safety
GFCI / ELCI / EGFPD
Coleman Cable, along with its subsidiary Technology Research Corporation (TRC), has an extensive line of electrical safety products that ensures protection from dangerous current leakage that can cause electrical shock and possible electrocution. Our patented technologies enable you to protect people, property and equipment.

Coleman Cable’s Shock Shield® products are everyday electrical safety devices for use at home, the office, on construction sites or wherever people use portable electrical equipment. These devices are required to be used throughout the USA in accordance with the following nationally accepted regulations:

• NEC (2008) Article 590.6 Temporary Installations
• OSHA Standard for General Industry, 29 CFR, 1910 Subpart S
• OSHA Standard for Construction Industry, 29 CFR, 1926.404(b)
• UL 943

Shock Shield® products also meet Canadian Standard CSA CAN/CSA-C22.2 No. 144.1-06

Need protection at higher voltage and higher current? Coleman Cable’s HD-PRO™ series provides heavy duty ground fault protection for high current, rugged environments. The HD-PRO™ series of electrical protection products have been designed with TRC’s patented GFCI/ELCI technology and are available with ratings from 120V/30A single phase up to 600V/100A three phase and engineered to trip within 25 milliseconds, after ground fault detection, at trip levels that range from 6mA to 50mA. The HD-PRO™ Series employs contactors that are fully rated for motor switching demands and designed to protect expensive high current, high voltage equipment at the point of use while offering substantial shock protection for individuals as well.

Unprotected cables are at risk for damage from vehicles and pedestrian traffic. They also pose a tripping and entanglement hazard for personnel. All can result in costly repairs and downtime. Coleman Cable’s cable management system, Yellow Jacket®, provides a variety of cable protection solutions to meet your specific needs from light weight loads to heavy loads up to 21,000 pounds. These solutions support all of your on the ground requirements.

Based on data from the National Fire Protection Association, electrical failures were factors in over 13% of home fires in 2009 in the US. The special braided shield on Coleman Cable’s Fire Shield® products allows the plug-mounted electronics to continuously monitor for insulation breakdown or broken/frayed conductors. Standard electrical cords have no means of monitoring for leakage currents and cannot shut off power before these currents can arc and start a fire. Fire Shield® technology is available on extension cords and a variety of surge strips. Protect your family and equipment from the damaging effects of power surges and spikes.

CCI — Power with the best™
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Single Outlet GFCI Adapters

Provides GFCI and single mode surge protection (listed UL 1449) with any appliance or tool used indoors. Its small size (less than 3” high and 2” wide) makes it perfect for the toolbox and offers portable protection for institutional and residential applications:

- Cost effective
- Perfect for Power Tools, Saws, Drills, Extension Cords, Lighting

To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Available in yellow with button boots or white. Provides compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.”

**FEATURES**

14650 006-6 (White) ☑
14650 023-5 (White) CCI 02800
14650 013-6 (Yellow)

- Volts/Amps: 120V/15A
- NEMA 5-15 P & R
- Trip Level: 4 - 6 mA
- MOV - 314 joules

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grounded Neutral</td>
<td>4 Ohms typical</td>
</tr>
<tr>
<td>Trip response time for ground fault and grounded neutral trip</td>
<td>less than 25mS</td>
</tr>
<tr>
<td>Voltage surge withstand</td>
<td>3kv ringwave test and 4kv/2kA surge immunity test</td>
</tr>
<tr>
<td>Radio frequency noise susceptibility</td>
<td>operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-35°C to 66°C</td>
</tr>
<tr>
<td>Effect of 10 Amp turn DC Shock on ground fault trip</td>
<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>mechanical indicator</td>
</tr>
</tbody>
</table>
GFCI & ELCI User Attachable Plugs

The user attachable plug is ideal for existing equipment without GFCI protection, the male connector can be removed and the GFCI plug easily attached to equipment’s cord. Applications include:

- Pressure Washers
- Drain Snakes
- Floor Cleaners
- Industrial Appliances
- Power Tools
- Boat Lifts
- Extension Cords

Rainproof rated, UL listed for outdoor use. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Allows compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations” and OSHA regulation. Available with yellow or black case.

