER DETAILS

Company: _____

Requested by: _____

Tel: _____

Purchase Order No: _____

TE INTERNAL SALES USE ONLY

Part No: CG _____

Sales Order No: _____

Drawing No: _____

Entered by: _____

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

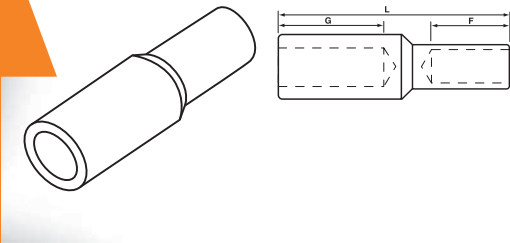
SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST



COPPER LINKS CKR

1. **Tick a box to identify the standard blank** which is closest to your required design.
2. **Complete the Conductor Details section** inserting your requirements. **Please note all details are mandatory.**
3. **Enter your required dimensions** staying within the guidelines in the standards table.
4. **Complete customer contact and authorisation details.** **Please note all details are mandatory.**
5. **Fax to Utilux Custom Connectors.**



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | F Recommended Lengths | G | L Max |
|---------------------------------------|---------------------------------|-----------------------|----|-------|
| <input type="checkbox"/> CKX10-35/1 | 10-35 | 24 | 24 | 60 |
| <input type="checkbox"/> CKX50-70/1 | 50-70 | 24 | 24 | 60 |
| <input type="checkbox"/> CKX95-120/1 | 95-120 | 38 | 38 | 92 |
| <input type="checkbox"/> CKX150-185/1 | 150-185 | 38 | 38 | 92 |
| <input type="checkbox"/> CKX240-300/1 | 240-300 | 44 | 44 | 237 |
| <input type="checkbox"/> CKX400-500/1 | 400-500 | 59 | 59 | 145 |
| <input type="checkbox"/> CKX630/1 | 630 | 59 | 59 | 145 |

2. CONDUCTOR DETAILS

| LARGE END | | SMALL END | |
|--|-----------------------------------|--|-----------------------------------|
| <input type="checkbox"/> Metric | <input type="checkbox"/> Imperial | <input type="checkbox"/> Metric | <input type="checkbox"/> Imperial |
| Area: mm ² /in ² | | Area: mm ² /in ² | |
| <input type="checkbox"/> Flexible | | <input type="checkbox"/> Flexible | |
| Stranding: | | Stranding: | |
| <input type="checkbox"/> Compacted | | <input type="checkbox"/> Compacted | |
| <input type="checkbox"/> Other | | <input type="checkbox"/> Other | |
| Comments: | | | |

3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

F: _____ mm

G: _____ mm

Qty: _____

4. CUSTOMER DETAILS

Company: _____

Requested by: _____

Tel: _____

Purchase Order No: _____

TE INTERNAL SALES USE ONLY

Part No: CKR

Sales Order No: _____

Drawing No: _____

Entered by: _____

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM
WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

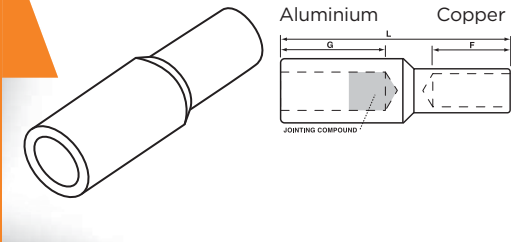
SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST



BI-METAL LINKS BKR

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax to Utilux Custom Connectors.



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | Copper - F Recommended | Aluminium - G Lengths | L Max |
|---------------------------------------|---------------------------------|------------------------|-----------------------|-------|
| <input type="checkbox"/> BKK10-35/1 | 10-35 | 21.5 | 32 | 70 |
| <input type="checkbox"/> BKK50-70/1 | 50-70 | 21.5 | 32 | 70 |
| <input type="checkbox"/> BKK95-120/1 | 95-120 | 40 | 60 | 120 |
| <input type="checkbox"/> BKK150-185/1 | 150-185 | 40 | 60 | 120 |
| <input type="checkbox"/> BKK240-300/1 | 240-300 | 40 | 60 | 120 |
| <input type="checkbox"/> BKK400-630/1 | 400-630 | 60 | 70 | 160 |

2. CONDUCTOR DETAILS

| | | | |
|--|-----------------------------------|--|-----------------------------------|
| LARGE END: MATERIAL - Al | | SMALL END: MATERIAL - Cu | |
| <input type="checkbox"/> Metric | <input type="checkbox"/> Imperial | <input type="checkbox"/> Metric | <input type="checkbox"/> Imperial |
| Area: mm ² /in ² | | Area: mm ² /in ² | |
| <input type="checkbox"/> Flexible | | <input type="checkbox"/> Flexible | |
| <input type="checkbox"/> Compacted | Stranding: | <input type="checkbox"/> Compacted | Stranding: |
| <input type="checkbox"/> Other | | <input type="checkbox"/> Other | |

Comments:

3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

F: mm

G: mm

Qty:

4. CUSTOMER DETAILS

Company:

Requested by:

Tel:

Purchase Order No:

TE INTERNAL SALES USE ONLY

Part No: BKR

Sales Order No:

Drawing No:

Entered by:

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

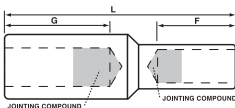
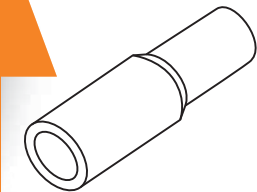
ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM
WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST

ALUMINIUM LINKS AKR

1. **Tick a box to identify the standard blank** which is closest to your required design.
2. **Complete the Conductor Details section** inserting your requirements. **Please note all details are mandatory.**
3. **Enter your required dimensions** staying within the guidelines in the standards table.
4. **Complete customer contact and authorisation details.** **Please note all details are mandatory.**
5. **Fax to Utilux Custom Connectors.**



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | F Recommended Lengths | G | L Max |
|---------------------------------------|---------------------------------|-----------------------|----|-------|
| <input type="checkbox"/> AKX10-35/1 | 10-35 | 32 | 32 | 80 |
| <input type="checkbox"/> AKX50-70/1 | 50-70 | 32 | 32 | 136 |
| <input type="checkbox"/> AKX95-120/1 | 95-120 | 60 | 60 | 136 |
| <input type="checkbox"/> AKX150-185/1 | 150-185 | 60 | 60 | 142 |
| <input type="checkbox"/> AKX240-300/1 | 240-300 | 60 | 60 | 142 |
| <input type="checkbox"/> AKX400-630/1 | 400-630 | 70 | 70 | 142 |

2. CONDUCTOR DETAILS

LARGE END

☐ Metric ☐ Imperial Area: mm²/in²

☐ Flexible

☐ Compacted

☐ Other

Stranding:

SMALL END

☐ Metric ☐ Imperial Area: mm²/in²

☐ Flexible

☐ Compacted

☐ Other

Stranding:

Comments:

3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

F: mm

G: mm

Qty:

4. CUSTOMER DETAILS

Company:

Requested by:

Tel:

Purchase Order No:

TE INTERNAL SALES USE ONLY

Part No: AKR

Sales Order No:

Drawing No:

Entered by:

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM
WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

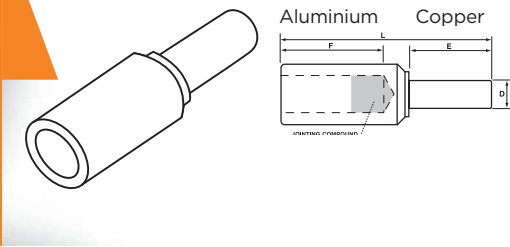
SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST



BI-METAL STALK LUGS BS

- 1. Tick a box to identify the standard blank which is closest to your required design.
- 2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
- 3. Enter your required dimensions staying within the guidelines in the standards table.
- 4. Complete customer contact and authorisation details. Please note all details are mandatory.
- 5. Fax to Utilux Custom Connectors.



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | D Max | E - Cu Max | F - Al Max | L Max |
|---------------------------------------|---------------------------------|-------|------------|------------|-------|
| <input type="checkbox"/> BSX10-35/1 | 10-35 | 12 | 30 | 32 | 70 |
| <input type="checkbox"/> BSX50-70/1 | 50-70 | 16 | 30 | 32 | 70 |
| <input type="checkbox"/> BSX95-120/1 | 95-120 | 22 | 50 | 60 | 120 |
| <input type="checkbox"/> BSX150-185/1 | 150-185 | 26 | 50 | 60 | 120 |
| <input type="checkbox"/> BSX240-300/1 | 240-300 | 33 | 50 | 60 | 120 |
| <input type="checkbox"/> BSX400-630/1 | 400-630 | 45 | 70 | 70 | 160 |

2. CONDUCTOR DETAILS

☐ Metric ☐ Imperial

☐ Flexible Area: _____ mm²/in²

☐ Compacted Stranding: _____

☐ Other

Comments: _____

3. REQUIRED SPECIFICATIONS

Stalk Diameter (D): _____ mm

Dimensions: (IF NON-STANDARD)

E: _____ mm

F: _____ mm

Qty: _____

4. CUSTOMER DETAILS

Company: _____

Requested by: _____

Tel: _____

Purchase Order No: _____

TE INTERNAL SALES USE ONLY

Part No: BS

Sales Order No: _____

Drawing No: _____

Entered by: _____

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

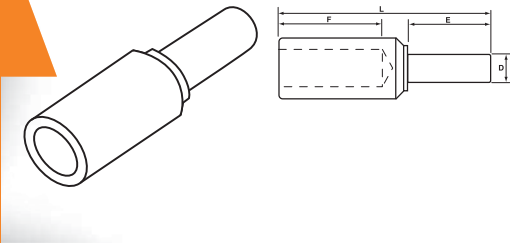
SPECIALY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST



