

Cable Length Sizing Guide

| Cable Length in Meters | Circuit Type                    |                            | DC Amps |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|------------------------|---------------------------------|----------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
|                        | 10% Voltage Drop (Non-Critical) | 3% Voltage Drop (Critical) | 5A      | 10A | 15A | 20A | 25A | 30A | 40A | 50A | 60A | 70A | 80A | 90A | 100 A | 120 A | 150 A | 200 A |
| 0-6 m                  | 0-2 m                           |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 6-9 m                  | 2-3 m                           |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 9-15 m                 | 3-4.5 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 15-19 m                | 4.5-6 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 19-24 m                | 6-7.5 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 24-30 m                | 7.5-9 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 30-40 m                | 9-12 m                          |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 40-51 m                | 12-15 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
| 51-61 m                | 15-18 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 18-21 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 21-24 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 24-27 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 27-30 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 30-33 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 33-37 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|                        | 37-40 m                         |                            |         |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |

Gauge Size

| Standard                         | Unit  |       |      |      |      |      |      |      |      |      |      |      |      |  |
|----------------------------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|--|
| AWG                              | 0000  | 000   | 00   | 0    | 1    | 2    | 4    | 6    | 8    | 10   | 12   | 14   | 16   |  |
| Diameter (mm)                    | 11.68 | 10.40 | 9.27 | 8.25 | 7.35 | 6.54 | 5.19 | 4.11 | 3.26 | 2.59 | 2.05 | 1.63 | 1.29 |  |
| Cross Section (mm <sup>2</sup> ) | 107.1 | 84.9  | 67.5 | 53.5 | 42.4 | 33.6 | 21.2 | 13.3 | 8.4  | 5.3  | 3.3  | 2.1  | 1.3  |  |
| Colour Code                      |       |       |      |      |      |      |      |      |      |      |      |      |      |  |