

## BELL MOUTH LUGS

| Part Number | Conductor size<br>(mm <sup>2</sup> ) | Stranding metric | Stud<br>(mm) | ID size<br>(mm) | Palm width<br>(mm) | Barrel length<br>(mm) | Full length<br>(mm) | A/F hex<br>(mm) | Pack qty |
|-------------|--------------------------------------|------------------|--------------|-----------------|--------------------|-----------------------|---------------------|-----------------|----------|
| CL10-6BM    | 10                                   | 80 x 0.41        | M6           | 4.7             | 12                 | 10                    | 27                  | 5.7             | 25       |
| CL10-8BM    |                                      |                  | M8           |                 | 14                 |                       | 29                  |                 |          |
| CL10-10BM   |                                      |                  | M10          |                 | 15                 |                       | 32                  |                 |          |
| CL10-12BM   |                                      |                  | M12          |                 | 18                 | 11                    | 38                  |                 |          |
| CL16-6BM    | 16                                   | 128 x 0.41       | M6           | 5.5             | 11                 | 19                    | 39                  | 6.3             | 25       |
| CL16-8BM    |                                      |                  | M8           |                 | 14                 |                       | 41                  |                 |          |
| CL16-10BM   |                                      |                  | M10          |                 | 16                 |                       | 46                  |                 |          |
| CL16-12BM   |                                      |                  | M12          |                 | 18                 |                       | 46                  |                 |          |
| CL25-6BM    | 25                                   | 200 x 0.41       | M6           | 7.1             | 13.5               | 21                    | 41                  | 7.7             | 25       |
| CL25-8BM    |                                      |                  | M8           |                 | 16                 |                       | 44                  |                 |          |
| CL25-10BM   |                                      |                  | M10          |                 | 18                 |                       | 48                  |                 |          |
| CL25-12BM   |                                      |                  | M12          |                 | 18                 |                       | 48                  |                 |          |
| CL35-6BM    | 35                                   | 280 x 0.41       | M6           | 8.4             | 16                 | 21                    | 45                  | 9.2             | 25       |
| CL35-8BM    |                                      |                  | M8           |                 | 18                 |                       | 51                  |                 |          |
| CL35-10BM   |                                      |                  | M10          |                 | 20                 |                       | 22                  |                 |          |
| CL35-12BM   |                                      |                  | M12          |                 | 20                 | 22                    | 51                  |                 |          |
| CL50-6BM    | 50                                   | 400 x 0.41       | M6           | 9.5             | 18                 | 22                    | 46                  | 10.4            | 10       |
| CL50-8BM    |                                      |                  | M8           |                 | 21                 |                       | 54                  |                 |          |
| CL50-10BM   |                                      |                  | M10          |                 | 21                 |                       | 54                  |                 |          |
| CL50-12BM   |                                      |                  | M12          |                 | 21                 | 54                    |                     |                 |          |
| CL70-6BM    | 70                                   | 356 x 0.51       | M6           | 11.3            | 21                 | 24                    | 54                  | 11.5            | 10       |
| CL70-8BM    |                                      |                  | M8           |                 | 21                 |                       | 54                  |                 |          |
| CL70-10BM   |                                      |                  | M10          |                 | 21                 |                       | 54                  |                 |          |
| CL70-12BM   |                                      |                  | M12          |                 | 21                 |                       | 54                  |                 |          |
| CL95-8BM    | 95                                   | 485 x 0.51       | M8           | 13.5            | 25                 | 27                    | 60                  | 14.2            | 10       |
| CL95-10BM   |                                      |                  | M10          |                 | 25                 |                       | 60                  |                 |          |
| CL95-12BM   |                                      |                  | M12          |                 | 25                 |                       | 60                  |                 |          |
| CL120-10BM  |                                      |                  | M10          |                 | 25                 |                       | 60                  |                 |          |
| CL120-12BM  | 120                                  | 614 x 0.51       | M12          | 15.6            | 30                 | 30                    | 64                  | 16.5            | 1        |
| CL150-10BM  |                                      |                  | M10          |                 |                    |                       | 32                  |                 |          |
| CL150-12BM  | 150                                  | 765 x 0.51       | M12          | 16.7            | 32                 | 30                    | 75                  | 18.3            | 1        |
| CL185-10BM  |                                      |                  | M10          |                 |                    |                       | 36                  |                 |          |
| CL185-12BM  | 185                                  | 944 x 0.51       | M12          | 18.4            | 36                 | 32                    | 79                  | 20              | 1        |
| CL240-10BM  |                                      |                  | M10          |                 |                    |                       | 41                  |                 |          |
| CL240-12BM  | 240                                  | 1225 x 0.51      | M12          | 21.2            | 41                 | 38                    | 92                  | 23.1            | 1        |