COPPER STALK LUGS CS

1. **Tick a box to identify the standard blank** which is closest to your required design.
2. **Complete the Conductor Details section** inserting your requirements. **Please note all details are mandatory.**
3. **Enter your required dimensions** staying within the guidelines in the standards table.
4. **Complete customer contact and authorisation details.** **Please note all details are mandatory.**
5. **Fax to Utilux Custom Connectors.**



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | D Max | E Recommended | F Length | L Max |
|---------------------------------------|---------------------------------|-------|---------------|----------|-------|
| <input type="checkbox"/> CSX10-35/1 | 10-35 | 12 | 50 | 21.5 | 92 |
| <input type="checkbox"/> CSX50-70/1 | 50-70 | 16 | 50 | 21.5 | 92 |
| <input type="checkbox"/> CSX95-120/1 | 95-120 | 22 | 50 | 35 | 237 |
| <input type="checkbox"/> CSX150-185/1 | 150-185 | 26 | 70 | 35 | 237 |
| <input type="checkbox"/> CSX240-300/1 | 240-300 | 33 | 90 | 50 | 237 |
| <input type="checkbox"/> CSX400-500/1 | 400-500 | 39 | 100 | 60 | 212 |

2. CONDUCTOR DETAILS

- ☐ Metric ☐ Imperial
- ☐ Flexible
- ☐ Compacted
- ☐ Other

Area: _____ mm²/in²

Stranding: _____

Comments: _____

3. REQUIRED SPECIFICATIONS

Stalk Diameter (D): _____ mm

Dimensions: (IF NON-STANDARD)

E: _____ mm

F: _____ mm

Qty: _____

4. CUSTOMER DETAILS

Company: _____

Requested by: _____

Tel: _____

Purchase Order No: _____

TE INTERNAL SALES USE ONLY

Part No: CS

Sales Order No: _____

Drawing No: _____

Entered by: _____

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM
WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

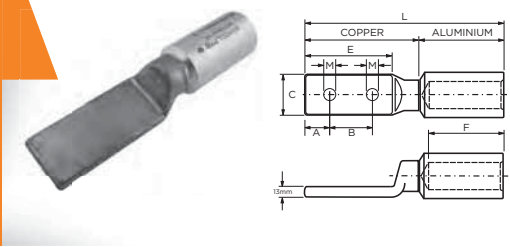
SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST



BI-METAL LONG PALM LUGS BGLP

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax to Utilux Custom Connectors.



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Range mm ² | A Min | B Max | C Ref | E Max | F Max | L Max | M Max |
|---------------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| <input type="checkbox"/> BGLPX95-120 | 95-120 | 12 | 81 | 50 | 105 | 70 | 240 | m20 |
| <input type="checkbox"/> BGLPX150-185 | 150-185 | 18 | 69 | 50 | 105 | 70 | 240 | m20 |
| <input type="checkbox"/> BGLPX240-300 | 240-300 | 23 | 59 | 50 | 105 | 70 | 240 | m20 |
| <input type="checkbox"/> BGLPX400-630 | 400-630 | 23 | 59 | 50 | 105 | 70 | 240 | m20 |

2. CONDUCTOR DETAILS

☐ Metric ☐ Imperial

☐ Flexible

☐ Compacted

☐ Other

Area: mm²/in²

Stranding:

3. REQUIRED SPECIFICATIONS

Dimensions:

A: mm B: mm

E: mm F: mm

L: mm Stud M: mm

Qty:

4. CUSTOMER DETAILS

Company:

Requested by:

Tel:

Purchase Order No:

TE INTERNAL SALES USE ONLY

Part No: BGLP

Sales Order No:

Drawing No:

Entered by:

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

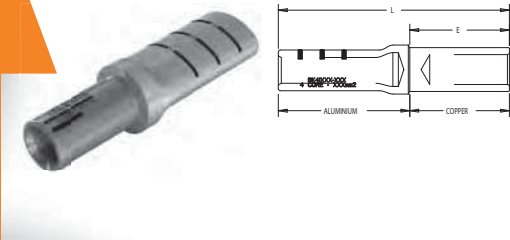
ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST

BI-METAL SECTOR LINKS BKS

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax to Utilux Custom Connectors.



1. STANDARDS & GUIDELINES

All dimensions in mm

| Catalogue No. | Conductor Sector mm ² | Conductor Range Copper - mm ² | Copper - E Length Max | L Max |
|-------------------------------|----------------------------------|--|-----------------------|-------|
| <input type="checkbox"/> BKSX | 35-240 | 16-300 | 70 | 160 |

2. CONDUCTOR DETAILS

SECTOR END: MATERIAL - AI

- ☐ 3 Core
- ☐ 35mm²
- ☐ 50mm²
- ☐ 70mm²
- ☐ 4 Core
- ☐ 95mm²
- ☐ 120mm²
- ☐ 150mm²
- ☐ 185mm²
- ☐ 240mm²

SMALL END: MATERIAL - Cu

- ☐ Metric
- ☐ Imperial
- ☐ Flexible
- ☐ Compacted
- ☐ Other

Area: mm²/in²

Stranding:

3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

E: _____ mm Qty: _____

Comments: _____

4. CUSTOMER DETAILS

Company: _____

Requested by: _____

Tel: _____

Purchase Order No: _____

TE INTERNAL SALES USE ONLY

Part No: BKS

Sales Order No: _____

Drawing No: _____

Entered by: _____

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM
WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

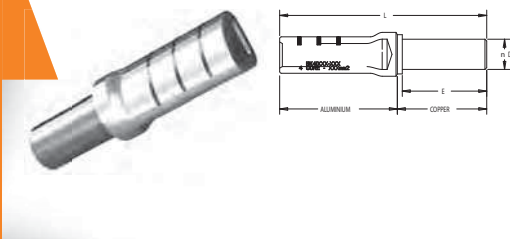
SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CUSTOM CONNECTORS REQUEST



BI-METAL SECTOR STALK LUGS BSS

- 1. Tick a box to identify the standard blank which is closest to your required design.
- 2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
- 3. Enter your required dimensions staying within the guidelines in the standards table.
- 4. Complete customer contact and authorisation details. Please note all details are mandatory.
- 5. Fax to Utilux Custom Connectors.



1. STANDARDS & GUIDELINES

| All dimensions in mm | | | | |
|-------------------------------|------------------------|-------|------------|-------|
| Catalogue No. | Sector mm ² | D Max | E - Cu Max | L Max |
| <input type="checkbox"/> BSSX | 35-240 | 35 | 70 | 160 |

2. CONDUCTOR DETAILS

SECTOR END: MATERIAL - AI

- ☐ 3 Core
- ☐ 35mm²
- ☐ 50mm²
- ☐ 70mm²
- ☐ 95mm²
- ☐ 120mm²
- ☐ 150mm²
- ☐ 185mm²
- ☐ 240mm²
- ☐ 4 Core

3. REQUIRED SPECIFICATIONS

Stalk Diameter (D): mm

Dimensions: (IF NON-STANDARD)

E: mm

Qty:

Comments:

4. CUSTOMER DETAILS

Company:

Requested by:

Tel:

Purchase Order No:

TE INTERNAL SALES USE ONLY

Part No: BSS

Sales Order No:

Drawing No:

Entered by:

5. FAX THIS FORM TO YOUR PREFERRED MIDDY'S BRANCH

ORDERS FAXED TO UTILUX CUSTOM CONNECTORS BY 3PM WILL BE DESPATCHED BY 3PM WITHIN 2 BUSINESS DAYS OF FAX STAMP DATE

SPECIALLY MANUFACTURED PRODUCTS CANNOT BE RETURNED FOR CREDIT.

CONVERSION TABLES FOR NON-METRIC CABLE SIZES

| BRITISH STANDARD WIRE GAUGE SWG | METRIC EQUIVALENT (sqmm) |
|---------------------------------------|--------------------------------|
| 33 | 0.0507 |
| 32 | 0.0591 |
| 31 | 0.0682 |
| 30 | 0.0779 |
| 29 | 0.0937 |
| 28 | 0.0111 |
| 27 | 0.0136 |
| 26 | 0.0164 |
| 25 | 0.0203 |
| 24 | 0.0245 |
| 23 | 0.0292 |
| 22 | 0.0397 |
| 21 | 0.0519 |
| 20 | 0.0657 |
| 19 | 0.81 |
| 18 | 1.17 |
| 17 | 1.59 |
| 16 | 2.08 |
| 15 | 2.63 |
| 14 | 3.24 |
| 13 | 4.29 |
| 12 | 5.48 |
| 10 | 8.30 |

| IMPERIAL (sqIN) | METRIC EQUIVALENT (sqmm) |
|--------------------|--------------------------------|
| 0.001 | 0.657 |
| 0.0015 | 0.981 |
| 0.002 | 1.28 |
| 0.003 | 1.97 |
| 0.0032 | 2.08 |
| 0.0045 | 2.98 |
| 0.007 | 4.60 |
| 0.01 | 6.81 |
| 0.0145 | 9.59 |
| 0.0225 | 14.5 |
| 0.03 | 18.6 |
| 0.04 | 26.0 |
| 0.06 | 39.4 |
| 0.075 | 49.9 |
| 0.1 | 66.3 |
| 0.12 | 76.8 |
| 0.15 | 97.2 |
| 0.2 | 129 |
| 0.25 | 162 |
| 0.3 | 199 |
| 0.4 | 267 |
| 0.5 | 328 |
| 0.6 | 399 |
| 0.75 | 489 |
| 0.85 | 557 |
| 1.0 | 683 |
| 1.25 | 807 |
| 1.5 | 1050 |

