





## Copper and Aluminium Cable Lugs / Butt-Connectors and PIN Terminals

Copper and Aluminium Families




### HEXAGONAL COMPRESSION

| Copper Connectors  | Aluminium Connectors  | Tools  |   | Section mm <sup>2</sup> |           | Die    |        |
|--|---|--|---|-------------------------|-----------|--------|--------|
|  |   |  |   | Copper                  | Aluminium | Code   | Ref.   |
|  |  |  |  | 10                      |           | 437101 | U5-K07 |
|  |   |  |   | 16                      |           | 437110 | U5-K08 |
|  |   |  |   | 25                      | 16        | 437130 | U5-K10 |
|  |   |  |   | 35                      | 25        | 437150 | U5-K11 |
|  |   |  |   | 50                      | 35        | 437160 | U5-K13 |
|  |   |  |   | 70                      | 50        | 437170 | U5-K14 |
|  |   |  |   | 95                      | 70        | 437180 | U5-K17 |
|  |   |  |   | 120                     | 95        | 437190 | U5-K18 |
|  |   |  |   | 150                     | 120       | 437200 | U5-K20 |
|  |   |  |   | 185                     | 150       | 437210 | U5-K22 |
|  | 240   | 185  | 437220  | U5-K25                  |           |        |        |

## Copper Compression Clamps

Families CRC





### ELLIPTICAL COMPRESSION

| Copper Connectors   | Tools   |   | Section mm <sup>2</sup> |        | Die    |         |
|---|---|---|-------------------------|--------|--------|---------|
|   |   |   | Main                    | Tap    | Code   | Ref.    |
|  |  |  | 6-2,5                   | 6-2,5  | 462080 | U5-DC6  |
|   |   |   | 10                      | 10-1,5 | 462090 | U5-DC10 |
|   |   |   | 16                      | 16-1,5 | 462100 | U5-DC25 |
|   |   |   | 25-16                   | 10-1,5 |        |         |
|   |   |   | 25                      | 25-16  | 462110 | U5-DC35 |
|   |   |   | 35                      | 16-1,5 |        |         |
|   |   |   | 35                      | 35-25  |        |         |
|   |   |   | 50                      | 25-10  |        |         |
|   |   |   | 70-50                   | 25-1,5 | 462120 | U5-DC70 |
|   |   |   | 50                      | 25-4   |        |         |
|   |   |   | 50                      | 50-35  |        |         |
|   |   |   | 70-50                   | 35-4   |        |         |
| 70-50   | 70-35   |   |                         |        |        |         |

## Copper and Aluminium Cable Lugs and Butt-Connectors

Copper and Aluminium Families

### HEXAGONAL COMPRESSION

| Copper Connectors  | Aluminium Connectors  | Tools  | Sección mm <sup>2</sup>   | Die  |        |          |
|--|---|--|---|------|--------|----------|
|  |   |  |   | Code | Ref.   |          |
|  |  |  |  | 10   | 441101 | U13-K07  |
|  |   |  |   | 16   | 441110 | U13-K08  |
|  |   |  |   | 25   | 441120 | U13-K10  |
|  |   |  |   | 35   | 441130 | U13-K11  |
|  |   |  |   | 50   | 441150 | U13-K13  |
|  |   |  |   | 70   | 441170 | U13-K14  |
|  |   |  |   | 95   | 441180 | U13-K17  |
|  |   |  |   | 120  | 441190 | U13-K18  |
|  |   |  |   | 150  | 441200 | U13-K20  |
|  |   |  |   | 185  | 441210 | U13-K22  |
|  |   |  |   | 240  | 441220 | U13-K25  |
|  |   |  |   | 300  | 441230 | U13-K28  |
|  |   |  |   | 400  | 441250 | U13-K32  |
|  |   |  |   |      | 441260 | U13-K34  |
|  |   |  |   |      | 447159 | MK34-230 |
|  | 447160  | MK38-230   |   |      |        |          |
|  | 447165  | MK42-230   |   |      |        |          |
|  | 447170  | MK44-230   |   |      |        |          |