## CIRCUIT BREAKER BELL MOUTH LUGS NARROW PALM

| Part Number | Conductor size (mm <sup>2</sup> ) | Stranding metric | Stud (mm) | ID size (mm) | Palm width (mm) | Barrel length (mm) | Full length (mm) | A/F hex (mm) | Pack qty |
|-------------|-----------------------------------|------------------|-----------|--------------|-----------------|--------------------|------------------|--------------|----------|
| CLB35-6NP   | 35                                | 280 x 0.41       | M6        | 8.4          | 16              | 21                 | 45               | 9.2          | 25       |
| CLB50-6NP   | 50                                | 400 x 0.41       | M6        | 9.5          | 18              | 22                 | 46               | 10.4         | 10       |
| CLB50-10NP  |                                   |                  | M10       |              |                 |                    |                  |              |          |
| CLB70-6NP   | 70                                | 356 x 0.51       | M6        | 11.3         | 21              | 24                 | 54               | 11.5         | 10       |
| CLB70-10NP  |                                   |                  | M10       |              |                 |                    |                  |              |          |
| CLB95-8NP   | 95                                | 485 x 0.51       | M8        | 13.5         | 25              | 27                 | 60               | 14.2         | 10       |
| CLB95-10NP  |                                   |                  | M10       |              |                 |                    |                  |              |          |
| CLB120-8NP  | 120                               | 614 x 0.51       | M8        | 15.6         | 30              | 30                 | 64               | 16.5         | 1        |
| CLB120-10NP |                                   |                  | M10       |              |                 |                    |                  |              |          |
| CLB150-10NP | 150                               | 765 x 0.51       | M10       | 16.7         | 32              | 30                 | 71               | 18.3         | 1        |
| CLB185-10NP | 185                               | 944 x 0.51       | M10       | 18.4         | 36              | 32                 | 74               | 20           | 1        |
| CLB240-10NP | 240                               | 1225 x 0.51      | M10       | 21.2         | 41              | 38                 | 92               | 23.1         | 1        |
| CLB240-12NP |                                   |                  | M12       |              |                 |                    |                  |              |          |
| CLB300-10NP | 300                               | 1530 x 0.51      | M10       | 23.8         | 46              | 42                 | 101              | 26           | 1        |
| CLB400-12NP | 400                               | 2035 x 0.51      | M12       | 26.8         | 50              | 44                 | 114              | 28.1         | 1        |
| CLB500-12NP | 500                               | 1768 x 0.60      | M12       | 30           | 56              | 50                 | 119              | 31           | 1        |

\*Note: Cable dimensions for fine stranded flexible cable is Class 5, please note cable sizes may vary by cable manufacturers' if in doubt contact your cable supplier.



## COPPER LUG SERIES

## Innovative product solutions need a solid basis

Noremak Industries is one of the leading suppliers of products for terminating, fastening, fixing, identifying and protecting cables and their connecting components. We also develop pioneering systems in the field of electrical and data networking technology for our customers. Our company philosophy is not only geared towards achieving unique products, but offering equally unique supply solutions, embracing the latest supply chain techniques.

## Main principals that characterise our design competence

What does it take to deliver an innovative product solution? Simply, it consists of an idea that leads to products with an added value that is completely new for you. What this highlights clearly is in fact a complex undertaking in where many factors must interact with each other. This is why Noremak use three working methods to guarantee that development, quality, production and distribution of technically demanding solutions are guaranteed at the highest level.

## Customer specific product development

The most important requirement of all for developing made-to-measure products is established through direct dialogue with our customers. It is on the basis that we develop innovative solutions which meet your high requirement profile. Our Engineers work closely together in a worldwide network. This is how they can achieve not only optimal synergies, but also a service and support quality which you will find nowhere else.

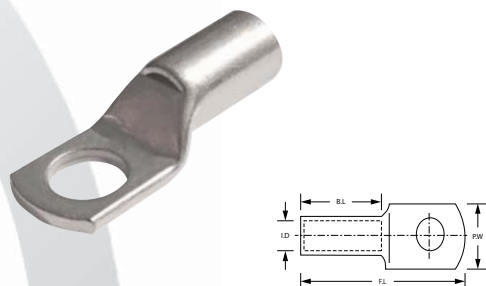
## Development of market-leading all-purpose products

Noremak not only invest continuously in research and development, but also closely scrutinize our entire product portfolio. Intensive market and competition analysis enables us to spot market and processing trends ahead of time. This is why our products always meet your high expectations and special requirements.