| AMERICAN WIRE GAUGE AWG | METRIC EQUIVALENT (sqmm) | AMERICAN WIRE GAUGE AWG | METRIC EQUIVALENT (sqmm) |
|-------------------------------|--------------------------------|-------------------------------|--------------------------------|
| 30 | 0.0507 | 250 MCM | 127 |
| 29 | 0.0645 | 300 MCM | 152 |
| 28 | 0.0806 | 350 MCM | 177 |
| 27 | 0.102 | 400 MCM | 203 |
| 26 | 0.128 | 450 MCM | 228 |
| 25 | 0.163 | 500 MCM | 253 |
| 24 | 0.205 | 550 MCM | 279 |
| 23 | 0.259 | 600 MCM | 304 |
| 22 | 0.324 | 650 MCM | 329 |
| 21 | 0.412 | 700 MCM | 355 |
| 20 | 0.519 | 750 MCM | 380 |
| 19 | 0.652 | 800 MCM | 405 |
| 18 | 0.826 | 850 MCM | 431 |
| 17 | 1.04 | 900 MCM | 456 |
| 16 | 1.31 | 950 MCM | 481 |
| 15 | 1.65 | 1000 MCM | 507 |
| 14 | 2.08 | 1100 MCM | 557 |
| 13 | 2.63 | 1200 MCM | 608 |
| 12 | 3.31 | 1300 MCM | 659 |
| 11 | 4.17 | 1400 MCM | 709 |
| 10 | 5.26 | 1500 MCM | 760 |
| 9 | 6.63 | 1600 MCM | 811 |
| 8 | 8.37 | 1700 MCM | 861 |
| 7 | 10.6 | 1800 MCM | 912 |
| 6 | 13.3 | 1900 MCM | 963 |
| 5 | 16.8 | 2000 MCM | 1010 |
| 4 | 21.2 | | |
| 3 | 26.7 | | |
| 2 | 33.6 | | |
| 1 | 42.4 | | |
| 0 | 53.5 | | |
| 2/0 | 67 | | |
| 3/0 | 85 | | |
| 4/0 | 107 | | |

USEFUL REFERENCE TABLES

APPENDIX A

FITTINGS FOR BARE OVERHEAD ALL ALUMINIUM CONDUCTORS (AAC)

| CODE NAME | STRAND | NON TENSION SLEEVE | DIE | FULL TENSION SLEEVE | DIE | JUMPER SLEEVE | DIE | ALUMINIUM LUG 1 HOLE | DIE | ALUMINIUM LUG 2 HOLE | DIE | TERM. ADAPTOR TYPE | DIE | BI-METAL LUG DIE |
|-----------|---------|--------------------|----------|---------------------|----------|---------------|----------|----------------------|----------|----------------------|----------|--------------------|----------|------------------|
| Gemini | 7/1.75 | NT36 | 38-132AL | FT36A | 38-132AL | JS36R | 38-132AL | SL36 | 38-132AL | AL36 | 38-132AL | BA36 | 38-132AL | H15304 38-90AL |
| Jupiter | 7/2.25 | NT36 | 38-140AL | FT36A | 38-140AL | JS36R | 38-140AL | SL36 | 38-140AL | AL36 | 38-140AL | BA36 | 38-140AL | H15306 38-90AL |
| Leo | 7/2.50 | NT36 | 38-140AL | FT36A | 38-140AL | JS36R | 38-140AL | SL36 | 38-140AL | AL36 | 38-140AL | BA36 | 38-140AL | H15308 38-90AL |
| Leondis | 7/2.75 | NT44 | 38-173AL | FT44A | 38-173AL | JS44R | 38-173AL | SL44 | 38-173AL | AL44 | 38-173AL | | | H15308 38-90AL |
| Libra | 7/3.00 | NT44 | 38-180AL | FT44A | 38-173AL | JS44R | 38-180AL | SL44 | 38-180AL | AL44 | 38-180AL | | | H15311 38-132AL |
| Mars | 7/3.75 | NT50 | 38-180AL | FT50A | 38-180AL | JS50R | 38-180AL | SL50 | 38-180AL | AL50 | 38-180AL | BA50 | 38-180AL | H15317 38-173AL |
| Mercury | 7/4.50 | NT58 | 38-190AL | FT58A | 38-190AL | JS58R | 38-190AL | SL58 | 38-190AL | AL58 | 38-190AL | BA58 | 38-190AL | H15320 38-173AL |
| Mercury | 7/4.50 | NT61 | 38-220AL | FT61A | 38-220AL | JS61R | 38-220AL | SL61 | 38-220AL | AL61 | 38-220AL | BA61 | 38-220AL | H15320 38-173AL |
| Moon | 7/4.75 | NT61 | 38-220AL | FT61A | 38-220AL | JS61R | 38-220AL | SL61 | 38-220AL | AL61 | 38-220AL | BA61 | 38-220AL | H15320 38-173AL |
| Neptune | 19/3.25 | NT68 | 38-220AL | FT68A | 38-220AL | JS68R | 38-220AL | SL68 | 38-220AL | AL68 | 38-220AL | BA68 | 38-220AL | H15323 38-220AL |
| Orion | 19/3.50 | NT80 | 38-250AL | FT80A | 38-250AL | JS80R | 38-250AL | SL80 | 38-250AL | AL80 | 38-250AL | BA80 | 38-250AL | H15326 38-220AL |
| Pluto | 19/3.75 | NT80 | 38-262AL | FT80A | 38-262AL | JS80R | 38-262AL | SL80 | 38-262AL | AL80 | 38-262AL | BA80 | 38-262AL | H15329 38-284AL |
| Saturn | 37/3.00 | NT94 | 38-284AL | FT94A | 38-284AL | JS94R | 38-284AL | SL94 | 38-284AL | AL94 | 38-284AL | | | H15332 38-284AL |
| Sirius | 37/3.25 | NT94 | 38-284AL | FT94A | 38-284AL | JS94R | 38-284AL | SL94 | 38-284AL | AL94 | 38-284AL | | | H15332 38-284AL |
| Taurus | 19/4.75 | NT94 | 38-303AL | FT94A | 38-303AL | JS94R | 38-303AL | SL94 | 38-303AL | AL94 | 38-303AL | | | H15334 38-390AL |
| Triton | 37/3.75 | NT114 | 40-432AL | FT114A | 40-432AL | | | | | | | | | |

FITTINGS FOR BARE OVERHEAD ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)

| CODE NAME | STRAND | NON TENSION SLEEVE | DIE | FULL TENSION SLEEVE | DIE | JUMPER SLEEVE | DIE | ALUMINIUM LUG 1 HOLE | DIE | ALUMINIUM LUG 2 HOLE | DIE | TERM. ADAPTOR TYPE | DIE | BI-METAL LUG DIE |
|-----------|------------------|--------------------|----------|---------------------|----------|---------------|----------|----------------------|----------|----------------------|----------|--------------------|----------|------------------|
| Quince | 3/4/1.75 | NT36 | 38-132AL | | | JS36R | 38-132AL | SL36 | 38-132AL | AL36 | 38-132AL | BA36 | 38-132AL | H15304 38-90AL |
| Almond | 6/1/2.50 | NT36 | 38-140AL | FT36R | 38-140AL | JS36R | 38-140AL | SL36 | 38-140AL | AL36 | 38-140AL | BA36 | 38-140AL | H15308 38-90AL |
| Raisin | 3/4/2.50 | NT36 | 38-140AL | | | JS36R | 38-140AL | SL36 | 38-140AL | AL36 | 38-140AL | BA36 | 38-140AL | H15308 38-90AL |
| Apricot | 6/1/2.75 | NT44 | 38-173AL | FT44R | 38-173AL | JS44R | 38-173AL | SL44 | 38-173AL | AL44 | 38-173AL | BA44 | 38-173AL | H15308 38-90AL |
| Apple | 6/1/3.00 | NT44 | 38-173AL | FT44R | 38-173AL | JS44R | 38-173AL | SL44 | 38-173AL | AL44 | 38-173AL | BA44 | 38-173AL | H15311 38-132AL |
| Sultana | 4/3/3.00 | NT44 | 38-180AL | | | JS44R | 38-180AL | SL44 | 38-180AL | AL44 | 38-180AL | BA44 | 38-180AL | H15311 38-132AL |
| Banana | 6/1/3.75 | NT50 | 38-180AL | FT50R | 38-180AL | JS50R | 38-180AL | SL50 | 38-180AL | AL50 | 38-180AL | BA50 | 38-180AL | H15317 38-173AL |
| Walnut | 4/3/3.75 | NT50 | 38-180AL | | | JS50R | 38-180AL | SL50 | 38-180AL | AL50 | 38-180AL | BA50 | 38-180AL | H15317 38-173AL |
| Cherry | 6/4.75 7/1.60 | NT61 | 38-220AL | FT61R | 38-220AL | JS61R | 38-220AL | SL61 | 38-220AL | AL61 | 38-220AL | BA61 | 38-220AL | H15320 38-173AL |
| Grape | 30/7/2.50 | NT80 | 38-250AL | | | JS80R | 38-250AL | SL80 | 38-250AL | AL80 | 38-250AL | | | H15326 38-220AL |
| Fig | 18/13/3.50 | NT80 | 38-250AL | FT80R | 38-250AL | JS80R | 38-250AL | SL80 | 38-250AL | AL80 | 38-250AL | | | H15326 38-220AL |
| Lemon | 30/7/3.00 | NT94 | 38-284AL | | | | | | | | | | | |

USEFUL REFERENCE TABLES

AUSTRALIAN STANDARD METRIC CONDUCTORS

ACSR/AC – ALUMINIUM CONDUCTOR (ALUMINIUM CLAD) STEEL REINFORCED.

