

# CABLE WIRING INFORMATION

## Current Rating vs Cable Diameter

| Nominal Area (mm <sup>2</sup> ) | Nearest AWG | Nominal Current Rating (A) |
|---------------------------------|-------------|----------------------------|
| 0.5                             | 20          | 8                          |
| 1.0                             | 17          | 13                         |
| 1.5                             | 16          | 17                         |
| 2.5                             | 13 / 14     | 24                         |
| 4.0                             | 11 / 12     | 32                         |
| 6.0                             | 10          | 41                         |
| 10.0                            | 8           | 55                         |
| 16.0                            | 6           | 69                         |
| 25.0                            | 4           | 84                         |

## Wiring Recommendations

- Ensure that cable insulators are undamaged.
- Ensure that all cables are unwound and not kinked.
- Ensure that all connections are sound with no inner cables or conductors visible.
- Ensure that all conductors are of sufficient current rating for the applied load.
- Ensure that all connectors are of sufficient current rating for the applied load.
- Always protect the equipment with the correctly rated fuses.
- Always isolate equipment before removing cables from sockets.
- Cables can be damaged and due care should be taken to avoid situations in which they could be crushed, driven over, over forced or bent beyond their recommended tolerance.
- Electricity can kill. Never take electricity itself or associated equipment and appliances for granted.

## Cable Colours

### Single Phase

| Country | Wire    | Colour         |
|---------|---------|----------------|
| Europe  | Live    | Brown          |
|         | Neutral | Blue           |
|         | Earth   | Green / Yellow |

|     |         |       |
|-----|---------|-------|
| USA | Live    | Black |
|     | Neutral | White |
|     | Earth   | Green |

### Three Phase

| Country | Wire    | Colour         |
|---------|---------|----------------|
| Europe  | Phase 1 | Red            |
|         | Phase 2 | Yellow         |
|         | Phase 3 | Blue           |
|         | Neutral | Black          |
|         | Earth   | Green / Yellow |

|     |         |       |
|-----|---------|-------|
| USA | Phase 1 | Red   |
|     | Phase 2 | Black |
|     | Phase 3 | White |
|     | Earth   | Green |

## Cable Connector Colours & Wiring

