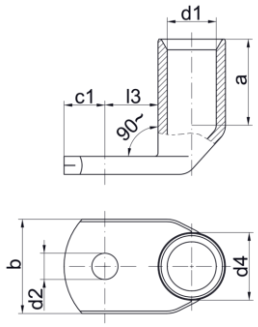
# Data sheet R-Series angled

Available from 6 up to 400mm², bolt size M5 up to M20.



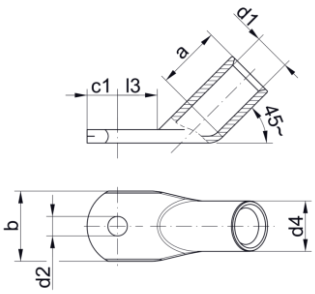
**Figure similar 90°**




**Drawing 90°**



**Figure similar 45°**




**Drawing 45°**

## A1: Dimensions (90°):

| Nennquer-schnitt mm² | Anschl.-bolzen ø | Art.-Nr. | Abmessung mm | | | | | | | Gewicht/ 100 St. ~ kg | VE/St. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | d1 | a | b | d2 | d4 | c1 | l3 | | |
| 6 | M5 | **41R5** | 3,5 | 9 | 10 | 5,5 | 6,5 | 7,5 | 9 | 0,59 | 50 |
| | M6 | **41R6** | 3,5 | 9 | 12 | 6,5 | 6,5 | 7,5 | 10 | 0,58 | 50 |
| | M8 | **41R8** | 3,5 | 9 | 14 | 8,5 | 6,5 | 10,0 | 13 | 0,61 | 50 |
| | M10 | **41R10** | 3,5 | 9 | 17 | 10,5 | 6,5 | 12,0 | 15 | 0,65 | 50 |
| | M12 | **41R12** | 3,5 | 9 | 19 | 13,0 | 6,5 | 13,0 | 17 | 0,62 | 50 |
| 10 | M5 | **42R5** | 4,5 | 10 | 12 | 5,5 | 7,0 | 6,5 | 10 | 0,57 | 50 |
| | M6 | **42R6** | 4,5 | 10 | 12 | 6,5 | 7,0 | 6,5 | 10 | 0,57 | 50 |
| | M8 | **42R8** | 4,5 | 10 | 15 | 8,5 | 7,0 | 10,0 | 13 | 0,63 | 50 |
| | M10 | **42R10** | 4,5 | 10 | 17 | 10,5 | 7,0 | 12,0 | 15 | 0,66 | 50 |
| | M12 | **42R12** | 4,5 | 10 | 19 | 13,0 | 7,0 | 13,0 | 18 | 0,81 | 50 |
| 16 | M5 | **43R5** | 5,5 | 13 | 12 | 5,5 | 8,5 | 7,5 | 10 | 1,01 | 50 |
| | M6 | **43R6** | 5,5 | 13 | 12 | 6,5 | 8,5 | 7,5 | 11 | 1,01 | 50 |
| | M8 | **43R8** | 5,5 | 13 | 15 | 8,5 | 8,5 | 10,0 | 13 | 1,08 | 50 |
| | M10 | **43R10** | 5,5 | 13 | 17 | 10,5 | 8,5 | 12,0 | 15 | 1,09 | 50 |
| | M12 | **43R12** | 5,5 | 13 | 19 | 13,0 | 8,5 | 13,0 | 18 | 1,15 | 50 |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | M5 | 44R5 | 7,0 | 15 | 14 | 5,5 | 10,0 | 7,5 | 11 | 1,40 | 25 |
| | M6 | 44R6 | 7,0 | 15 | 14 | 6,5 | 10,0 | 7,5 | 11 | 1,32 | 25 |
| | M8 | 44R8 | 7,0 | 15 | 16 | 8,5 | 10,0 | 10,0 | 13 | 1,44 | 25 |
| | M10 | 44R10 | 7,0 | 15 | 18 | 10,5 | 10,0 | 12,0 | 15 | 1,49 | 25 |
| | M12 | 44R12 | 7,0 | 15 | 19 | 13,0 | 10,0 | 13,0 | 18 | 1,44 | 25 |
| | M14 | 44R14 | 7,0 | 15 | 21 | 15,0 | 10,0 | 14,5 | 20 | 1,55 | 25 |