**FEATURES**

**14880 002-6 GFCI**
- Volts/Amps: 120V/15A
- Accepts 18 - 12 AWG (SJT)
- NEMA 5 - 15 P, Yellow
- Trip Level: 4 - 6 mA

**24230 101-3 ELCI**
- Volts/Amps: 120V/15A
- Accepts 18 - 12 AWG (SJT)
- NEMA 5-15 P, Black
- Trip Level: 10 mA

**14880 232-6 GFCI**
- Volts/Amps: 120V/15A
- Accepts 18 - 12 AWG (SJT)
- NEMA 5 - 15 P, Black
- Trip Level: 4 - 6 mA

**54880 004-6 GFCI**
- Volts/Amps: 120V/20A
- Accepts 18 - 12 AWG (SJT)
- NEMA 5 - 20 P, Black
- Trip Level: 4 - 6 mA

**TECHNICAL DATA**

- Grounded Neutral: 4 Ohms typical
- Trip response time for ground fault and grounded neutral trip: less than 25mS
- Voltage surge withstand: 3kv ringwave test and 4kv/2kA surge immunity test
- Radio frequency noise susceptibility: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -35°C to 66°C
- Effect of 10 Amp turn DC Shock on ground fault trip: 5% maximum trip level variation
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: mechanical indicator

* Applies to 14880-002 and 54880-004
Auto Reset GFCI User Attachable Plug

The user attachable GFCI is ideal for existing equipment without GFCI protection. The male connector can be removed and the GFCI easily attached to the equipment’s cord. Applications include:

- Pressure Washers
- Floor Cleaners
- Power Tools
- Boat Lifts
- Drain Snakes
- Industrial Appliances
- Pumps
- Vending Machines

Rainproof rated, UL listed for outdoor use. Manual reset is required after GFCI trip and does not have to be reset with loss of power. Allows compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Wiring” and OSHA regulation. Available in black only.

FEATURES

35190 001-6

- Volts/Amps: 120V/15A
- Accepts 18 - 12 AWG (SJT, SJTW)
- NEMA 5 - 15 P
- Trip Level: 4 - 6 mA

TECHNICAL DATA

- Trip response time for ground fault and grounded neutral trip: less than 25mS
- Voltage surge withstand: 3kv ringwave test and 4kv/2kA surge immunity test
- Radio frequency noise susceptibility: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency: 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -35°C to 66°C
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: lighted indicator
GFCI In-Line User Attachables

The in-line user attachable is ideal for existing equipment without GFCI protection, and can be easily attached by connecting the GFCI in series with the supply cable 9 to 10 inches from the plug end to provide GFCI protection. Applications include:

▶ Pressure Washers
▶ Floor Cleaners
▶ Power Tools
▶ Boat Lifts
▶ Drain Snakes
▶ Industrial Appliances
▶ Pumps
▶ Extension Cords

Rainproof rated, UL listed for outdoor use. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Allows compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations” and OSHA regulation. Available with yellow or black case.

FEATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts/Amps: 120V/20A or 240V/20A</th>
<th>Accepts 18 - 12 AWG (SJT)</th>
<th>Trip Level: 4 - 6 mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>25000 016-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25230 001-6</td>
<td></td>
<td></td>
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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Grounded Neutral</th>
<th>4 Ohms typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trip response time for ground fault and grounded neutral trip</td>
<td>less than 25mS</td>
</tr>
<tr>
<td>Voltage surge withstand</td>
<td>3kv ringwave test and 4kv/2kA surge immunity test</td>
</tr>
<tr>
<td>Radio frequency noise susceptibility</td>
<td>operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-35°C to 66°C</td>
</tr>
<tr>
<td>Effect of 10 Amp turn DC Shock on ground fault trip</td>
<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>lighted indicator</td>
</tr>
</tbody>
</table>
GFCI In-Line User Attachables