## Re-engineering of existing products

By re-engineering our products, we meet the constant optimisation of our wide ranging portfolio. The close co-operation with you, the dealers and end-users of our products allows us to continually adjust our existing products to up date market trends.

This constant development and modernisation of our products and processes makes us reliable partners. Noremak welcomes you to our range of Copper termination connectors to suit copper conductors. Our range of Copper Lugs/Links complies to Australian & New Zealand standard AS/NZS4325 Part 1:1995 as well as International Standards.



| Technical data                | Specification of Copper Grade C11000     |
|-------------------------------|------------------------------------------|
| Conductive material           | Copper 99.99.25% pure                    |
|                               | Oxygen content 30 p.p.m Max.             |
|                               | Tensile strength 205 Mpa Min             |
|                               | Ductile rating 40%                       |
|                               | Final metal state fully annealed         |
|                               | Electroplating material tin 99.9% pure   |
|                               | Other metals lead + antimony             |
|                               | Thickness 5 -10 microns                  |
| Conformant standards          | AS/NZS4325 Part 1:1995                   |
| General electrical properties | Total conductivity 99.99.25% IACS        |
|                               | Total resistivity: 1.72 micro-ohm cm     |
| Operating temperature         | -55°C to 155°C due to oxygen-free copper |

## COPPER CRIMP LINKS

| Part number | Conductor size (mm <sup>2</sup> ) | Stranding metric | ID size (mm) | Full length (mm) | A/F hex (mm) | Pack qty |
|-------------|-----------------------------------|------------------|--------------|------------------|--------------|----------|
| CCL105      | 1.5                               | 1/0.80           | 1.8          | 22               |              | 100      |
| CCL205      | 2.5                               | 7/0.67           | 2.4          | 22               |              | 100      |
| CCL040      | 4                                 | 7/0.85           | 3.1          | 22               |              | 50       |
| CCL060      | 6                                 | 7/1.04           | 3.8          | 22               | 4.4          | 50       |
| CCL010      | 10                                | 7/1.35           | 4.7          | 22               | 5.7          | 50       |
| CCL016      | 16                                | 7/1.70           | 5.5          | 44               | 6.3          | 50       |
| CCL025      | 25                                | 19/1.35          | 7.1          | 47               | 7.7          | 50       |
| CCL035      | 35                                | 19/1.53          | 8.4          | 47               | 9.2          | 25       |
| CCL050      | 50                                | 19/1.78          | 9.5          | 47               | 10.4         | 25       |
| CCL070      | 70                                | 19/2.14          | 11.2         | 50               | 11.5         | 20       |
| CCL095      | 95                                | 37/1.78          | 13.4         | 54               | 14.2         | 20       |
| CCL120      | 120                               | 37/2.03          | 15.6         | 60               | 16.5         | 20       |
| CCL150      | 150                               | 37/2.25          | 16.7         | 65               | 18.3         | 20       |
| CCL185      | 185                               | 37/2.52          | 18.4         | 65               | 20           | 20       |
| CCL240      | 240                               | 61/2.25          | 21.2         | 91               | 23.1         | 10       |
| CCL300      | 300                               | 61/2.52          | 23.8         | 90               | 26           | 1        |