| 35 | M6 | 45R6 | 8,5 | 17 | 17 | 6,5 | 12,0 | 7,5 | 11 | 2,05 | 25 |
| | M8 | 45R8 | 8,5 | 17 | 17 | 8,5 | 12,0 | 10,0 | 13 | 2,20 | 25 |
| | M10 | 45R10 | 8,5 | 17 | 19 | 10,5 | 12,0 | 12,0 | 15 | 2,28 | 25 |
| | M12 | 45R12 | 8,5 | 17 | 21 | 13,0 | 12,0 | 13,0 | 18 | 2,38 | 25 |
| | M14 | 45R14 | 8,5 | 17 | 21 | 15,0 | 12,0 | 14,5 | 20 | 2,41 | 25 |
| | M16 | 45R16 | 8,5 | 17 | 26 | 17,0 | 12,0 | 16,0 | 22 | 2,40 | 25 |
| 50 | M6 | 46R6 | 10,0 | 19 | 20 | 6,5 | 14,0 | 10,0 | 13 | 3,34 | 25 |
| | M8 | 46R8 | 10,0 | 19 | 20 | 8,5 | 14,0 | 10,0 | 13 | 3,28 | 25 |
| | M10 | 46R10 | 10,0 | 19 | 20 | 10,5 | 14,0 | 12,0 | 16 | 3,47 | 25 |
| | M12 | 46R12 | 10,0 | 19 | 23 | 13,0 | 14,0 | 13,0 | 18 | 3,42 | 25 |
| | M14 | 46R14 | 10,0 | 19 | 23 | 15,0 | 14,0 | 14,5 | 20 | 3,55 | 25 |
| | M16 | 46R16 | 10,0 | 19 | 28 | 17,0 | 14,0 | 16,0 | 22 | 3,58 | 25 |
| | M20 | 46R20 | 10,0 | 19 | 30 | 21,0 | 14,0 | 19,0 | 24 | 3,15 | 25 |
| 70 | M6 | 47R6 | 12,0 | 21 | 23 | 6,5 | 16,5 | 10,0 | 13 | 4,90 | 25 |
| | M8 | 47R8 | 12,0 | 21 | 23 | 8,5 | 16,5 | 10,0 | 14 | 4,80 | 25 |
| | M10 | 47R10 | 12,0 | 21 | 23 | 10,5 | 16,5 | 12,0 | 16 | 4,88 | 25 |
| | M12 | 47R12 | 12,0 | 21 | 23 | 13,0 | 16,5 | 13,0 | 18 | 4,99 | 25 |
| | M14 | 47R14 | 12,0 | 21 | 23 | 15,0 | 16,5 | 14,5 | 20 | 5,38 | 25 |
| | M16 | 47R16 | 12,0 | 21 | 28 | 17,0 | 16,5 | 16,0 | 22 | 5,35 | 25 |
| | M20 | 47R20 | 12,0 | 21 | 30 | 21,0 | 16,5 | 19,0 | 24 | 5,30 | 25 |
| 95 | M8 | 48R8 | 13,5 | 25 | 26 | 8,5 | 18,0 | 12,0 | 14 | 5,89 | 25 |
| | M10 | 48R10 | 13,5 | 25 | 26 | 10,5 | 18,0 | 12,0 | 17 | 5,88 | 25 |
| | M12 | 48R12 | 13,5 | 25 | 26 | 13,0 | 18,0 | 13,0 | 18 | 5,93 | 25 |
| | M14 | 48R14 | 13,5 | 25 | 26 | 15,0 | 18,0 | 14,5 | 20 | 6,03 | 25 |
| | M16 | 48R16 | 13,5 | 25 | 28 | 17,0 | 18,0 | 16,0 | 22 | 6,17 | 25 |
| | M20 | 48R20 | 13,5 | 25 | 36 | 21,0 | 18,0 | 22,0 | 24 | 6,42 | 25 |
| 120 | M8 | 49R8 | 15,0 | 26 | 28 | 8,5 | 19,5 | 14,0 | 16 | 7,26 | 10 |
| | M10 | 49R10 | 15,0 | 26 | 28 | 10,5 | 19,5 | 14,0 | 17 | 7,30 | 10 |
| | M12 | 49R12 | 15,0 | 26 | 28 | 13,0 | 19,5 | 14,0 | 18 | 7,19 | 10 |