The in-line user attachable is ideal for existing equipment without GFCI protection, and can be easily attached by connecting the GFCI in series with the supply cable 9 to 10 inches from the plug end to provide GFCI protection. Applications include:

- Pressure Washers
- Floor Cleaners
- Power Tools
- Boat Lifts
- Drain Snakes
- Industrial Appliances
- Pumps
- Extension Cords

Rainproof rated, UL listed for outdoor use. These units require manual reset after all fault conditions or interruption of the power supply. Allows compliance with NEC 2008 Article 590.6, “Temporary Installations” and OSHA regulation. Available with yellow or black case.

FEATURES

- 30040 006-6
  - Volts/Amps: 120V/20A
  - Accepts 16 - 12 AWG (ST)
  - Trip Level: 4 - 6 mA

- 30050 003-3
  - Volts/Amps: 240V/20A
  - Accepts 16 - 12 AWG (ST)
  - Trip Level: 4 - 6 mA

TECHNICAL DATA

- Grounded Neutral: 4 Ohms typical
- Trip response time for ground fault and grounded neutral trip: less than 25mS
- Voltage surge withstand: 3kv ringwave test and 4kv surge immunity test
- Radio frequency noise susceptibility: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -35˚C to 66˚C
- Effect of 10 Amp turn DC Shock on ground fault trip: 5% maximum trip level variation
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: mechanical indicator
ELCI In-Line User Attachables

Dual user attachable configurations for OEM connection of cable. Units are dual voltage rated. Operation and trip times equal or exceed that of the GFCI’s. Provides equipment protection for office equipment. Applications include:

- Copiers
- Printers
- Scanners
- Film Processors
- Image Setters
- Appliances

To prevent unmonitored equipment startup, manual reset is required after ELCI trip. Does not require reset following disruption of primary power.

**FEATURES**

<table>
<thead>
<tr>
<th>26140 010-6</th>
<th>25040 101-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts/Amps: 120V/20A &amp; 240V/16A</td>
<td>Volts/Amps: 120V/20A &amp; 240V/16A</td>
</tr>
<tr>
<td>Accepts 18 - 12 AWG (SJT)</td>
<td>Accepts 18 - 12 AWG (SJT)</td>
</tr>
<tr>
<td>Trip Level: 30 mA</td>
<td>Trip Level: 10 mA</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

- **Trip response time for ground fault**: less than 25mS
- **Voltage surge withstand**: 3kv ringwave test and 4kv/2kA surge immunity test
- **Radio frequency noise susceptibility**: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- **Frequency**: 50 / 60 Hz
- **Endurance**: 5,000 operations minimum
- **Overload Current**: six times rated current
- **Operating temperature range**: 10°C to 60°C
- **Insulation voltage (Hi-Pot)**: 1500 VRMS - 1 Min.
- **Power On indication**: lighted indicator
PRCD In-Line User Attachables


Applications include:
- Pressure Washers
- Drain Snakes
- Floor Cleaners
- Power Tools
- Industrial Appliances
- Boat Lifts
- Pumps
- Extension Cords

To prevent unmonitored equipment startup, manual reset is required after PRCD trip and power outage.

