

# COPPER TO ALUMINUM CONVERSION CHART

| Wire Size and Amp Ratings |              |              |              |              |              |
|---------------------------|--------------|--------------|--------------|--------------|--------------|
| Wire Gauge Size           | Copper       |              |              | Aluminum     |              |
|                           | 60°C (140°F) | 75°C (167°F) | 90°C (197°F) | 75°C (167°F) | 90°C (197°F) |
|                           | NM-B         | THW          | THWN-2       | THW          | XHHW-2       |
|                           | UF-B         | THWN         | THHN         | THWN         | THHN         |
|                           |              | SE           | XHHW-2       | SE           | TWHN-2       |
|                           |              | USE          |              | USE          |              |
|                           | XHHW         |              | XHHW         |              |              |
| 14                        | 15           | 15           | 15           |              |              |
| 12                        | 20           | 20           | 20           | 15           | 15           |
| 10                        | 30           | 30           | 30           | 25           | 25           |
| 8                         | 40           | 50           | 55           | 40           | 45           |
| 6                         | 55           | 65           | 75           | 50           | 55           |
| 4                         | 70           | 85           | 95           | 65           | 75           |
| 3                         | 85           | 100          | 115          | 75           | 85           |
| 2                         | 95           | 115          | 130          | 90           | 100          |
| 1                         |              | 130          | 145          | 100          | 115          |
| 1/0                       |              | 150          | 170          | 120          | 135          |
| 2/0                       |              | 175          | 195          | 135          | 150          |
| 3/0                       |              | 200          | 225          | 155          | 175          |
| 4/0                       |              | 230          | 260          | 180          | 205          |
| 250                       |              | 255          | 290          | 205          | 230          |
| 300                       |              | 285          | 320          | 230          | 260          |
| 350                       |              | 310          | 350          | 250          | 280          |
| 500                       |              | 380          | 430          | 310          | 350          |
| 600                       |              | 420          | 475          | 340          | 385          |
| 750                       |              | 475          | 535          | 385          | 435          |
| 1000                      |              | 545          | 615          | 445          | 500          |