| | M14 | 49R14 | 15,0 | 26 | 28 | 15,0 | 19,5 | 15,0 | 20 | 7,30 | 10 |
| | M16 | 49R16 | 15,0 | 26 | 30 | 17,0 | 19,5 | 16,0 | 22 | 7,35 | 10 |
| | M20 | 49R20 | 15,0 | 26 | 36 | 21,0 | 19,5 | 22,0 | 24 | 7,60 | 10 |
| 150 | M8 | 50R8 | 16,5 | 30 | 31 | 8,5 | 21,0 | 14,0 | 16 | 8,41 | 10 |
| | M10 | 50R10 | 16,5 | 30 | 31 | 10,5 | 21,0 | 14,0 | 17 | 8,27 | 10 |
| | M12 | 50R12 | 16,5 | 30 | 31 | 13,0 | 21,0 | 15,0 | 18 | 8,34 | 10 |
| | M14 | 50R14 | 16,5 | 30 | 31 | 15,0 | 21,0 | 15,0 | 20 | 8,52 | 10 |
| | M16 | 50R16 | 16,5 | 30 | 31 | 17,0 | 21,0 | 16,0 | 22 | 8,62 | 10 |
| | M20 | 50R20 | 16,5 | 30 | 36 | 21,0 | 21,0 | 22,0 | 24 | 9,10 | 10 |
| 185 | M10 | 51R10 | 19,0 | 30 | 35 | 10,5 | 24,0 | 18,0 | 22 | 12,17 | 10 |
| | M12 | 51R12 | 19,0 | 30 | 35 | 13,0 | 24,0 | 18,0 | 22 | 11,97 | 10 |
| | M14 | 51R14 | 19,0 | 30 | 35 | 15,0 | 24,0 | 18,0 | 22 | 11,77 | 10 |
| | M16 | 51R16 | 19,0 | 30 | 35 | 17,0 | 24,0 | 18,0 | 22 | 11,53 | 10 |
| | M20 | 51R20 | 19,0 | 30 | 39 | 21,0 | 24,0 | 22,0 | 24 | 12,00 | 10 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 240 | M10 | **52R10** | 21,0 | 35 | 39 | 10,5 | 26,0 | 21,5 | 22 | 15,60 | 10 |
| | M12 | **52R12** | 21,0 | 35 | 39 | 13,0 | 26,0 | 21,5 | 22 | 15,60 | 10 |
| | M14 | **52R14** | 21,0 | 35 | 39 | 15,0 | 26,0 | 21,5 | 22 | 15,41 | 10 |
| | M16 | **52R16** | 21,0 | 35 | 39 | 17,0 | 26,0 | 21,5 | 22 | 15,18 | 10 |
| | M20 | **52R20** | 21,0 | 35 | 39 | 21,0 | 26,0 | 21,5 | 24 | 14,80 | 10 |
| 300 | M12 | **53R12** | 23,5 | 44 | 43 | 13,0 | 29,5 | 24,0 | 24 | 23,60 | 5 |
| | M14 | **53R14** | 23,5 | 44 | 43 | 15,0 | 29,5 | 24,0 | 24 | 23,40 | 5 |
| | M16 | **53R16** | 23,5 | 44 | 43 | 17,0 | 29,5 | 24,0 | 24 | 20,99 | 5 |
| | M20 | **53R20** | 23,5 | 44 | 43 | 21,0 | 29,5 | 24,0 | 24 | 22,70 | 5 |
| 400 | M12 | **54R12** | 27,0 | 44 | 49 | 13,0 | 34,0 | 24,0 | 24 | 32,53 | 5 |
| | M14 | **54R14** | 27,0 | 44 | 49 | 15,0 | 34,0 | 24,0 | 24 | 33,40 | 5 |
| | M16 | **54R16** | 27,0 | 44 | 49 | 17,0 | 34,0 | 24,0 | 24 | 32,60 | 5 |
| | M20 | **54R20** | 27,0 | 44 | 49 | 21,0 | 34,0 | 24,0 | 24 | 31,80 | 5 |