FEATURES

57010 501-6
- Volts/Amps: 230V/16A
- Accepts 1.5 - 2.5mm² conductor/ 7.8-16.2mm dia. Cord Sets
- Trip Level: 10 mA max.
- CE Compliant

57040 501-6
- Volts/Amps: 120V/20A
- Accepts 1.5 - 2.5mm² conductor/ 7.8-16.2mm dia. Cord Sets
- Trip Level: 6 mA max.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Operating Voltage Range</th>
<th>120/127 or 230V nominal @ 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Load Current</td>
<td>20 amps max.</td>
</tr>
<tr>
<td>Residual Current Trip Window</td>
<td>6, 10, 30mA</td>
</tr>
<tr>
<td>Response Time</td>
<td>40ms max at 5(IΔn)</td>
</tr>
<tr>
<td>Contacts</td>
<td>Normally Open (Manual Reset)</td>
</tr>
<tr>
<td></td>
<td>Contacts open with loss of power</td>
</tr>
<tr>
<td>Environmental Rating</td>
<td>IP-54</td>
</tr>
</tbody>
</table>

LOAD SIDE

STRAIN VELVET CORDSET
TYPICAL BOTH ENDS

ACCEPTS 12AWG, 14AWG, 16AWG CABLE SIZES
GFCI Right Angle Cord Sets

Ideal for use by contractors and industrial maintenance personnel working with extension cords or portable tools. Provides compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.” Applications include:

- High Pressure Sprayer Washers
- Drain Snakes
- Construction Sites
- Power Tools
- Pumps
- Industrial Appliances


Custom cable gauges, lengths and terminations available by special order. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Available with yellow or black case.

**FEATURES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Volts/Amps:</th>
<th>Cord Gauge:</th>
<th>Trip Level:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14880 001-6</td>
<td>9”</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>4 - 6 mA</td>
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<tr>
<td>14880 002-3</td>
<td>6’</td>
<td>120V/15A</td>
<td>12/3 AWG</td>
<td>4 - 6 mA</td>
</tr>
<tr>
<td>14880 0074-2</td>
<td>25’</td>
<td></td>
<td>NEMA 5-15P &amp; R</td>
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<tr>
<td>14880 122-1</td>
<td>50’</td>
<td></td>
<td>NEMA 5-15P &amp; R</td>
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<tr>
<td>14880 013-3</td>
<td></td>
<td></td>
<td>Trip Level: 4 - 6 mA</td>
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</tbody>
</table>

**TECHNICAL DATA**

- Grounded Neutral: 4 Ohms typical
- Trip response time for ground fault and grounded neutral trip: less than 25mS
- Voltage surge withstand: 3kv ringwave test and 4kv/2kA surge immunity test
- Radio frequency noise susceptibility: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -35˚C to 66˚C
- Effect of 10 Amp turn DC Shock on ground fault trip: 5% maximum trip level variation
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: mechanical indicator
GFCI In-Line Cord Sets

Excellent for industrial plant maintenance, equipment service and construction site applications. Provides compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.” Applications include:

- High Pressure Sprayer Washers
- Drain Snakes
- Construction Sites
- Construction Site Power Tools
- Pumps
- Industrial Appliances

Rainproof rated, UL listed for outdoor use. Custom cable gauges, lengths and terminations available by special order. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage.

FEATURES

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
<th>Volts/Amps</th>
<th>Cord Gauge</th>
<th>NEMA Code</th>
<th>Color</th>
<th>Trip Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>25080 011-6</td>
<td>2'</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>5-20 P&amp;R</td>
<td>Yellow</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>25080 016-3</td>
<td>6'</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>5-20 P&amp;R</td>
<td>Yellow</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>25080 025-2</td>
<td>25'</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>5-20 P&amp;R</td>
<td>Yellow</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>25080 100-1</td>
<td>100'</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>5-20 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 002-6</td>
<td>2'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 121-6</td>
<td>2'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
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<tr>
<td>26020 007-3</td>
<td>6'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 124-2</td>
<td>25'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 050-1</td>
<td>50'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 099-1</td>
<td>100'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 125-2</td>
<td>25'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>26020 150-1</td>
<td>50'</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15 P&amp;R</td>
<td>Black</td>
<td>4-6 mA</td>
</tr>
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TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
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<tr>
<td>Grounded Neutral</td>
<td>4 Ohms typical</td>
</tr>
<tr>
<td>Trip response time for ground fault and grounded neutral trip</td>
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<td>Voltage surge withstand</td>
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<td>3,000 operations minimum</td>
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<tr>
<td>Overload Current</td>
<td>six times rated current</td>
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<td>Operating temperature range</td>
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<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>lighted indicator</td>
</tr>
</tbody>
</table>
GFCI In-Line Cord Sets