## Copper Cable Lugs and Butt-Connectors and Pin Terminals

Copper Families

### PUNCHING COMPRESSION

| Copper Connectors   | Tools   | Sección mm <sup>2</sup> | Die    |          | Punch   |        |           |
|---|---|-------------------------|--------|----------|---|--------|-----------|
|   |   |                         | Code   | Ref.     | Code  | Ref.   |           |
|  |  | 10                      | 446100 | U13-S10  |  | 446230 | U13-PZ120 |
|   |   | 16                      | 446110 | U13-S16  |   |        |           |
|   |   | 25                      | 446120 | U13-S25  |   |        |           |
|   |   | 35                      | 446130 | U13-S35  |   |        |           |
|   |   | 50                      | 446140 | U13-S50  |   |        |           |
|   |   | 70                      | 446150 | U13-S70  |   |        |           |
|   |   | 95                      | 446160 | U13-S95  |   |        |           |
|   |   | 120                     | 446170 | U13-S120 |   |        |           |
|   |   | 150                     | 446180 | U13-S150 |   |        |           |
|   |   | 185                     | 446190 | U13-S185 |   |        |           |
|   |   | 240                     | 446200 | U13-S240 |   |        |           |
|   |   | 300                     | 446210 | U13-S300 |   |        |           |
|   | 446231  | U13-PZ240               |        |          |   |        |           |
|   | 446240  | U13-PZ300               |        |          |   |        |           |

# Die Sector Chart

TOOLS CATALOGUE

## DIN STANDARD

Hexagonal crimping dies according to DIN 48083 for connectors according to DIN 46235

### COPPER COMPRESSION

| Tools | Cross Section mm <sup>2</sup> |  | Code No. | Code   | Ref.   | Cross Section mm <sup>2</sup> |  | Code No. | Code   | Ref.     |
|-------|-------------------------------|--|----------|--------|--------|-------------------------------|--|----------|--------|----------|
|       | 10                            |  | 6        | 447100 | MK6-C  | 150                           |  | 22       | 447140 | MK22-C   |
|       | 16                            |  | 8        | 447105 | MK8-C  | 185                           |  | 25       | 447145 | MK25-C   |
|       | 25                            |  | 10       | 447110 | MK10-C | 240                           |  | 28       | 447150 | MK28-C   |
|       | 35                            |  | 12       | 447115 | MK12-C | 300                           |  | 32       | 447155 | MK32-C   |
|       | 50                            |  | 14       | 447120 | MK14-C | 300                           |  | 34       | 447159 | MK34-230 |
|       | 70                            |  | 16       | 447125 | MK16-C | 400                           |  | 38       | 447160 | MK38-230 |
|       | 95                            |  | 18       | 447130 | MK18-C | 500                           |  | 42       | 447165 | MK42-230 |
|       | 120                           |  | 20       | 447135 | MK20-C | 630                           |  | 44       | 447170 | MK44-230 |

\* 800 and 1000 mm<sup>2</sup> dies sections and heads under request.

## Bimetallic Cable Lugs and Aluminium Low, Medium and Multi Voltage Joints

Bimetallic and Aluminium Families



### DEEP PUNCHING COMPRESSION

| Tools | Connectors | Section mm <sup>2</sup> | Adapter  |          |        | Die    |        |        | Punch  |          |
|-------|------------|-------------------------|----------|----------|--------|--------|--------|--------|--------|----------|
|       |            |                         | Code     | Ref.     |        | Code   | Ref.   |        | Code   | Ref.     |
|       |            | 25                      | 471110   | AD13-150 |        | 456100 | 95MCB  |        | 456150 | PPR95    |
|       |            | 35                      |          |          |        |        |        |        |        |          |
|       |            | 50                      |          |          |        |        |        |        |        |          |
|       |            | 70                      |          |          |        |        |        |        |        |          |
|       |            | 95                      |          |          |        |        |        |        |        |          |
|       |            | 120                     |          |          |        |        |        |        |        |          |
|       | 150        | 471120                  | AD13-240 |          | 456110 | 150MCB |        | 456160 | PPR150 |          |
|       | 185        |                         |          |          |        |        |        |        |        |          |
|       | 240        |                         |          |          |        |        |        |        |        |          |
|       | 25         |                         |          |          |        |        |        |        |        |          |
|       | 35         |                         |          |          |        |        |        |        |        |          |
|       | 50         |                         |          |          |        |        |        |        |        |          |
| 70    | 471110     | AD13-150                |          | 456130   | 95MC1S |        | 456150 | PPR95  |        |          |
| 95    |            |                         |          |          |        |        |        |        |        |          |
| 120   |            |                         |          |          |        |        |        |        |        |          |
| 150   |            |                         |          |          |        |        |        |        |        |          |
| 185   |            |                         |          |          |        |        |        |        |        |          |
| 240   |            |                         |          |          |        |        |        |        | 471120 | AD13-240 |
| 150   |            |                         |          |          |        |        |        |        |        |          |
| 185   |            |                         |          |          |        |        |        |        |        |          |
| 240   |            |                         |          |          |        |        |        |        |        |          |
| 185   |            |                         |          |          |        |        |        |        |        |          |
| 240   |            |                         |          |          |        |        |        |        |        |          |