## COPPER LUGS

| Part number | Conductor size (mm²) | Stranding metric | Stud (mm) | ID size (mm) | Palm width (mm) | Barrel length (mm) | Full length (mm) | A/F hex (mm) | Pack qty |
|-------------|----------------------|------------------|-----------|--------------|-----------------|--------------------|------------------|--------------|----------|
| CL2.5-5     | 2.5                  | 7/0.67           | M5        | 2.4          | 10              | 8                  | 21               |              | 100      |
| CL2.5-6     |                      |                  | M6        |              | 12              |                    | 26               |              |          |
| CL2.5-8     |                      |                  | M8        |              |                 |                    |                  |              |          |
| CL04-5      | 4                    | 7/0.85           | M5        | 3.1          | 10              | 9                  | 22               |              | 50       |
| CL04-6      |                      |                  | M6        |              | 12              |                    | 27               |              |          |
| CL04-8      |                      |                  | M8        |              |                 |                    |                  |              |          |
| CL06-5      | 6                    | 7/1.04           | M5        | 3.8          | 10              | 9                  | 23               | 4.4          | 50       |
| CL06-6      |                      |                  | M6        |              | 12              |                    | 27               |              |          |
| CL06-8      |                      |                  | M8        |              |                 | 10                 |                  |              |          |
| CL06-10     |                      |                  | M10       |              | 15              |                    | 32               |              |          |
| CL10-6      | 10                   | 7/1.35           | M6        | 4.7          | 12              | 10                 | 27               | 5.7          | 25       |
| CL10-8      |                      |                  | M8        |              | 14              |                    | 29               |              |          |
| CL10-10     |                      |                  | M10       |              | 15              |                    | 32               |              |          |
| CL10-12     |                      |                  | M12       |              | 18              | 11                 | 38               |              |          |
| CL16-6      | 16                   | 7/1.70           | M6        | 5.5          | 11              | 19                 | 39               | 6.3          | 25       |
| CL16-8      |                      |                  | M8        |              | 14              |                    | 41               |              |          |
| CL16-10     |                      |                  | M10       |              | 16              |                    |                  |              |          |
| CL16-12     |                      |                  | M12       |              | 18              |                    |                  |              |          |
| CL25-6      | 25                   | 19/1.35          | M6        | 7.1          | 13.5            | 21                 | 41               | 7.7          | 25       |
| CL25-8      |                      |                  | M8        |              | 16              |                    | 44               |              |          |
| CL25-10     |                      |                  | M10       |              |                 |                    |                  |              |          |
| CL25-12     |                      |                  | M12       |              |                 |                    |                  |              |          |
| CL35-6      | 35                   | 19/1.53          | M6        | 8.4          | 16              | 21                 | 45               | 9.2          | 25       |
| CL35-8      |                      |                  | M8        |              | 18              |                    | 51               |              |          |
| CL35-10     |                      |                  | M10       |              |                 |                    |                  |              |          |
| CL35-12     |                      |                  | M12       |              |                 |                    |                  |              |          |
| CL50-6      | 50                   | 19/1.78          | M6        | 9.5          | 18              | 22                 | 46               | 10.4         | 10       |
| CL50-8      |                      |                  | M8        |              | 21              |                    | 54               |              |          |
| CL50-10     |                      |                  | M10       |              |                 |                    |                  |              |          |
| CL50-12     |                      |                  | M12       |              |                 |                    |                  |              |          |
| CL70-6      | 70                   | 19/2.14          | M6        | 11.3         | 21              | 24                 | 54               | 11.5         | 10       |
| CL70-8      |                      |                  | M8        |              | 21              |                    | 54               |              |          |
| CL70-10     |                      |                  | M10       |              |                 |                    |                  |              |          |
| CL70-12     |                      |                  | M12       |              |                 |                    |                  |              |          |
| CL95-8      | 95                   | 37/1.78          | M8        | 13.5         | 25              | 27                 | 60               | 14.2         | 10       |
| CL95-10     |                      |                  | M10       |              |                 |                    | 64               |              |          |
| CL95-12     |                      |                  | M12       |              |                 |                    |                  |              |          |
| CL95-16     |                      |                  | M16       |              |                 |                    |                  |              |          |
| CL120-8     | 120                  | 37/2.03          | M8        | 15.6         | 30              | 30                 | 64               | 16.5         | 10       |
| CL120-10    |                      |                  | M10       |              |                 |                    | 72               |              |          |
| CL120-12    |                      |                  | M12       |              |                 |                    |                  |              |          |
| CL120-16    |                      |                  | M16       |              |                 |                    |                  |              |          |
| CL150-10    | 150                  | 37/2.25          | M10       | 16.7         | 32              | 30                 | 71               | 18.3         | 1        |
| CL150-12    |                      |                  | M12       |              |                 |                    | 75               |              |          |
| CL150-16    |                      |                  | M16       |              |                 |                    |                  |              |          |
| CL185-10    | 185                  | 37/2.52          | M10       | 18.4         | 36              | 32                 | 74               | 20           | 1        |
| CL185-12    |                      |                  | M12       |              | 36              | 32                 | 79               |              |          |
| CL185-16    |                      |                  | M16       |              | 36              | 32                 | 79               |              |          |
| CL240-10    | 240                  | 61/2.25          | M10       | 21.2         | 41              | 38                 | 92               | 23.1         | 1        |
| CL240-12    |                      |                  | M12       |              | 41              | 38                 | 92               |              |          |
| CL240-16    |                      |                  | M16       |              | 41              | 38                 | 92               |              |          |
| CL300-10    | 300                  | 61/2.52          | M10       | 23.8         | 46              | 42                 | 101              | 26           | 1        |
| CL300-12    |                      |                  | M12       |              |                 |                    | 101              |              |          |
| CL400-12    | 400                  | 61/2.85          | M12       | 26.8         | 50              | 44                 | 114              | 28.1         | 1        |
| CL500-12    | 500                  | 61/3.20          | M12       | 30           | 56              | 50                 | 119              | 31           | 1        |
| CL630-12    | 630                  | 127/2.52         | M12       | 34           | 64.4            | 58                 | 139              | 37           | 1        |