Designed for rugged duty. Molded from high impact polymer with booted reset and test buttons. At home in hostile environments such as industrial, construction, maintenance and commercial work sites. Provides compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.” Applications include:

- High Pressure Sprayer Washers
- Drain Snakes
- Construction Sites
- Industrial Appliances

Rainproof rated, UL listed for outdoor use. Standard lengths: 2’, 6’, and 25’ with corresponding locking connectors. Custom cable gauges, lengths and terminations available by special order. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage.

**FEATURES**

- **44700 004-3** (2’)
- **44700 005-2** (6’)
- **44700 006-1** (25’)
- Volt/Amps: 120V/30A
- Cord Gauge: 10/3 AWG
- NEMA L5-30P & R
- Trip Level: 4 - 6 mA

- **44720 012-3** (3’)
- **44720 013-2** (6’)
- **44720 020-1** (25’)
- Volt/Amps: 240V/30A
- Cord Gauge: 10/3 AWG
- NEMA L6-30P & R
- Trip Level: 4 - 6 mA

**TECHNICAL DATA**

- Grounded Neutral: 4 Ohms typical
- Trip response time for ground fault and grounded neutral trip: less than 25mS
- Voltage surge withstand: 3kv ringwave test and 4kv/2kA surge immunity test
- Radio frequency noise susceptibility: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -35˚C to 66˚C
- Effect of 10 Amp turn DC Shock on ground fault trip: 5% maximum trip level variation
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: mechanical indicator, red stripe on reset
GFCI In-Line Cord Sets with Molded Locking Connectors

Excellent for industrial plant maintenance, equipment service and construction site applications. Provides compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.” Applications include:

- High Pressure Sprayer Washers
- Drain Snakes
- Construction Sites
- Industrial Appliances

Rainproof rated, UL listed for outdoor use. Standard Lengths: 2’, 6’. Custom cable gauges, lengths and terminations available by special order. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage.

**FEATURES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Volts/Amps</th>
<th>Cord Gauge</th>
<th>NEMA L5</th>
<th>Trip Level</th>
</tr>
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<tbody>
<tr>
<td>26020 097-6</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>L5-15 P &amp; R</td>
<td>4-6 mA</td>
</tr>
<tr>
<td>25080 136-6</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>L5-20 P &amp; R</td>
<td>4-6 mA</td>
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<tr>
<td>25080 137-3</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>L5-20 P &amp; R</td>
<td>4-6 mA</td>
</tr>
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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
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<tbody>
<tr>
<td>Grounded Neutral</td>
<td>4 Ohms typical</td>
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<tr>
<td>Trip response time for ground fault and grounded neutral trip</td>
<td>less than 25mS</td>
</tr>
<tr>
<td>Voltage surge withstand</td>
<td>3kv ringwave test and 4kv/2kA surge immunity test</td>
</tr>
<tr>
<td>Radio frequency noise susceptibility</td>
<td>operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-35˚C to 66˚C</td>
</tr>
<tr>
<td>Effect of 10 Amp turn DC Shock on ground fault trip</td>
<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>lighted indicator</td>
</tr>
</tbody>
</table>
GFCI In-Line Cord Sets with Auto Reset

The in line user attachable GFCI cord set is ideal for existing equipment without GFCI protection. Applications include:

- Drain Snakes
- Floor Cleaners
- Refrigeration
- Pumps
- Signs
- Vending Machines
- Spas

Rainproof rated, UL listed for outdoor use. Manual reset is required after GFCI trip and does not have to be reset with loss of power. Allows compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Wiring” and OSHA regulation. Available in black only.