Aust. Standard – AS1220 PART 3

| CODE NAME | STRANDS/ WIRE DIAMETER mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIVALENT ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MINIMUM BREAKING LOAD kN | APPROXIMATE MASS PER KM kg |
|----------------------------|------------------------------------|---------------------------------------|---|--------------------------------------|--|-------------------------------------|
| Angling | 6/1/2.50 | 7.50 | 30.7 | 34.36 | 10.7 | 113 |
| Archery | 6/1/3.00 | 9.00 | 44.1 | 49.48 | 15.0 | 163 |
| Baseball | 6/1/3.75 | 11.3 | 68.9 | 77.31 | 22.4 | 255 |
| Bowls | 6/4.75+7/1.60 | 14.3 | 109 | 120.4 | 32.6 | 385 |
| Cricket | 30/7/2.50 | 17.5 | 155 | 181.6 | 64.6 | 635 |
| Darts | 30/7/3.00 | 21.0 | 224 | 261.5 | 91.3 | 913 |
| Diving | 30/7/3.50 | 24.5 | 305 | 356.0 | 121 | 1240 |
| Golf | 54/7/3.00 | 27.0 | 390 | 431.2 | 119 | 1380 |
| Gymnastics | 54/7/3.25 | 29.3 | 457 | 506.0 | 138 | 1620 |
| Hurdles | 54/7/3.50 | 31.5 | 530 | 586.9 | 159 | 1880 |
| Lacrosse | 54/3.75+19/2.25 | 33.8 | 608 | 671.7 | 181 | 2150 |
| Rugby | 54/4.75+19/2.85 | 42.8 | 976 | 1078 | 287 | 3450 |
| EXTRA HIGH STRENGTH | | | | | | |
| Skating | 3/4/1.75 | 5.25 | 10.4 | 16.84 | 12.3 | 83.5 |
| Soccer | 3/4/2.50 | 7.50 | 21.2 | 34.36 | 24.9 | 170 |
| Swimming | 4/3/3.00 | 9.00 | 35.2 | 49.48 | 28.8 | 217 |
| Tennis | 4/3/3.75 | 11.3 | 54.9 | 77.31 | 42.8 | 339 |

USEFUL REFERENCE TABLES

AUSTRALIAN STANDARD METRIC CONDUCTORS

AAC – ALL ALUMINIUM CONDUCTOR

Aust. Standard – AS1531 PART 1

| CODE NAME | STRANDS/ WIRE DIAMETER mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIVALENT ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MINIMUM BREAKING LOAD kN | APPROXIMATE MASS PER KM kg |
|-----------|------------------------------------|---------------------------------------|---|--------------------------------------|--|-------------------------------------|
| Gemini | 7/1.75 | 5.25 | 16.6 | 16.84 | 3.01 | 46.1 |
| Jupiter | 7/2.25 | 6.75 | 27.5 | 27.83 | 4.76 | 75.9 |
| Leo | 7/2.50 | 7.50 | 33.9 | 34.36 | 5.75 | 94.3 |
| Libra | 7/3.00 | 9.00 | 48.8 | 49.48 | 7.91 | 135 |
| Mars | 7/3.75 | 11.3 | 76.3 | 77.31 | 11.9 | 212 |
| Mercury | 7/4.50 | 13.5 | 110 | 111.3 | 16.8 | 305 |
| Moon | 7/4.75 | 14.3 | 122 | 124.0 | 18.8 | 340 |
| Neptune | 19/3.25 | 16.3 | 155 | 157.6 | 24.7 | 433 |
| Pluto | 19/3.75 | 18.8 | 206 | 209.8 | 32.3 | 578 |
| Saturn | 37/3.00 | 21.0 | 256 | 261.5 | 41.8 | 721 |
| Taurus | 19/4.75 | 23.8 | 331 | 336.7 | 50.9 | 926 |
| Triton | 37/3.75 | 26.3 | 400 | 408.7 | 62.9 | 1130 |
| Uranus | 61/3.25 | 29.3 | 493 | 506.0 | 75.2 | 1400 |
| Venus | 61/3.75 | 33.8 | 659 | 673.7 | 98.3 | 1860 |
| Virgo | 91/4.50 | 49.5 | 1410 | 1447 | 207 | 4010 |

AAAC – ALL ALUMINIUM ALLOY CONDUCTOR

Aust. Standard – AS1531 PART 2

| CODE NAME | STRANDS/ WIRE DIAMETER mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIVALENT ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MINIMUM BREAKING LOAD kN | APPROXIMATE MASS PER KM kg |
|-----------|------------------------------------|---------------------------------------|---|--------------------------------------|--|-------------------------------------|
| Agate | 7/1.75 | 5.25 | 14.3 | 16.84 | 4.71 | 46.1 |
| Amethyst | 7/2.25 | 6.75 | 23.7 | 27.83 | 7.78 | 75.9 |
| Diamond | 7/2.50 | 7.50 | 29.3 | 34.36 | 9.64 | 94.3 |
| Emerald | 7/3.00 | 9.00 | 42.1 | 49.48 | 13.9 | 135 |
| Garnet | 7/3.75 | 11.3 | 65.8 | 77.31 | 21.7 | 211 |
| Jade | 7/4.50 | 13.5 | 94.8 | 111.3 | 31.2 | 304 |
| Jasper | 7/4.75 | 14.3 | 106 | 124.0 | 34.8 | 339 |
| Opal | 19/3.25 | 16.3 | 134 | 157.6 | 44.2 | 433 |
| Pearl | 19/3.75 | 18.8 | 178 | 209.8 | 58.8 | 576 |
| Ruby | 37/3.00 | 21.0 | 221 | 261.5 | 73.5 | 721 |
| Rutile | 19/4.75 | 23.8 | 285 | 336.7 | 94.4 | 924 |
| Sapphire | 37/3.75 | 26.3 | 345 | 408.7 | 115 | 1120 |
| Spinel | 61/3.25 | 29.3 | 426 | 506.0 | 135 | 1400 |
| Topaz | 61/3.75 | 33.8 | 568 | 673.7 | 179 | 1860 |
| Zircon | 91/4.50 | 49.5 | 1220 | 1447 | 384 | 4000 |

USEFUL REFERENCE TABLES

AUSTRALIAN STANDARD METRIC CONDUCTORS

SC/GZ – STEEL CONDUCTOR/GALVANISED

Aust. Standard – AS1222 PART 1

| STRANDS/WIRE DIAMETER /mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIV. ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MIN. BREAKING LOAD kN | APPROXIMATE MASS PER Km kg |
|------------------------------|---------------------------------|---|-----------------------------------|-------------------------------------|-------------------------------|
| 3/2.00 | 4.31 | 1.56 | 9.425 | 11.7 | 75.5 |
| 3/2.75 | 5.93 | 2.95 | 17.82 | 22.2 | 139 |
| 7/2.00 | 6.00 | 3.62 | 21.99 | 27.4 | 177 |
| 7/2.75 | 8.25 | 6.85 | 41.58 | 51.8 | 326 |
| 7/3.25 | 9.75 | 9.56 | 58.07 | 72.3 | 460 |
| 7/3.75 | 11.3 | 12.7 | 77.31 | 96.2 | 609 |
| 19/2.00 | 10.0 | 9.79 | 59.69 | 74.4 | 483 |
| 19/2.75 | 13.8 | 18.5 | 112.9 | 141.0 | 888 |
| 19/3.25 | 16.3 | 25.8 | 157.6 | 196.0 | 1250 |

SC/AC – STEEL CONDUCTOR/ALUMINIUM CLAD

Aust. Standard – AS1222 PART 2

| STRANDS/WIRE DIAMETER /mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIV. ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MIN. BREAKING LOAD kN | APPROXIMATE MASS PER Km kg |
|------------------------------|---------------------------------|---|-----------------------------------|-------------------------------------|-------------------------------|
| 3/2.75 | 5.93 | 5.91 | 17.82 | 22.7 | 118 |
| 3/3.00 | 6.47 | 7.03 | 21.21 | 27.0 | 141 |
| 3/3.25 | 7.00 | 8.26 | 24.89 | 31.6 | 165 |
| 3/3.75 | 8.08 | 11.0 | 33.13 | 40.0 | 220 |
| 7/2.75 | 8.25 | 13.7 | 41.58 | 50.1 | 277 |
| 7/3.00 | 9.00 | 16.3 | 49.48 | 59.7 | 330 |
| 7/3.25 | 9.75 | 19.2 | 58.07 | 69.8 | 387 |
| 7/3.75 | 11.3 | 25.5 | 77.31 | 88.3 | 515 |
| 7/4.25 | 12.8 | 32.8 | 99.3 | 106 | 662 |
| 19/2.75 | 13.8 | 37.1 | 112.9 | 136 | 755 |
| 19/3.00 | 15.0 | 44.1 | 134.3 | 162 | 899 |
| 19/3.25 | 16.3 | 51.8 | 157.6 | 189 | 1060 |
| 19/3.75 | 18.8 | 68.9 | 209.8 | 240 | 1410 |
| 19/4.25 | 21.3 | 88.6 | 269.5 | 289 | 1800 |