## A2: Dimensions (45°):

| Nennquer-schnitt mm² | Anschl.-bolzen ø | Art.-Nr. | Abmessung mm | | | | | | | Gewicht/ 100 St. ~ kg | VE/St. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | d1 | a | b | d2 | d4 | c1 | l3 | | |
| 6 | M5 | **41R545** | 3,5 | 9 | 10 | 5,5 | 6,5 | 7,5 | 9 | 0,60 | 50 |
| | M6 | **41R645** | 3,5 | 9 | 12 | 6,5 | 6,5 | 7,5 | 10 | 0,58 | 50 |
| | M8 | **41R845** | 3,5 | 9 | 14 | 8,5 | 6,5 | 10,0 | 13 | 0,68 | 50 |
| | M10 | **41R1045** | 3,5 | 9 | 17 | 10,5 | 6,5 | 12,0 | 15 | 0,70 | 50 |
| | M12 | **41R1245** | 3,5 | 9 | 19 | 13,0 | 6,5 | 13,0 | 17 | 0,70 | 50 |
| 10 | M5 | **42R545** | 4,5 | 10 | 12 | 5,5 | 7,0 | 6,5 | 10 | 0,57 | 50 |
| | M6 | **42R645** | 4,5 | 10 | 12 | 6,5 | 7,0 | 6,5 | 10 | 0,57 | 50 |
| | M8 | **42R845** | 4,5 | 10 | 15 | 8,5 | 7,0 | 10,0 | 13 | 0,63 | 50 |
| | M10 | **42R1045** | 4,5 | 10 | 17 | 10,5 | 7,0 | 12,0 | 15 | 0,68 | 50 |
| | M12 | **42R1245** | 4,5 | 10 | 19 | 13,0 | 7,0 | 13,0 | 18 | 0,68 | 50 |
| 16 | M5 | **43R545** | 5,5 | 13 | 12 | 5,5 | 8,5 | 7,5 | 10 | 1,01 | 50 |
| | M6 | **43R645** | 5,5 | 13 | 12 | 6,5 | 8,5 | 7,5 | 11 | 1,06 | 50 |
| | M8 | **43R845** | 5,5 | 13 | 15 | 8,5 | 8,5 | 10,0 | 13 | 1,15 | 50 |
| | M10 | **43R1045** | 5,5 | 13 | 17 | 10,5 | 8,5 | 12,0 | 15 | 1,09 | 50 |
| | M12 | **43R1245** | 5,5 | 13 | 19 | 13,0 | 8,5 | 13,0 | 18 | 1,15 | 50 |
| 25 | M5 | **44R545** | 7,0 | 15 | 14 | 5,5 | 10,0 | 7,5 | 11 | 1,40 | 25 |
| | M6 | **44R645** | 7,0 | 15 | 14 | 6,5 | 10,0 | 7,5 | 11 | 1,32 | 25 |
| | M8 | **44R845** | 7,0 | 15 | 16 | 8,5 | 10,0 | 10,0 | 13 | 1,44 | 25 |
| | M10 | **44R1045** | 7,0 | 15 | 18 | 10,5 | 10,0 | 12,0 | 15 | 1,49 | 25 |
| | M12 | **44R1245** | 7,0 | 15 | 19 | 13,0 | 10,0 | 13,0 | 18 | 1,44 | 25 |
| | M14 | **44R1445** | 7,0 | 15 | 21 | 15,0 | 10,0 | 14,5 | 20 | 1,55 | 25 |
| 35 | M6 | **45R645** | 8,5 | 17 | 17 | 6,5 | 12,0 | 7,5 | 11 | 2,05 | 25 |
| | M8 | **45R845** | 8,5 | 17 | 17 | 8,5 | 12,0 | 10,0 | 13 | 2,20 | 25 |
| | M10 | **45R1045** | 8,5 | 17 | 19 | 10,5 | 12,0 | 12,0 | 15 | 2,28 | 25 |