**TECHNICAL DATA**

- **Trip response time for ground fault and grounded neutral trip**: less than 25mS
- **Voltage surge withstand (MOV Protection)**: 3kV ringwave test and 4kV/2kA surge immunity test
- **Radio frequency noise susceptibility**: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- **Frequency**: 60 Hz
- **Endurance**: 3,000 operations minimum
- **Overload Current**: six times rated current
- **Operating temperature range**: -35°C to 66°C
- **Insulation voltage (Hi-Pot)**: 1500VRMS - 1 Min.
- **Fault indication**: lighted indicator

**FEATURES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts/Amps</th>
<th>Cord Gauge</th>
<th>NEMA</th>
<th>Trip Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>35400 501-6 (2')</td>
<td>120V/15A</td>
<td>14/3 AWG</td>
<td>5-15P &amp; R</td>
<td>4 - 6 mA</td>
</tr>
<tr>
<td>35450 501-6 (2')</td>
<td>120V/20A</td>
<td>12/3 AWG</td>
<td>5 - 20 P &amp; R</td>
<td>4 - 6 mA</td>
</tr>
</tbody>
</table>

UL US LISTED

Shock Shield Ground Fault Protection

Coleman Cable Inc.
800.323.9355 • www.colemancable.com
GFCI Plug Protected Tri-Cords

Heavy duty molded T-head with three receptacles. The GFCI is an integral part of male plug. Provides protection for the extra heavy duty cord and three attached tools. 12 gauge cord is ideal for outdoor - rugged construction type environments. Applications include:

- Construction Sites
- Saws and Drills
- Portable Electric Power Tools
- Multiple Tools Use


To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Provides compliance with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.”

### FEATURES

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Options</th>
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<tr>
<td>14880 023-6</td>
<td>(2') CCI 02832</td>
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<tr>
<td>*14880 224-4</td>
<td>(2') CCI 03392</td>
<td></td>
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<tr>
<td>*14880 226-6</td>
<td>(2')</td>
<td></td>
</tr>
<tr>
<td>14880 004-6</td>
<td>(6')</td>
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<td>14880 118-2</td>
<td>(25')</td>
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<td>14880 119-1</td>
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<td>14880 120-1</td>
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<td>14880 228-6</td>
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<td>14880 229-6</td>
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<td>14880 230-4</td>
<td>(100') CCI 02839</td>
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- Volts/Amps: 120V/15A
- Cord Gauge: 12/3 AWG
- NEMA 5-15P & (3)5-15R
- Trip Level: 4 - 6 mA
- *Lighted receptacle

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications</th>
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<tr>
<td>Grounded Neutral</td>
<td>4 Ohms typical</td>
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<td>Trip response time for ground fault and grounded neutral trip</td>
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<tr>
<td>Voltage surge withstand</td>
<td>3kv ringwave test and 4kv/2kA surge immunity test</td>
</tr>
<tr>
<td>Radio frequency noise susceptibility</td>
<td>operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-35°C to 66°C</td>
</tr>
<tr>
<td>Effect of 10 Amp turn DC Shock on ground fault trip</td>
<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>mechanical indicator</td>
</tr>
</tbody>
</table>
In-Line GFCI Protected Tri-Cords

Heavy duty molded T-head with three receptacles. Provides protection for the extra heavy duty cord and three attached tools. 12 gauge cord is ideal for outdoor - rugged construction type environments.