HDC – HARD DRAWN COPPER CONDUCTOR

Aust. Standard – AS1746 1975

| STRANDS/WIRE DIAMETER /mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIV. ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MIN. BREAKING LOAD kN | APPROXIMATE MASS PER Km kg |
|------------------------------|---------------------------------|---|-----------------------------------|-------------------------------------|-------------------------------|
| 7/1.00 | 3.00 | 8.68 | 5.498 | 2.31 | 49.3 |
| 7/1.25 | 3.75 | 13.6 | 8.589 | 3.61 | 76.9 |
| 7/1.75 | 5.25 | 26.6 | 16.84 | 6.89 | 151 |
| 7/2.00 | 6.00 | 34.7 | 21.99 | 9.02 | 197 |
| 7/2.75 | 8.25 | 65.3 | 41.58 | 16.7 | 375 |
| 7/3.50 | 10.5 | 106 | 67.35 | 26.6 | 607 |
| 19/1.75 | 8.75 | 71.7 | 45.70 | 18.3 | 413 |
| 19/2.00 | 10.0 | 93.7 | 59.69 | 23.9 | 538 |
| 19/2.75 | 13.8 | 177 | 112.9 | 44.5 | 1020 |
| 19/3.00 | 15.0 | 211 | 134.3 | 52.8 | 1210 |
| 37/1.75 | 12.3 | 139 | 89.0 | 35.6 | 806 |
| 37/2.50 | 17.5 | 284 | 181.6 | 72.9 | 1640 |
| 37/2.75 | 19.3 | 344 | 219.8 | 86.6 | 1990 |
| 37.3.00 | 21.0 | 409 | 261.5 | 103 | 2370 |
| 61/2.75 | 24.8 | 566 | 362.3 | 143 | 3280 |

USEFUL REFERENCE TABLES

AUSTRALIAN STANDARD METRIC CONDUCTORS

ACSR/GZ – ALUMINIUM CONDUCTOR (GALVANISED) STEEL REINFORCED.

Aust. Standard – AS1220 PART 1

| CODE NAME | STRANDS/ WIRE DIAMETER mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIVALENT ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MINIMUM BREAKING LOAD kN | APPROXIMATE MASS PER KM kg |
|----------------------------|------------------------------------|---------------------------------------|---|-----------------------------------|--|-------------------------------------|
| Almond | 6/1/2.50 | 7.50 | 29.0 | 34.36 | 10.5 | 119 |
| Apple | 6/1/3.00 | 9.00 | 41.8 | 49.48 | 14.9 | 171 |
| Banana | 6/1/3.75 | 11.3 | 65.2 | 77.31 | 22.8 | 268 |
| Cherry | 6/4.75 + 7/1.60 | 14.3 | 105 | 120.4 | 33.2 | 404 |
| Grape | 30/7/2.50 | 17.5 | 144 | 181.6 | 63.7 | 675 |
| Lemon | 30/7/3.00 | 21.0 | 207 | 261.5 | 90.1 | 973 |
| Lime | 30/7/3.50 | 24.5 | 282 | 356.0 | 121 | 1320 |
| Mango | 54/7/3.00 | 27.0 | 373 | 431.2 | 118 | 1440 |
| Orange | 54/7/3.25 | 29.3 | 438 | 506.0 | 137 | 1690 |
| Olive | 54/7/3.50 | 31.5 | 508 | 586.9 | 159 | 1960 |
| Paw Paw | 54/3.75 + 19/2.25 | 33.8 | 583 | 671.7 | 179 | 2250 |
| Peach | 54/4.75 + 19/2.85 | 42.8 | 936 | 1078 | 284 | 3600 |
| EXTRA HIGH STRENGTH | | | | | | |
| Quince | 3/4/1.75 | 5.25 | 8.77 | 16.84 | 12.7 | 95.9 |
| Raisin | 3/4/2.50 | 7.50 | 17.9 | 34.36 | 24.4 | 193 |
| Sultana | 4/3/3.00 | 9.00 | 31.6 | 49.48 | 28.3 | 242 |
| Walnut | 4/3/3.75 | 11.3 | 49.4 | 77.31 | 43.9 | 379 |

ACSR/AZ – ALUMINIUM CONDUCTOR (ALUMINISED) STEEL REINFORCED.

Aust. Standard – AS1220 PART 2

| CODE NAME | STRANDS/ WIRE DIAMETER mm | OVERALL DIAMETER (APPROX) mm | CALCULATED EQUIVALENT ALUMINIUM AREA mm ² | SECTIONAL AREA mm ² | CALCULATED MINIMUM BREAKING LOAD kN | APPROXIMATE MASS PER KM kg |
|-----------|------------------------------------|---------------------------------------|---|-----------------------------------|--|-------------------------------------|
| Barley | 6/1/2.50 | 7.50 | 29.0 | 34.36 | 10.3 | 119 |
| Bean | 6/1/3.00 | 9.00 | 41.8 | 49.48 | 14.5 | 171 |
| Cabbage | 6/1/3/75 | 11.3 | 65.2 | 77.31 | 21.5 | 268 |
| Carrot | 6/4.75 + 7/1.60 | 14.3 | 105 | 120.4 | 31.9 | 404 |
| Corn | 30/7/2.50 | 17.5 | 144 | 181.6 | 61.6 | 675 |
| Garlic | 30/7/3.00 | 21.0 | 207 | 261.5 | 87.2 | 973 |
| Millet | 30/7/3.50 | 24.5 | 282 | 356.0 | 116 | 1320 |
| Oats | 54/7/3.00 | 27.0 | 373 | 431.2 | 115 | 1140 |
| Onion | 54/7/3.25 | 29.3 | 438 | 506.0 | 132 | 1690 |
| Parsnip | 54/7/3.50 | 31.5 | 508 | 586.9 | 153 | 1960 |
| Potato | 54/3.75 + 19/2.25 | 33.8 | 583 | 671.7 | 177 | 2250 |
| Rice | 54/4.75 + 19/2.85 | 42.8 | 936 | 1078 | 277 | 3600 |

USEFUL REFERENCE TABLES

A.C.S.R. CONDUCTOR SIZES

| METRIC | | | | IMPERIAL | | |
|-----------|-------------------|----------------|--------|-----------|-----------------|----------------|
| CODE NAME | STRANDING | CONDUCTOR O.D. | | CODE NAME | STRANDING | O.D. inches |
| | | mm | inches | | | |
| Almond | 6/2.50 + 1/2.50 | 7.50 | .295 | Gopher | 6/1/093 | .279 |
| Apple | 6/3.00 + 1/3.00 | 9.00 | .354 | Ferret | 6/1/118 | .354 |
| Banana | 6/3.75 + 1/3.75 | 11.3 | .445 | Mink | 6/1/144 | .432 |
| Cherry | 6/4.75 + 7/1.60 | 14.3 | .563 | Dog | 6/186 + 7/062 | .558 |
| Grape | 30/2.50 + 7/2.50 | 17.5 | .689 | Wolf | 30/7/102 | .714 |
| Lemon | 30/3.00 + 7/3.00 | 21.0 | .827 | Panther | 30/7/118 | .826 |
| Lime | 30/3.50 + 7/3.50 | 24.5 | .965 | Bear | 30/7/132 | .924 |
| Mango | 54/3.00 + 7/3.00 | 27.0 | 1.063 | Bison | 54/7/118 | 1.062 |
| Orange | 54/3.25 + 7/3.25 | 29.3 | 1.154 | Brolga | 54/7/129 | 1.162 |
| Olive | 54/3.50 + 7/3.50 | 31.5 | 1.240 | Moose | 54/7/139 | 1.251 |
| Paw Paw | 54/3.75 + 19/2.25 | 33.8 | 1.331 | Finch | 54/143 + 19/086 | 1.293 |

STRANDED HARD DRAWN COPPER CONDUCTOR SIZES

| METRIC | | | IMPERIAL | | |
|-----------|----------------|--------|-----------|----------------|--------|
| CODE NAME | CONDUCTOR O.D. | | CODE NAME | CONDUCTOR O.D. | |
| | mm | inches | | mm | inches |
| 7/1.00 | 3.00 | .118 | 7/036 | 2.7 | .108 |
| 7/1.25 | 3.75 | .148 | 7/048 | 3.7 | .144 |
| 7/1.75 | 5.25 | .207 | 7/064 | 4.9 | .192 |
| 7/2.0 | 6.00 | .236 | 7/080 | 6.1 | .240 |
| 7/2.75 | 8.25 | .325 | 19/064 | 8.1 | .320 |
| 19/1.75 | 8.75 | .345 | 7/118 | 9.0 | .354 |
| 19/2.0 | 10.0 | .394 | 7/136 | 10.3 | .408 |
| 7/3.50 | 10.5 | .413 | 19/083 | 10.5 | .415 |
| 37/1.75 | 12.25 | .484 | 37/072 | 12.8 | .504 |
| 19/2.75 | 13.75 | .541 | – | – | – |
| 19/3.00 | 15.0 | .591 | 19/116 | 14.7 | .580 |
| 37/2.50 | 17.5 | .689 | 37/093 | 16.5 | .651 |
| 37/2.75 | 19.25 | .758 | 37/103 | 18.3 | .721 |
| 37/3.00 | 21.0 | .827 | 37/118 | 21.0 | .826 |
| 61/2.75 | 24.75 | .974 | 91/093 | 26.0 | 1.023 |