| | M12 | **45R1245** | 8,5 | 17 | 21 | 13,0 | 12,0 | 13,0 | 18 | 2,38 | 25 |
| | M14 | **45R1445** | 8,5 | 17 | 21 | 15,0 | 12,0 | 14,5 | 20 | 2,41 | 25 |
| | M16 | **45R1645** | 8,5 | 17 | 26 | 17,0 | 12,0 | 16,0 | 22 | 2,40 | 25 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | M6 | 46R645 | 10,0 | 19 | 20 | 6,5 | 14,0 | 10,0 | 13 | 3,43 | 25 |
| | M8 | 46R845 | 10,0 | 19 | 20 | 8,5 | 14,0 | 10,0 | 13 | 3,28 | 25 |
| | M10 | 46R1045 | 10,0 | 19 | 20 | 10,5 | 14,0 | 12,0 | 16 | 3,47 | 25 |
| | M12 | 46R1245 | 10,0 | 19 | 23 | 13,0 | 14,0 | 13,0 | 18 | 3,42 | 25 |
| | M14 | 46R1445 | 10,0 | 19 | 23 | 15,0 | 14,0 | 14,5 | 20 | 3,65 | 25 |
| | M16 | 46R1645 | 10,0 | 19 | 28 | 17,0 | 14,0 | 16,0 | 22 | 3,76 | 25 |
| | M20 | 46R2045 | 10,0 | 19 | 30 | 21,0 | 14,0 | 19,0 | 24 | 3,30 | 25 |
| 70 | M6 | 47R645 | 12,0 | 21 | 23 | 6,5 | 16,5 | 10,0 | 13 | 5,06 | 25 |
| | M8 | 47R845 | 12,0 | 21 | 23 | 8,5 | 16,5 | 10,0 | 14 | 5,06 | 25 |
| | M10 | 47R1045 | 12,0 | 21 | 23 | 10,5 | 16,5 | 12,0 | 16 | 5,25 | 25 |
| | M12 | 47R1245 | 12,0 | 21 | 23 | 13,0 | 16,5 | 13,0 | 18 | 5,30 | 25 |
| | M14 | 47R1445 | 12,0 | 21 | 23 | 15,0 | 16,5 | 14,5 | 20 | 5,60 | 25 |
| | M16 | 47R1645 | 12,0 | 21 | 28 | 17,0 | 16,5 | 16,0 | 22 | 5,61 | 25 |
| | M20 | 47R2045 | 12,0 | 21 | 30 | 21,0 | 16,5 | 19,0 | 24 | 5,60 | 25 |
| 95 | M8 | 48R845 | 13,5 | 25 | 26 | 8,5 | 18,0 | 12,0 | 14 | 6,19 | 25 |
| | M10 | 48R1045 | 13,5 | 25 | 26 | 10,5 | 18,0 | 12,0 | 17 | 5,70 | 25 |
| | M12 | 48R1245 | 13,5 | 25 | 26 | 13,0 | 18,0 | 13,0 | 18 | 6,67 | 25 |
| | M14 | 48R1445 | 13,5 | 25 | 26 | 15,0 | 18,0 | 14,5 | 20 | 6,60 | 25 |
| | M16 | 48R1645 | 13,5 | 25 | 28 | 17,0 | 18,0 | 16,0 | 22 | 6,78 | 25 |
| | M20 | 48R2045 | 13,5 | 25 | 36 | 21,0 | 18,0 | 22,0 | 24 | 6,80 | 25 |
| 120 | M8 | 49R845 | 15,0 | 26 | 28 | 8,5 | 19,5 | 14,0 | 16 | 7,92 | 10 |
| | M10 | 49R1045 | 15,0 | 26 | 28 | 10,5 | 19,5 | 14,0 | 17 | 7,99 | 10 |
| | M12 | 49R1245 | 15,0 | 26 | 28 | 13,0 | 19,5 | 14,0 | 18 | 7,96 | 10 |
