

Tabel 6.6-1 Daftar pembebanan penghantar kontinu untuk tembaga penampang persegi

| Ukuran  | Penampang       | Berat | Pembebanan kontinu (A)                      |      |      |      |                            |      |      |      |   |      |      |      |                            |      |      |      |
|---------|-----------------|-------|---|------|------|------|----------------------------|------|------|------|---|------|------|------|----------------------------|------|------|------|
|         |                 |       | Arus bolak-balik                            |      |      |      |                            |      |      |      | Arus searah                                 |      |      |      |                            |      |      |      |
|         |                 |       | Dilapisi lapisan konduktif<br>Jumlah batang |      |      |      | Telanjang<br>Jumlah batang |      |      |      | Dilapisi lapisan konduktif<br>Jumlah batang |      |      |      | Telanjang<br>Jumlah batang |      |      |      |
| mm      | mm <sup>2</sup> | kg/m  | 1   | 2    | 3    | 4    | 1                          | 2    | 3    | 4    | 1   | 2    | 3    | 4    | 1                          | 2    | 3    | 4    |
| 12 x 2  | 24              | 0,23  | 123   | 202  | -    | -    | 100                        | 182  | -    | -    | 123   | 202  | -    | -    | 108                        | 210  | -    | -    |
| 15 x 2  | 30              | 0,27  | 148   | 240  | -    | -    | 128                        | 252  | -    | -    | 148   | 240  | -    | -    | 128                        | 255  | -    | -    |
| 15 x 3  | 45              | 0,40  | 187   | 316  | -    | -    | 162                        | 282  | -    | -    | 187   | 316  | -    | -    | 162                        | 305  | -    | -    |
| 20 x 2  | 40              | 0,36  | 205   | 350  | -    | -    | 185                        | 315  | -    | -    | 210   | 370  | -    | -    | 190                        | 330  | -    | -    |
| 20 x 3  | 60              | 0,53  | 237   | 394  | -    | -    | 204                        | 384  | -    | -    | 237   | 435  | -    | -    | 203                        | 395  | -    | -    |
| 20 x 5  | 100             | 0,89  | 325   | 470  | -    | -    | 290                        | 495  | -    | -    | 330   | 570  | -    | -    | 300                        | 515  | -    | -    |
| 25 x 3  | 75              | 0,67  | 287   | 766  | -    | -    | 245                        | 412  | -    | -    | 287   | 530  | -    | -    | 275                        | 485  | -    | -    |
| 25 x 5  | 125             | 1,11  | 385   | 670  | -    | -    | 350                        | 600  | -    | -    | 400   | 680  | -    | -    | 360                        | 620  | -    | -    |
| 30 x 3  | 90              | 0,80  | 350   | 600  | -    | -    | 315                        | 540  | -    | -    | 448   | 630  | -    | -    | 325                        | 570  | -    | -    |
| 30 x 5  | 150             | 1,34  | 448   | 760  | -    | -    | 379                        | 672  | -    | -    | 475   | 800  | -    | -    | 425                        | 725  | -    | -    |
| 40 x 3  | 120             | 1,07  | 460   | 780  | -    | -    | 420                        | 710  | -    | -    | 470   | 820  | -    | -    | 425                        | 740  | -    | -    |
| 40 x 5  | 200             | 1,78  | 576   | 952  | -    | -    | 482                        | 836  | -    | -    | 576   | 1030 | -    | -    | 550                        | 985  | -    | -    |
| 40 x 10 | 400             | 3,56  | 865   | 1470 | 2060 | 2800 | 715                        | 1290 | 1650 | 2500 | 865   | 1550 | 2180 | -    | 800                        | 1395 | 1950 | -    |
| 50 x 5  | 250             | 2,23  | 703   | 1140 | 1750 | 2310 | 588                        | 994  | 1550 | 2100 | 703   | 1270 | 1870 | -    | 660                        | 1150 | 1700 | -    |
| 50 x 10 | 500             | 4,46  | 1050  | 1720 | 2450 | 3330 | 852                        | 1510 | 2200 | 3000 | 1020  | 1900 | 2700 | -    | 1000                       | 1700 | 2400 | -    |
| 60 x 5  | 300             | 2,67  | 825   | 1400 | 1983 | 2650 | 750                        | 1300 | 1800 | 2400 | 870   | 1500 | 2200 | 2700 | 780                        | 1400 | 1900 | 2500 |
| 60 x 10 | 600             | 5,34  | 1230  | 1960 | 2800 | 3800 | 985                        | 1720 | 2500 | 3400 | 1230  | 2200 | 3100 | 3900 | 1100                       | 2000 | 2800 | 3500 |
| 80 x 5  | 400             | 3,56  | 1060  | 1800 | 2450 | 3300 | 950                        | 1650 | 2700 | 2900 | 1150  | 2000 | 2800 | 3500 | 1000                       | 1800 | 2500 | 3200 |
| 80 x 10 | 800             | 7,12  | 1590  | 2410 | 3450 | 4600 | 1240                       | 2110 | 3100 | 4200 | 1590  | 2800 | 4000 | 5100 | 1450                       | 2600 | 3600 | 4500 |
| 100 x 5 | 500             | 4,45  | 1310  | 2200 | 2950 | 3800 | 1200                       | 2000 | 2800 | 3400 | 1400  | 2500 | 3400 | 4300 | 1250                       | 2250 | 3000 | 3900 |
| 100x10  | 1000            | 8,90  | 1940  | 2850 | 4000 | 5400 | 1490                       | 2480 | 3600 | 4800 | 1940  | 3600 | 4900 | 6200 | 1700                       | 3200 | 4400 | 5500 |

## CATATAN :

- Suhu sekitar 30 - 35 °C.
- Suhu penghantar tembaga maksimum 65 °C.