USEFUL REFERENCE TABLES

CABLE CROSS SECTIONS

ANNEALED ALUMINIUM AND COPPER STRANDED CONDUCTORS

| METRIC | | | IMPERIAL | | | | |
|--|---|---------------------------------------|--|---|----------|--|---------------------------------------|
| NOMINAL CROSS SECTIONAL AREA mm ² | NUMBER AND NOMINAL DIA. OF WIRES mm | NOMINAL DIA. OF CONDUCTOR mm | NOMINAL CROSS SECTIONAL AREA mm ² | NUMBER AND NOMINAL DIA. DIA. OF WIRES | | NOMINAL CROSS SECTIONAL AREA inches ² | NOMINAL DIA. OF CONDUCTOR mm |
| | | | | inches | mm | | |
| 1 | 1/1.13 | 1.13 | .97 | 1/.044 | 1/1.12 | .0015 | 1.12 |
| — | — | — | 1.25 | 3/.029 | 3/737 | .0019 | 1.59 |
| 1.5 | 1/1.38 | 1.38 | — | — | — | — | — |
| — | — | — | 1.93 | 3/.036 | 3/914 | .003 | 1.97 |
| 2.5 | 7/0.67 | 2.01 | — | — | — | — | — |
| — | — | — | 2.93 | 7/.029 | 7/737 | .0045 | 2.21 |
| 4 | 7/0.85 | 2.55 | — | — | — | — | — |
| — | — | — | 4.52 | 7/.036 | 7/914 | .007 | 2.74 |
| 6 | 7/1.04 | 3.12 | — | — | — | — | — |
| — | — | — | 6.75 | 7/.044 | 7/1.12 | .010 | 3.35 |
| — | — | — | 9.43 | 7/.052 | 7/1.32 | .0146 | 3.96 |
| 10 | 7/1.35 | 4.05 | — | — | — | — | — |
| — | — | — | 14.28 | 7/.064 | 7/1.63 | .0025 | 4.88 |
| 16 | 7/1.70 | 5.10 | — | — | — | — | — |
| — | — | — | 18.29 | 19/.044 | 19/1.12 | .03 | 5.59 |
| 25 | 7/2.14 | 6.75 | 25.5 | 19/.052 | 19/1.32 | .04 | 6.60 |
| 35 | 19/1.53 | 7.65 | — | — | — | — | — |
| — | — | — | 38.7 | 19/.064 | 19/1.63 | .06 | 8.13 |
| 50 | 19/1.78 | 8.90 | — | — | — | — | — |
| — | — | — | 65.1 | 19/.083 | 19/2.11 | .10 | 10.5 |
| 70 | 19/2.14 | 10.70 | — | — | — | — | — |
| — | — | — | 75.3 | 37/.064 | 37/1.63 | .12 | 11.4 |
| 95 | 19/2.52 | 12.60 | 95.3 | 37/.072 | 37/1.83 | .15 | 12.8 |
| 120 | 37/2.03 | 14.21 | 126.7 | 37/.083 | 37/2.11 | .20 | 14.8 |
| 150 | 37/2.25 | 15.75 | — | — | — | — | — |
| — | — | — | 159.1 | 37/.093 | 37/2.36 | .25 | 16.5 |
| 185 | 37/2.52 | 17.64 | — | — | — | — | — |
| — | — | — | 195.1 | 37/.103 | 37/2.62 | .30 | 18.3 |
| 240 | 61/2.25 | 20.25 | — | — | — | — | — |
| — | — | — | 262.2 | 61/.093 | 61/2.36 | .40 | 21.3 |
| 300 | 61/2.52 | 22.68 | — | — | — | — | — |
| — | — | — | 321.6 | 61/.103 | 61/2.62 | .50 | 23.5 |
| — | — | — | 391.1 | 91/.093 | 91/2.36 | .60 | 26.0 |
| 400 | 61/2.85 | 25.65 | — | — | — | — | — |
| — | — | — | 479.7 | 91/.103 | 91/2.62 | .75 | 28.8 |
| 500 | 61/3.20 | 28.80 | — | — | — | — | — |
| 630 | 127/2.52 | 32.76 | — | — | — | — | — |
| — | — | — | 669.4 | 127/.103 | 127/2.62 | 1.00 | 34.0 |
| 800 | 127/2.85 | 37.05 | 800.00 | 127/.112 | 127/2.84 | 1.24 | 36.92 |
| 1000 | 127/3.20 | 41.60 | 1000.0 | 127/.125 | 127/3.18 | 1.50 | 41.34 |

USEFUL REFERENCE TABLES

OVERHEAD CONDUCTORS

| AAC | | | | AAAC (1120) | | | | AAAC (6201A) | | | | ACSR | | | |
|---------|-----------|---------|----------------------|-------------|-----------|---------|----------------------|--------------|-----------|---------|----------------------|----------|--------------------|---------|----------------------|
| CODE | STRAND AL | O.D. mm | AREA mm ² | CODE | STRAND AL | O.D. mm | AREA mm ² | CODE | STRAND AL | O.D. mm | AREA mm ² | CODE | STRAND AL | O.D. mm | AREA mm ² |
| Gemini | 7/1.75 | 5.25 | 16.8 | Argon | 7/1.75 | 5.25 | 16.8 | Agate | 7/1.75 | 5.25 | 16.8 | Quince* | 3/4/1.75 | 5.25 | 16.8 |
| Jupiter | 7/2.25 | 6.75 | 27.8 | Boron | 7/2.25 | 6.75 | 27.8 | Amethyst | 7/2.25 | 6.75 | 27.8 | | | | |
| Leo | 7/2.50 | 7.50 | 34.4 | Chlorine | 7/2.50 | 7.50 | 34.4 | Diamond | 7/2.50 | 7.50 | 34.4 | Almond | 6/1/2.50 | 7.50 | 34.4 |
| | | | | | | | | | | | | Raisin* | 3/4/2.50 | 7.50 | 34.4 |
| Leonids | 7/2.75 | 8.25 | 41.6 | Chromium | 7/2.75 | 8.25 | 41.6 | Dolomite | 7/2.75 | 8.25 | 41.6 | | | | |
| Libra | 7/3.00 | 9.00 | 49.5 | Fluorine | 7/3.00 | 9.00 | 49.5 | Emerald | 7/3.00 | 9.00 | 49.5 | Apple | 6/1/3.00 | 9.00 | 49.5 |
| | | | | | | | | | | | | Sultana* | 4/3/3.00 | 9.00 | 49.5 |
| Mars | 7/3.75 | 11.25 | 77.3 | Helium | 7/3.75 | 11.25 | 77.3 | Garnet | 7/3.75 | 11.25 | 77.3 | Banana | 6/1/3.75 | 11.25 | 77.3 |
| | | | | | | | | | | | | Walnut* | 4/3/3.75 | 11.25 | 77.3 |
| Mercury | 7/4.50 | 13.50 | 111.3 | Hydrogen | 7/4.50 | 13.50 | 111.3 | Jade | 7/4.50 | 13.50 | 111.3 | | | | |
| Moon | 7/4.75 | 14.25 | 124.0 | Iodine | 7/4.75 | 14.25 | 124.0 | Jasper | 7/4.75 | 14.25 | 124.0 | Cherry | 6/4.75 7/1.60 | 14.30 | 120.4 |
| | | | | | | | | | | | | | | | |
| Neptune | 19/3.25 | 16.25 | 157.6 | Krypton | 19/3.25 | 16.25 | 157.6 | Opal | 19/3.25 | 16.25 | 157.6 | | | | |
| Orion | 19/3.50 | 17.50 | 182.8 | Lutetium | 19/3.50 | 17.50 | 182.50 | Patronite | 19/3.50 | 17.50 | 182.50 | Grape | 30/7/2.50 | 17.50 | 181.6 |
| Pluto | 19/3.75 | 18.75 | 209.8 | Neon | 19/3.75 | 18.75 | 209.8 | Pearl | 19/3.75 | 18.75 | 209.8 | | | | |
| Saturn | 37/3.00 | 21.00 | 261.5 | Nitrogen | 37/3.00 | 21.00 | 261.5 | Ruby | 37/3.00 | 21.00 | 261.5 | Lemon | 30/7/3.00 | 21.00 | 261.5 |
| Sirius | 37/3.25 | 22.75 | 306.9 | Nobelium | 37/3.25 | 22.75 | 306.9 | Ruthenium | 37/3.25 | 22.75 | 306.9 | | | | |
| Taurus | 19/4.75 | 23.75 | 336.7 | Oxygen | 19/4.75 | 23.75 | 336.7 | Rutile | 19/4.75 | 23.75 | 336.7 | | | | |
| | | | | | | | | | | | | | | | |
| Triton | 37/3.75 | 26.25 | 408.6 | Phosphorus | 37/3.75 | 26.25 | 408.6 | Sapphire | 37/3.75 | 26.25 | 408.6 | Lime | 30/7/3.50 | 24.50 | 356.0 |
| | | | | | | | | | | | | | | | |
| Uranus | 61/3.25 | 29.25 | 506.4 | Selenium | 61/3.25 | 29.25 | 506.4 | Spinel | 61/3.25 | 29.5 | 506.4 | Mango | 54/7/3.00 | 27.00 | 431.2 |
| Ursula | 61/3.50 | 31.50 | 586.9 | Silicon | 61/3.50 | 31.50 | 586.9 | Tantalum | 61/3.50 | 31.50 | 586.9 | Orange | 54/7/3.25 | 29.25 | 506.4 |
| Venus | 61/3.75 | 33.75 | 673.7 | Sulphur | 61/3.75 | 33.75 | 673.7 | Topaz | 61/3.75 | 33.75 | 673.7 | Olive | 54/7/3.50 | 31.50 | 586.9 |
| | | | | | | | | | | | | Paw Paw | 54/3.75 19/2.25 | 33.75 | 672.0 |
| | | | | | | | | | | | | Peach | 54/4.75 19/2.85 | 42.75 | 1078.0 |
| Virgo | 91/4.50 | 49.50 | 1447.0 | Xenon | 91/4.50 | 49.50 | 1447.0 | Zircon | 91/4.50 | 49.50 | 1447.0 | | | | |