| | M14 | 49R1445 | 15,0 | 26 | 28 | 15,0 | 19,5 | 15,0 | 20 | 7,94 | 10 |
| | M16 | 49R1645 | 15,0 | 26 | 30 | 17,0 | 19,5 | 16,0 | 22 | 8,26 | 10 |
| | M20 | 49R2045 | 15,0 | 26 | 36 | 21,0 | 19,5 | 22,0 | 24 | 8,20 | 10 |
| 150 | M8 | 50R845 | 16,5 | 30 | 31 | 8,5 | 21,0 | 14,0 | 16 | 9,00 | 10 |
| | M10 | 50R1045 | 16,5 | 30 | 31 | 10,5 | 21,0 | 14,0 | 17 | 9,15 | 10 |
| | M12 | 50R1245 | 16,5 | 30 | 31 | 13,0 | 21,0 | 15,0 | 18 | 8,75 | 10 |
| | M14 | 50R1445 | 16,5 | 30 | 31 | 15,0 | 21,0 | 15,0 | 20 | 9,20 | 10 |
| | M16 | 50R1645 | 16,5 | 30 | 31 | 17,0 | 21,0 | 16,0 | 22 | 9,22 | 10 |
| | M20 | 50R2045 | 16,5 | 30 | 36 | 21,0 | 21,0 | 22,0 | 24 | 9,26 | 10 |
| 185 | M10 | 51R1045 | 19,0 | 30 | 35 | 10,5 | 24,0 | 18,0 | 22 | 13,30 | 10 |
| | M12 | 51R1245 | 19,0 | 30 | 35 | 13,0 | 24,0 | 18,0 | 22 | 13,32 | 10 |
| | M14 | 51R1445 | 19,0 | 30 | 35 | 15,0 | 24,0 | 18,0 | 22 | 13,40 | 10 |
| | M16 | 51R1645 | 19,0 | 30 | 35 | 17,0 | 24,0 | 18,0 | 22 | 12,80 | 10 |
| | M20 | 51R2045 | 19,0 | 30 | 39 | 21,0 | 24,0 | 22,0 | 24 | 13,10 | 10 |
| 240 | M10 | 52R1045 | 21,0 | 35 | 39 | 10,5 | 26,0 | 21,5 | 22 | 16,28 | 10 |
| | M12 | 52R1245 | 21,0 | 35 | 39 | 13,0 | 26,0 | 21,5 | 22 | 16,80 | 10 |
| | M14 | 52R1445 | 21,0 | 35 | 39 | 15,0 | 26,0 | 21,5 | 22 | 16,40 | 10 |
| | M16 | 52R1645 | 21,0 | 35 | 39 | 17,0 | 26,0 | 21,5 | 22 | 16,10 | 10 |
| | M20 | 52R2045 | 21,0 | 35 | 39 | 21,0 | 26,0 | 21,5 | 24 | 16,10 | 10 |
| 300 | M12 | 53R1245 | 23,5 | 44 | 43 | 13,0 | 29,5 | 24,0 | 24 | 24,08 | 5 |
| | M14 | 53R1445 | 23,5 | 44 | 43 | 15,0 | 29,5 | 24,0 | 24 | 24,20 | 5 |
| | M16 | 53R1645 | 23,5 | 44 | 43 | 17,0 | 29,5 | 24,0 | 24 | 23,23 | 5 |
| | M20 | 53R2045 | 23,5 | 44 | 43 | 21,0 | 29,5 | 24,0 | 24 | 23,50 | 5 |
| 400 | M12 | 54R1245 | 27,0 | 44 | 49 | 13,0 | 34,0 | 24,0 | 24 | 34,00 | 5 |
| | M14 | 54R1445 | 27,0 | 44 | 49 | 15,0 | 34,0 | 24,0 | 24 | 33,40 | 5 |
| | M16 | 54R1645 | 27,0 | 44 | 49 | 17,0 | 34,0 | 24,0 | 24 | 34,28 | 5 |
| | M20 | 54R2045 | 27,0 | 44 | 49 | 21,0 | 34,0 | 24,0 | 24 | 31,80 | 5 |

