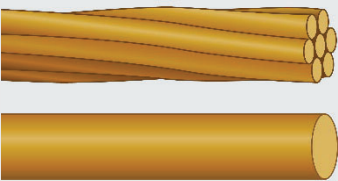


# BARE COPPER WIRE



## APPLICABLE TESTS AND STANDARDS

- ✓ ASTM B-1 AND B-3
- ✓ ICEA S-95-658/NEMA WC70

## VALUE ADD SERVICE

- ✓ CUSTOM LENGTHS AND PUT-UPS
- ✓ 12 AVAILABLE COLORS
- ✓ WIRE PARALLELING AND CABLING
- ✓ WIRE STRIPING
- ✓ CUSTOM PRINT LEGENDS AND LABELS

## SCOPE

Bare copper wire is used primarily for grounding and does not have a protective coating or insulation. Depending on the application, bare copper wires can be solid or stranded, uncoated or coated, and hard, medium-hard drawn, or soft annealed.

## CONSTRUCTION

**Conductors:** Single conductors are solid or stranded uncoated copper.

## IDENTIFICATION AND PACKAGING

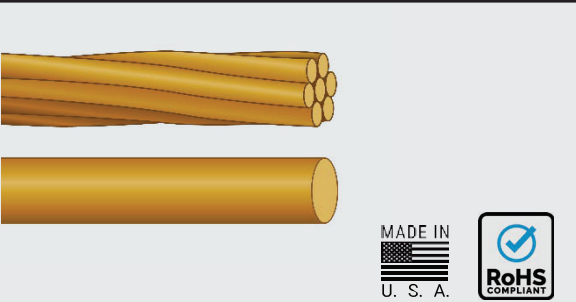
Print legends on the wire include the manufacturer, conductor size, voltage rating, UL symbol (if applicable) and type designation. Standard length spools are 500 or 2500 feet.

| AWG/<br>MCM | Solid      |                 | ASTM B-8<br>Class B<br>Stranding |                 | ASTM B-8<br>Class C<br>Stranding |                 | ASTM B-174 Class K<br>Bunch Stranding |                      |                 | ASTM B-172 Rope-Lay<br>Stranding |                      |                 |
|-------------|------------|-----------------|----------------------------------|-----------------|----------------------------------|-----------------|---------------------------------------|----------------------|-----------------|----------------------------------|----------------------|-----------------|
|             | OD<br>(IN) | LBS. /<br>1000' | OD<br>(IN)                       | LBS. /<br>1000' | OD<br>(IN)                       | LBS. /<br>1000' | OD<br>(IN)                            | NUMBER OF<br>STRANDS | LBS. /<br>1000' | OD<br>(IN)                       | NUMBER OF<br>STRANDS | LBS. /<br>1000' |
| 20          | 0.032      | 3.2             | 0.038                            | 3.4             | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 18          | 0.040      | 4.9             | 0.046                            | 4.9             | -                                | -               | 0.046                                 | 16                   | 4.7             | -                                | -                    | -               |
| 16          | 0.051      | 7.8             | 0.058                            | 7.9             | 0.055                            | 7.9             | 0.059                                 | 26                   | 8.0             | -                                | -                    | -               |
| 14          | 0.064      | 12.4            | 0.073                            | 12.6            | 0.074                            | 12.6            | 0.076                                 | 41                   | 12.7            | -                                | -                    | -               |
| 12          | 0.081      | 19.7            | 0.092                            | 20.0            | 0.092                            | 20.0            | 0.090                                 | 65                   | 20.1            | -                                | -                    | -               |
| 10          | 0.102      | 31.3            | 0.116                            | 31.3            | 0.117                            | 32.0            | 0.118                                 | 105                  | 32.4            | -                                | -                    | -               |
| 8           | 0.128      | 49.8            | 0.146                            | 50.9            | 0.148                            | 50.9            | -                                     | -                    | -               | 0.163                            | 133                  | 52.6            |
| 6           | 0.163      | 79.9            | 0.184                            | 80.7            | 0.179                            | 80.7            | -                                     | -                    | -               | 0.205                            | 133                  | 82.8            |
| 4           | 0.204      | 125.6           | 0.232                            | 128.4           | 0.235                            | 128.5           | -                                     | -                    | -               | 0.257                            | 133                  | 129.3           |
| 2           | 0.258      | 200.9           | 0.292                            | 204.3           | 0.296                            | 204.2           | -                                     | -                    | -               | 0.324                            | 133                  | 204.8           |
| 1           | -          | -               | 0.332                            | 257.7           | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 1/0         | -          | -               | 0.372                            | 324.4           | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 2/0         | -          | -               | 0.419                            | 409.5           | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 3/0         | -          | -               | 0.470                            | 516.5           | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 4/0         | -          | -               | 0.528                            | 650.6           | 0.511                            | 657.3           | -                                     | -                    | -               | -                                | -                    | -               |
| 250         | -          | -               | 0.575                            | 777.1           | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 300         | -          | -               | 0.630                            | 931.5           | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 350         | -          | -               | 0.682                            | 1088.8          | 0.682                            | 1079.7          | -                                     | -                    | -               | -                                | -                    | -               |
| 400         | -          | -               | 0.761                            | 1243.9          | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |
| 500         | -          | -               | 0.812                            | 1552.8          | -                                | -               | -                                     | -                    | -               | -                                | -                    | -               |