USEFUL REFERENCE TABLES

TOOL AND DIE SELECTION

STANDARD COPPER LUGS, LINKS, STALKS ETC.

| CONDUCTOR SIZE mm ² | DIE A/F mm | HAND CRIMPERS | HYDRAULIC TOOLS – HEXAGONAL DIES | | | |
|--------------------------------------|------------------|------------------|----------------------------------|------------------------------------|-----------------------------------|---|
| | | | 5 TONNE #111 | 12 TONNE #38A #98 #41AH #98H | 22 TONNE #66H | 60 TONNE #40B |
| 1.5 | – | | | | USE STANDARD COPPER DIES | USE ADAPTOR 40-DH AND STANDARD 12 TONNE DIES |
| 2.5 | – | | | | | |
| 4 | – | | | | | |
| 6 | 4.4 | | | 38-44CU | | |
| 10 | 5.7 | | 111-5763CU | 38-57CU | | |
| 16 | 6.3 | | 111-5763CU | 38-63CU | | |
| 25 | 7.7 | | 111-7792CU | 38-77CU | | |
| 35 | 9.2 | | 111-7792CU | 38-92CU | | |
| 50 | 10.4 | | 111-104115CU | 38-104CU | | |
| 70 | 11.5 | | 111-104115CU | 38-115CU | | |
| 95 | 14.2 | | 111-142165CU | 38-142CU | | |
| 120 | 16.5 | | 111-142165CU | 38-160CU | | |
| 150 | 18.3 | | | 38-183CU | | |
| 185 | 20.0 | | | 38-200CU | | |
| 240 | 23.1 | | | 38-231CU | | |
| 300 | 26.0 | | | 38-260CU | | |
| 400 | 28.1 | | | | 66-281CU | 40-281CU |
| 500 | 31.0 | | | | 66-310CU | 40-310CU |
| 630 | 37.0 | | | | | 40-370CU |
| 800 | 43.2 | | | | | 40-432CU |
| 1000 | 48.0 | | | | | 40-489CU |

STANDARD ALUMINIUM AND BI-METAL

| CONDUCTOR SIZE mm ² | DIE A/F mm | HYDRAULIC TOOLS – HEXAGONAL DIES | | |
|--------------------------------------|------------------|-------------------------------------|---|--|
| | | 12 TONNE #38A #98A #41AH #98H | 60 TONNE #40B | |
| 1.5 | – | | USE ADAPTOR 40DH AND STANDARD 12 TONNE DIES | |
| 2.5 | – | | | |
| 4 | – | | | |
| 6 | 9.0 | 38-90AL | | |
| 10 | 9.0 | 38-90AL | | |
| 16 | 9.0 | 38-90AL | | |
| 25 | 9.0 | 38-90AL | | |
| 35 | 9.0 | 38-90AL | | |
| 50 | 13.2 | 38-132AL | | |
| 70 | 13.2 | 38-132AL | | |
| 95 | 17.3 | 38-173AL | | |
| 120 | 17.3 | 38-173AL | | |
| 150 | 22.0 | 38-220AL | | |
| 185 | 22.0 | 38-220AL | | |
| 240 | 28.4 | 38-284AL | | |
| 300 | 28.4 | 38-284AL | | |
| 400 | 39.0 | | 40-390AL | |
| 500 | 39.0 | | 40-390AL | |
| 630 | 43.2 | | 40-432AL | |
| 800 | 43.2 | | 40-525AL | |

USEFUL REFERENCE TABLES

NOMINAL CABLE DIMENSIONS

| CROSS SECTION AREA mm ² | STRAND NO./WIRE DIA. | O.D. OF CONDUCT | O.D. OF P.V.C. SINGLE CORE CABLE | O.D. OF P.V.C. INS. SINGLE CORE SHEATHED | O.D. OF SINGLE CORE XLPE/PVC | TWO CORE | TWO CORE + EARTH | THREE CORE + EARTH | FOUR CORE + EARTH |
|---|----------------------------|-----------------------|--|--|---------------------------------------|-------------|------------------------|--------------------------|-------------------------|
| 1 | 1/1.13 7/0.40 | 1.13 1.20 | 2.8 | 4.1 | | | | | |
| 1.5 | 1/1.38 7/0.50 | 1.38 1.5 | 3.2 | 4.4 | | 9.4 | | | |
| 2.5 | 7/0.67 | 2.01 | 3.7 | 5.1 | | 10.8 | | | |
| 4 | 7/0.85 | 2.55 | 4.6 | 6.0 | | 12.2 | | | |
| 6 | 7/1.04 | 3.12 | 5.2 | 6.6 | | 13.4 | | | |
| 10 | 7/1.35 | 4.05 | 6.1 | 8.1 | | | 16.6 | 18.1 | 20.0 |
| 16 | 7/1.70 | 5.10 | 7.2 | 9.3 | | | 18.6 | 20.4 | 22.6 |
| 25 | 19/1.35 | 6.75 | 8.9 | | 11.4 | | 22.1 | 23.8 | 26.5 |
| 35 | 19/1.53 | 7.65 | 10.1 | | 12.6 | | 24.4 | 26.5 | 29.5 |
| 50 | 19/1.78 | 8.9 | 11.9 | | 14.1 | | 28.0 | 30.6 | 34.3 |
| 70 | 19/2.14 | 10.70 | 13.5 | | 16.0 | | 31.5 | 34.8 | 39.0 |
| 95 | 37/1.78 | 12.46 | 15.9 | | 18.2 | | | 39.6 | 44.6 |
| 120 | 37/2.03 | 14.21 | 17.4 | | 20.0 | | | 43.3 | 48.8 |
| 150 | 37/2.25 | 15.75 | 19.5 | | 22.2 | | | 48.4 | 54.6 |
| 185 | 37/2.52 | 17.64 | | | 24.4 | | | 53.7 | 60.7 |
| 240 | 61/2.25 | 20.25 | | | 27.4 | | | 61.0 | 69.1 |
| 300 | 61/2.52 | 22.68 | | | 30.3 | | | 67.6 | 76.6 |
| 400 | 61/2.85 | 25.65 | | | 33.8 | | | | |
| 500 | 61/3.20 | 28.80 | | | 35.7 | | | | |
| 630 | 127/2.52 | 32.76 | | | 40.2 | | | | |

NOMINAL DATA AS SPECIFIED IN AS/NZS 5000 -1 & 2

COMPRESSION TERMINATION THEORY

Utilux crimp lugs, links and stalk lugs are designed to be compatible with Utilux indent tools and hydraulic tools with hexagonal or indent dies. Through this exact matching the resultant terminations achieve a consistently precise compression – neither over stressed nor understressed – to produce the correct indent or hexagonal force.

The crimp is designed to bring all conductors and the connector itself into intimate contact. At the same time, the crimp is designed to avoid any reduction in the cross sectional area of the conductor, with an increased contact area.

BASIC COMPRESSION TERMINATION PRACTICES

1. Strip the cable insulation to the recommended length. Recommended stripping lengths of conductors should correspond to the barrel lengths shown in this catalogue.
2. With non plated copper conductors, scratch brushing may be carried out on the bare copper conductor. On aluminium conductors however, scratch brushing must be carried out. Terminating should be completed as soon as possible after stripping of the insulation.
3. To ensure a reliable termination, the correct connector for a given cable size must be selected. Moreover, the recommended indent tool or hexagon tool and die must also be used. See the various data tables in this catalogue for tooling recommendations.
4. Fit the connector over the stripped conductor and place the connector into the hand or hydraulic tool. Apply the recommended pressure. With hand tools, the crimp is not complete until the jaws meet or the ratchet releases. With hex dies in hydraulic tools, the faces of the die must meet.
5. The number of crimps per connector can vary. Some lugs have markings for crimps, if you require more information please contact Utilux.

TERMINATION RECOMMENDATIONS

The palm contact areas of Utilux lugs are designed to give more than that the surface of lugs are used upon has corresponding contact area. Excessive drilling out of palm holes must be avoided, to ensure that adequate palm contact, heavy gauge washers are recommended. in relation to stalk lugs and consistent with the above, care must be taken to adequately match the stalk diameter of the tunnel or mounting connector, to ensure maximum surface contact area. Bolting torques are listed in the following table.

| Bolt Size | Material | Tightening Torque |
|------------------|-----------------|--------------------------|
| 3/8" | Aluminium | 20 Newton Metres |
| 1/2" | Aluminium | 40 Newton Metres |
| M10 | Aluminium | 20 Newton Metres |
| M6 | Steel | 16 Newton Metres |
| M8 | Steel | 16 Newton Metres |
| M10 | Steel | 20 Newton Metres |
| M12 | Steel | 40 Newton Metres |
| M16 | Steel | 80 Newton Metres |
| M20 | Steel | 100 Newton Metres |

FLEXIBLE CABLE CRIMPING

The crimping of connectors onto flexible conductors is problematic due to the large amount of air gaps between conductor strands. This results in a large physical size for a relatively small conductor cross section. Thus the standard size lug for a given area of flexible conductor is usually too small. If a larger size lug is used instead, the standard die for that size lug will not achieve the desired compression.

Indent crimping is not recommended, as the indent may damage the very fine strands of a flexible conductor which may in turn cause connector failure.

Adopting the Utilux "Half Hex" crimping method solves the problem.

This method employs a crimping shape in the form of one half of the standard hexagon shape. The dies used comprise a normal hexagon crimp die, along with a special flat die to give the half hexagon shape. The hexagon die is sufficiently large to close around the lug completely, giving adequate compression.