## B: Material specifications:

### 1. General

Material: Cu according EN 13600

### 2. Condition

**2.1** Surface
2.1.1 smooth, bright, even, no tears, scoring, folds, blisters, no other defects
2.1.2 averaged roughness depth Rz max. 2µm
2.1.3 galvanically tined (3 – 5 µm)
2.1.4 Maximum temperature: Min -40°C – Max. 120°C

## C: Processing information:

### 3. Conductor compatibility

Compatible with class 2 conductor when using the hexagonal crimp and compatible with class 2 and class 5 according to IEC 60228 when using the indent crimp of the EKM60ID.

### 4. Standard crimping indent dies

**4.1** EKM60IDCF, indent crimp
4.1.1 10-240 mm²

**4.2 EK30IDML**
4.2.1 6-120 mm²

**4.3** Series 50, hexagonal crimp
4.3.1 Compatible tools
4.3.1.1 Battery mechanic tool: EK50ML
4.3.1.2 Hand tool: K50

| Part No. | R504 | R505 |
|---|---|---|
| Cross section mm² | 6-16 | 16-25 |

**4.4** Series 4, hexagonal crimp
4.4.1 Compatible tools
4.4.1.1 Battery hydraulic tools: EK354ML, EK354
4.4.1.2 Hand tools: K354

| Part No. | HR46 | HR410 | HR416 | HR425 | HR435 | HR450 | HR470 | HR495 | HR4120 | HR4150 |
|---|---|---|---|---|---|---|---|---|---|---|
| Cross section mm² | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 |

## **4.5** Series 22, hexagonal crimp

4.5.1 Compatible tools

4.5.1.1 Battery hydraulic tools: EKM6022, EK6022, EKM60UNV + UA22, EK60UNV + UA22

4.5.1.2 Hand hydraulic tools: HK6022, HK60UNV + UA22

4.5.1.3 Crimping heads: PK22, PK60UNV + UA22

4.5.1.4 Hydraulic tool for workbench: THK22

4.5.1.5 Hand tool: K22

| **Part No.** | **R226** | **R2210** | **R2216** | **R2225** | **R2235** | **R2250** | **R2270** |
|---|---|---|---|---|---|---|---|
| **Cross section mm²** | 6 | 10 | 16 | 25 | 35 | 50 | 70 |
| **Part No.** | **R2295** | **R22120** | **R22150** | **R22185** | **R22240** | **R22300** | |
| **Cross section mm²** | 95 | 120 | 150 | 185 | 240 | 300 | |

## **4.6** Series 13, hexagonal crimp

4.6.1 Compatible tools

4.6.1.1 Battery hydraulic tools: EK12032, EK12042, EK120UNV + UA12TKL, EK120U, EK135FT + UA15T

4.6.1.2 Hand hydraulic tools: HK12030, HK12042, HK120U

4.6.1.3 Crimping heads: PK12042, PK120U, PK252 + 25A13, HK252 + 25A13

4.6.1.4 Hydraulic tool for workbench: THK120

| **Part No.** | **HR1310** | **HR1316** | **HR1325** | **HR1335** | **HR1350** | **HR1370** |
|---|---|---|---|---|---|---|
| **Cross section mm²** | 10 | 16 | 25 | 35 | 50 | 70 |
| **Part No.** | **HR1395** | **HR13120** | **HR13150** | **HR13185** | **HR13240** | **HR13300** |
| **Cross section mm²** | 95 | 120 | 150 | 185 | 240 | 300 |
| **Part No.** | **HR13400** | | | | | |
| **Cross section mm²** | 400 | | | | | |

## **4.7** Series 25, hexagonal crimp

4.7.1 Compatible tools

4.7.2 Crimping heads: HK252, PK252

| **Part No.** | **25A13 + HR1310** | **25A13 + HR1316** | **25A13 + HR1325** | **25A13 + HR1335** | **25A13 + HR1350** | **25A13 + HR1370** |
|---|---|---|---|---|---|---|
| **Cross section mm²** | 10 | 16 | 25 | 35 | 50 | 70 |
| **Part No.** | **25A13 + HR1395** | **25A13 + HR13120** | **HR25150 / 25A13 + HR13150** | **HR25185 / 25A13 + HR13185** | **HR25240 / 25A13 + HR13240** | **HR25300 / 25A13 + HR13300** |
| **Cross section mm²** | 95 | 120 | 150 | 185 | 240 | 300 |
| **Part No.** | **HR25400 / 25A13 + HR13400** | | | | | |
| **Cross section mm²** | 400 | | | | | |

**4.8** Mechanical Hand tools with not interchangeable dies:

| | |
|---|---|
| K2 | 0,75-16 mm², indent crimp |
| K04 | 10-25 mm², hexagonal crimp |
| K05 | 6-50 mm², hexagonal crimp |
| K06 | 6-120 mm², hexagonal crimp |
| K09 | 25-150 mm², hexagonal crimp |
| K95 | 16-95 mm², indent crimp |
| K5 | 6-50 mm², indent crimp |
| K6 | 50-120 mm², indent crimp |
| K07 | 185-400 mm², indent crimp |
| K7 | 120-240 mm², indent crimp |
| K8 | 35-95 mm², indent crimp |

## C: Certification and Tests

1. Underwriters Laboratories (UL) tested and listed acc. to UL 486A-486B
2. IEC 61238-1, class a in an accredited test laboratory
3. DNV certified and listed