## Copper, Aluminium and Bimetallic Compression Clamps

Families CRC, CRA and CRS




### CIRCULAR COMPRESSION

| Connectors | Tools |  | Crimpi | Main |      | Tap  |      | Die  |      |
|------------|-------|--|--------|------|------|------|------|------|------|
|            |       |  |        | Max. | Min. | Max. | Min. | Code | Ref. |




#### APPLICATIONS TO COPPER CLAMPS

|   |  |   |        |     |     |     |    |        |           |
|---|--|---|--------|-----|-----|-----|----|--------|-----------|
|  |  |  | CRC-3  | 25  | 10  | 6   | 4  | 463100 | U13-DC25  |
|   |  |   | CRC-4  | 25  | 16  | 10  | 4  | 463100 | U13-DC25  |
|   |  |   | CRC-5  | 25  | 16  | 25  | 16 | 463100 | U13-DC25  |
|   |  |   | CRC-6  | 35  | 35  | 25  | 4  | 463110 | U13-DC35  |
|   |  |   | CRC-7  | 35  | 35  | 35  | 16 | 463110 | U13-DC35  |
|   |  |   | CRC-8  | 70  | 50  | 35  | 4  | 463120 | U13-DC70  |
|   |  |   | CRC-9  | 70  | 50  | 70  | 35 | 463120 | U13-DC70  |
|   |  |   | CRC-10 | 95  | 70  | 35  | 16 | 463140 | U13-DC95  |
|   |  |   | CRC-11 | 95  | 70  | 70  | 35 | 463140 | U13-DC95  |
|   |  |   | CRC-12 | 95  | 95  | 95  | 95 | 463140 | U13-DC95  |
|   |  |   | CRC-13 | 120 | 120 | 120 | 25 | 463170 | U13-DC185 |
|   |  |   | CRC-14 | 185 | 150 | 95  | 50 | 463170 | U13-DC185 |
|   |  |   | CRC-15 | 150 | 150 | 150 | 70 | 463170 | U13-DC185 |
|   |  |   | CRC-16 | 185 | 120 | 185 | 95 | 463170 | U13-DC185 |

#### APPLICATIONS TO ALUMINIUM CLAMPS

|   |   |   |        |     |     |     |    |        |           |
|---|---|---|--------|-----|-----|-----|----|--------|-----------|
|  |  |  | CRA-1  | 35  | 25  | 35  | 25 | 463110 | U13-DC35  |
|   |   |   | CRA-2  | 70  | 50  | 50  | 50 | 463180 | U13-DA70  |
|   |   |   | CRA-3  | 120 | 95  | 35  | 10 | 463190 | U13-DA120 |
|   |   |   | CRA-3A | 120 | 95  | 120 | 95 | 463190 | U13-DA120 |
|   |   |   | CRA-4  | 185 | 150 | 95  | 70 | 463200 | U13-DA185 |

#### APPLICATIONS TO BIMETALLIC CLAMPS

|   |   |   |        |     |     |     |     |        |           |
|---|---|---|--------|-----|-----|-----|-----|--------|-----------|
|  |  |  | CRS-0  | 35  | 10  | 35  | 10  | 463180 | U13-DA70  |
|   |   |   | CRS-1  | 35  | 16  | 10  | 2,5 | 463100 | U13-DC25  |
|   |   |   | CRS-2  | 70  | 35  | 10  | 2,5 | 463110 | U13-DC35  |
|   |   |   | CRS-3  | 120 | 50  | 70  | 10  | 463140 | U13-DC95  |
|   |   |   | CRS-8  | 120 | 95  | 120 | 70  | 463190 | U13-DA120 |
|   |   |   | CRS-9  | 185 | 120 | 70  | 10  | 463210 | U13-DA300 |
|   |   |   | CRS-10 | 240 | 120 | 150 | 70  | 463210 | U13-DA300 |
|   |   |   | CRS-11 | 240 | 95  | 240 | 95  | 463210 | U13-DA300 |
|   |   |   | CRS-12 | 300 | 240 | 70  | 10  | 463210 | U13-DA300 |