Normally the conductor's area will be known or can be located on the chart below. However if not known, it has to be established. To do this we require the amount of strands and individual strand diameter. Counting the amount of strands is not as daunting a task as it appears. The lay of the conductor will generally be a series of bundled strands, with each bundle having the same lay as a regular laid conductor, eg 7, 19, 37 strands etc. Having established the amount of strands to a bundle, count the amount of bundles and multiply. For example for a 95mm² the conductor may be 259/0.7 with a nominal diameter of 13.8mm, from this the true area is 99.7mm². The diameter is too large for a 95mm² barrel but will fit a 120mm² barrel. It can then be crimped using the half hex method.

Rule of thumb for matching conductor to lug, providing conductor diameter allows, is whatever the area of the conductor, choose the next size larger lug.

| CSA mm ² | NO & DIA OF WIRES | OD OF CONDUCTOR | CALCULATED CSA mm ² |
|---------------------|-------------------|-----------------|--------------------------------|
| 16 | 128/0.4 | | |
| | 540/0.2 | 5.8 | 15.8 |
| 25 | 209/0.4 | | |
| | 770/0.2 | 7.5 | 24.2 |
| 35 | 285/0.4 | | |
| | 1083/0.2 | 8.6 | 34.0 |
| 50 | 380/0.4 | | |
| | 1558/0.2 | 10.5 | 49.0 |
| 70 | 203/0.67 | | |
| | 2204/0.2 | 11.6 | 69.3 |
| 95 | 259/0.67 | | |
| | 2983/0.2 | 14.8 | 93.7 |
| 120 | 336/0.67 | | |
| | 3810/0.2 | 15.9 | 119.7 |
| 150 | 427/0.67 | | |
| | 4773/0.2 | 18.6 | 150.0 |
| 185 | 528/0.67 | | |
| | 5881/0.2 | | 184.8 |
| | 5920/0.21 | 18.8 | 205.1 |
| 240 | 672/0.67 | | |
| | 7400/0.21 | 23.7 | 256.3 |
| | 73630/0.2 | | 239.7 |
| 300 | 8911/0.2 | | 280.0 |
| | 9102/0.21 | 26.6 | 315.3 |
| 400 | 11970/0.2 | | 376.1 |
| | 12672/0.21 | 30.8 | 438.9 |



| UTILUX CRIMP LUG PART NUMBER | | FLEXIBLE CONDUCTOR SIZE (mm²) | | | UTILUX HALF HEX SET PART NUMBER | UTILUX HALF HEX DIE SET CONSISTS OF | RECOMMENDED UTILUX TOOLING |
|--|--------------------------------------|----------------------------------|-------|-------|------------------------------------|--|---|
| | | NOMINAL | RANGE | | | | |
| | | | MIN | MAX | | | |
| H1415A H1415 H1416 H1416A H1416B | M6 M8 M10 M11 M12 | 16 | 15 | 19.3 | 38-98HHEX17/1 | Half 38-98CU plus 38-FLAT17 | #38A #38ROBO #41A #42A #66H #98 #98H #98ROBO |
| H1365 H1366 H1368 H1369 | M6 M8 M10 M12 | 25 | 23.5 | 30.5 | 38-122HHEX17/1 | Half 38-122CU plus 38-FLAT17 | |
| H1419 H1420 H1421 | M6 M8 M10 | 35 | 27.5 | 35 | 38-130HHEX17/1 | Half 38-130CU plus 38-FLAT17 | |
| H1422B H1422A H1422 H1423 H1423A | M6 M8 M10 M12 M16 | 50 | 47.5 | 58 | 38-153HHEX17/1 | Half 38-153CU plus 38-FLAT17 | |
| H1424B H1424C H1424 H1425 H1440 H1438 | M6 M8 M10 M12 M16 M20 | 70 | 66.5 | 82 | 38-183HHEX14/1 | Half 38-183CU plus 38-FLAT14 | |
| H1381 H1382 H1383 H1382B | M10 M12 M16 M20 | 95 | 89.5 | 112.5 | 38-220HHEX14/1 | Half 38-220CU plus 38-FLAT14 | |
| H1384A H1384 H1385 H1386 | M10 M12 M16 M20 | 120 | 113.5 | 141.5 | 38-245HHEX14/1 | Half 38-245CU plus 38-FLAT14 | #40B #40BH |
| H1387A H1387 H1388 H1389 | M10 M12 M16 M20 | 150 | 131 | 162.5 | 40-260HHEX25/1 | Half 40-260CU plus 40-FLAT25 | |
| H1390 H1390D H1390A H1390B H1390C | MB M10 M12 M16 M20 | 185 | 174.5 | 219.5 | 40-310HHEX25/1 | Half 40-310CU plus 40-FLAT25 | |
| H1391 H1391A H1391B | MB M16 M20 | 240 | 226.5 | 283.5 | 40-340HHEX25/1 | Half 40-340CU plus 40-FLAT25 | |
| H1448 H1448A H1448B | MB M16 M20 | 300 | 266 | 330.5 | 40-370HHEX25/1 | Half 40-370CU plus 40-FLAT25 | |
| H1449 H1449A H1449B | MB M16 M20 | 400 | 381.5 | 460 | 40-410HHEX25/1 | Half 40-410CU plus 40-FLAT25 | |

Notes:

- 1.Refer to pages 2 & 3 for copper lug descriptive part numbers
2. To calculate cross sectional area of cable, use following formula;

$$CSA = \frac{N \times d^2 \times \pi}{4}$$

3. Cable chart is for single core double insulated flexible cables 0.6/1kV V90.

METRIC DESCRIPTION

For simplicity in identifying connectors in this catalogue, we have designated certain products with metric coding.

This coding can be used to identify a product if the Utilux catalogue number is unknown.

The following coding applies:

A = Aluminium K = Link

B = Bi-Metal S = Sector

C = Copper M = Palm Hole in mm

G = Lug MB = Blank Palm

AGS = Aluminium Lug Sector

AKS = Aluminium Link Sector

BGS = Bi-Metal Lug Sector

BKS = Bi-Metal Link Sector

AG = Aluminium Lug AK = Aluminium Link

BG = Bi-Metal Lug BK = Bi-Metal Link

BS = Bi-Metal Stalk CG = Copper Lug

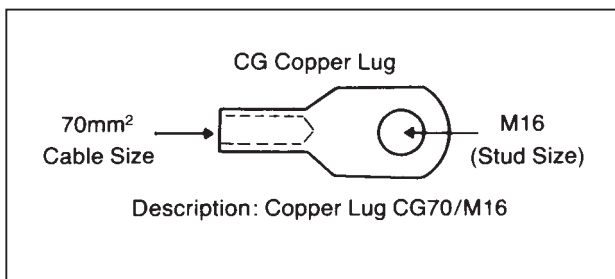
CK = Copper Link

The cable area in sqmm and the palm hole is included to complete the description, eg:

(a) BKS70/50 is a Bi-Metal Link Sector, 70mm² solid aluminium to 50mm² stranded copper.

(b) AGS300/M16 is an Aluminium Lug Sector Cable 300mm² solid 16mm palm hole.

(c) AKS240 is an Aluminium Link Sector Cable 240mm² solid.



Note: This guide covers a wide, but not exhaustive, range of our products. If you have a special requirement it may be available in our extensive non standard range or, through our Utilux Express service. Please discuss with your Utilux distributor.

ERGONOMIC DESIGN –

THE KEY TO SAFE, COMFORTABLE WORK PRACTICE

Poorly designed hand tools can often cause strain injury to the hands or lower arm and, at best, can make repetitive tasks tiring and uncomfortable. The Utilux range of Ergonomic Design Hand Crimp Tools combines high quality and durable design and manufacture with the best of current ergonomics science for optimal operator safety and comfort. These tools, developed in co-operation with prominent ergonomists, offer maximum performance and user-friendliness. Some important features are;



The optimum grip diameter is the width of the handles measured at the centre of the hand. Tools should be designed so that the maximum force needed is required at the optimum grip diameter.



The shape of the handles offers a comfortable one-hand grip even at maximum opening.



The unique mechanical advantage means that very small forces are required to crimp the connector and cable to fix them in the correct position.



When the connector and cable are fixed, the final crimping can be done with a comfortable two-hand grip.

GOOD MECHANICAL FUNCTION

The lower the hand force required to operate a tool, the lower is the risk of overloading and injury. Utilux Ergonomic Design Tools are equipped with a unique mechanism which reduces the need for muscle force by 45%.

OPTIMUM GRIP DIAMETER

The position at which the hand can transfer most force with minimal stress varies from individual to individual and is also significantly different between men and women. Utilux Ergonomic Design Tools feature handle designs that provide a comfortable optimum grip zone for any operator.

TWO HAND GRIP FEATURE

Our Ergonomic Design Tools feature handles which allow two-hand operation in the final, high force, crimping phase. This dramatically increases crimping force while reducing the possibility of strain or injury.

WEIGHT AND BALANCE

Low weight and good balance are an integral comfort and safety feature of Utilux Ergonomic Design Tools. Handles are precisely shaped to distribute the loading across the palm and four fingers rather than concentrating it on only a few fingers. This distributes surface pressure over the largest possible area of the hand.

HANDLE MATERIAL

Material used for handle grips is carefully selected to exhibit the correct co-efficient of friction when in contact with the skin. This reduces slippage and increases control.

THE HAND – A PRECISION TOOL

The human hand is a powerful, precision tool in its own right. It is our most important means of contact with the environment. But, like any precision instrument, it is sensitive to abuse. The use of quality ergonomically correct tools will help protect this most important part of the human body.

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