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# BARE COPPER WIRE



| RESISTANCE @ 20°C (Ω/1000') |         |                                  |                                  |                                    |                                     |
|-----------------------------|---------|----------------------------------|----------------------------------|------------------------------------|-------------------------------------|
| AWG/MCM                     | Solid   | ASTM B-8<br>Class B<br>Stranding | ASTM B-8<br>Class C<br>Stranding | ASTM B-174<br>Class K<br>Stranding | ASTM B-172<br>Rope-Lay<br>Stranding |
| 20                          | 10.3    | 10.6                             | 10.6                             | -                                  | -                                   |
| 18                          | 6.52    | 6.66                             | 6.66                             | -                                  | -                                   |
| 16                          | 4.10    | 4.18                             | 4.18                             | -                                  | -                                   |
| 14                          | 2.57    | 2.62                             | 2.62                             | 2.62                               | -                                   |
| 12                          | 1.62    | 1.65                             | 1.65                             | 1.65                               | -                                   |
| 10                          | 1.019   | 1.039                            | 1.039                            | 1.04                               | 1.04                                |
| 8                           | 0.6407  | 0.6535                           | 0.6535                           | 0.666                              | 0.654                               |
| 6                           | 0.4031  | 0.4112                           | 0.4112                           | 0.419                              | 0.419                               |
| 4                           | 0.2535  | 0.2585                           | 0.2585                           | 0.263                              | 0.263                               |
| 2                           | 0.1594  | 0.1626                           | 0.1626                           | 0.167                              | 0.166                               |
| 1                           | 0.1264  | 0.1289                           | 0.1289                           | 0.133                              | 0.132                               |
| 1/0                         | 0.1002  | 0.1022                           | 0.1022                           | 0.105                              | 0.105                               |
| 2/0                         | 0.07949 | 0.08108                          | 0.08108                          | 0.0843                             | 0.0834                              |
| 3/0                         | 0.06306 | 0.06431                          | 0.06431                          | 0.0668                             | 0.0662                              |
| 4/0                         | 0.04999 | 0.05099                          | 0.05099                          | 0.053                              | 0.0525                              |
| 250                         | -       | 0.04316                          | 0.04316                          | 0.0449                             | 0.0449                              |
| 300                         | -       | 0.03597                          | 0.03597                          | 0.0373                             | 0.0373                              |
| 350                         | -       | 0.03082                          | 0.03082                          | 0.0323                             | 0.032                               |
| 400                         | -       | 0.02698                          | 0.02698                          | 0.0283                             | 0.028                               |
| 500                         | -       | 0.02158                          | 0.02158                          | 0.0226                             | 0.0224                              |



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