Applications include:
- Construction Sites
- Portable Electric Power Tools
- Saws and Drills
- Multiple Tools Use


FEATURES

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>26020 145-6</td>
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<td>*26020 146-6</td>
<td>2’</td>
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<tr>
<td>26020 147-2</td>
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<td>26020 148-1</td>
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<td></td>
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<td>26020 149-1</td>
<td>50’</td>
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Volts/Amps: 120V/15A
Cord Gauge: 12/3 AWG, SEOW
NEMA 5-15P & (3)5-15R
Trip Level: 4 - 6 mA
*Lighted receptacle

TECHNICAL DATA

Grounded Neutral 4 Ohms typical
Trip response time for ground fault and grounded neutral trip less than 25mS
Voltage surge withstand 3kv ringwave test and 4kv/2kA surge immunity test
Radio frequency noise susceptibility operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
Frequency 50 / 60 Hz
Endurance 3,000 operations minimum
Overload Current six times rated current
Operating temperature range -35˚C to 66˚C
Effect of 10 Amp turn DC Shock on ground fault trip 5% maximum trip level variation
Insulation voltage 1500 VRMS - 1 Min.
Power On indication lighted indicator
GFCI Plug Protected Quad Boxes

Enclosed in heavy impact resistant polymer case. Spring loaded covers protect each pair of receptacles. “Circuit Breaker” built into box for convenient reset. The GFCI is an integral part of the male connector. Provides protection to the entire cord as well as tools attached. Built to withstand outdoor/rugged-type construction. Applications include:

- Drills
- Lathes
- Multiple tools
- Saws
- Lighting
- Construction Sites


**FEATURES**

- **14880 402-3** (2’)
- **14880 003-3** (6’)
- **14880 425-2** (25’)
- **14880 450-1** (50’)
- **14880 121-1** (99’)
- Volts/Amps: 120V/15A
- Cord Gauge: 12/3 AWG
- NEMA 5-15P & (4)5-15R
- Trip Level: 4 - 6 mA

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Grounded Neutral</td>
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<tr>
<td>Trip response time for ground fault and grounded neutral trip</td>
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<td>Frequency</td>
<td>50 / 60 Hz</td>
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<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
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<tr>
<td>Overload Current</td>
<td>six times rated current</td>
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<tr>
<td>Operating temperature range</td>
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</tr>
<tr>
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<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>mechanical indicator</td>
</tr>
</tbody>
</table>
In-Line GFCI Protected Quad Boxes

Box enclosed in heavy impact resistant polymer case. Spring loaded covers protect each pair of receptacles. “Fast Breaker” built in for convenient reset. GFCI with lighted indicator located at power end provides protection to the cord and tools attached. Applications include:

- Drills
- Saws
- Multiple Tools Use
- Construction Sites

To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Complies with National Electric Code (NEC 2008) Article 590.6 for “Temporary Installations.”

FEATURES

- **26020 009-3** (6’)
- Volts/Amps: 120V/15A
- Cord Gauge: 12/3 AWG
- NEMA 5-15P & (4)5-15R
- Trip Level: 4 - 6 mA

- **26020 010-2** (25’)
- Volts/Amps: 120V/15A
- Cord Gauge: 12/3 AWG
- NEMA 5-15P & (4)5-15R
- Trip Level: 4 - 6 mA

- **26020 004-1** (50’)
- Volts/Amps: 120V/20A
- Cord Gauge: 12/3 AWG
- NEMA 5-20P & (4)5-20R
- Trip Level: 4 - 6 mA

TECHNICAL DATA

- Grounded Neutral: 4 Ohms typical
- Trip response time for ground fault and grounded neutral trip: less than 25mS
- Voltage surge withstand: 3kv ringwave test and 4kv/2kA surge immunity test
- Radio frequency noise susceptibility: operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -35°C to 66°C
- Effect of 10 Amp turn DC Shock on ground fault trip: 5% maximum trip level variation
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: lighted indicator

Coleman Cable Inc.
800.323.9355 • www.colemancable.com
Cord-Connected Portable GFCI with Duplex/Quad GFCI Receptacles

High impact resin with a slant-roof design to prevent water entry. Receptacles can accommodate large plugs. All models are Manual Reset GFCIs. OSHA compliant. Applications include:

- Construction Sites
- Portable Electric Power Tools
- Saws and Drills
- For up to Two Tools

FEATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Volts/Amps: 120V/15A</th>
<th>Cord Gauge: 12/3 SJTW</th>
<th>NEMA 5-15P &amp; (2) 5-15R</th>
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<tbody>
<tr>
<td>02822</td>
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<td>12/3 SJTW</td>
<td>5-15P &amp; (2) 5-15R</td>
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<td>120V/15A</td>
<td>14/3 SJEOW</td>
<td>5-15P &amp; (2) 5-15R</td>
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<tr>
<td>02828</td>
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<td>120V/15A</td>
<td>14/3 SJEOW</td>
<td>5-15P &amp; (2) 5-15R</td>
</tr>
</tbody>
</table>

TECHNICAL DATA

- Maximum operating voltage: 120 Vac
- Maximum operating current: 15 Amp
- Maximum operating wattage: 1800 W
- Temperature rating: -22˚C to +140˚C
- Operating environment: Outdoor, if protected from water entry

Cord-Connected Portable GFCI with Quad GFCI Receptacles

High impact resin with a slant-roof design to prevent water entry. Receptacles can accommodate large plugs. All models are Manual Reset GFCIs. OSHA compliant. Applications include:

- Construction Sites
- Portable Electric Power Tools
- Saws and Drills
- For up to Two Tools

FEATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Volts/Amps: 120V/15A</th>
<th>Cord Gauge: 12/3 SJEOW</th>
<th>NEMA 5-15P &amp; (4) 5-15R</th>
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<td>120V/15A</td>
<td>12/3 SJEOW</td>
<td>L5-20P &amp; (4) 5-20R</td>
</tr>
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</table>

TECHNICAL DATA

- Maximum operating voltage: 120 Vac
- Maximum operating current: 15 Amp
- Maximum operating wattage: 1800 W
- Temperature rating: -22˚C to +140˚C
- Operating environment: Outdoor, if protected from water entry
CCI X-treme Box™ Distribution Unit with GFCI Protection

This rugged equipment is designed to safely distribute temporary power in areas such as construction sites and other jobsite environments. UL Listed for outdoor use and designed to stand up to the toughest workplace conditions. The 125V/20A receptacles on the unit are protected by individual GFCIs with “Power On” indicators. They also provide open neutral and reverse phasing protection. Each unit has been carefully assembled to provide the ultimate in electrical safety as well as meeting current OSHA requirements.

The units use a 50A California Standard power inlet that distributes power to seven receptacles and a 50A California Standard pass-thru power outlet for daisy-chaining additional units. In addition to the six 125V/20A receptacles, each unit has one additional non-GFCI NEMA L6-30 turn-lock receptacle rated 250V/30A. Over current protection is provided by a full complement of circuit breakers located under an easy-access side panel.

**FEATURES**

- 01960, 01962 (roll cage)
- 01970, 01972 (roll cage) – straight blades
- 1 – 125/250V/50A Input
- 1 – 125/250V/50A Pass-thru
- 6 – 125V/20A NEMA 5-20R GFCI
- 1 – 250V/30A NEMA L6-30R Non-GFCI
- GFCI Trip Level: 4-6mA
- UL Listed for Outdoor Use
- Dimensions 14.5”W x 21”L x 11”H

CCI Xtreme Box™ Distribution Unit Model 01962 Wiring Diagram
CCI Mini X-Treme Box
Temporary Power Distribution Unit
with GFCI Protection

Mini X-Treme™ Box
Coleman Cable’s Mini X-Treme Box™ provides more compact and less costly work-site power distribution than our popular full size models. Used along with our restoration adapters, these units are ideal for disaster restoration work where the only available power is from range outlets, dryer outlets or portable generators. Or, they can be used in any situation where a more compact, easier-to-handle unit is desired to safely expand and distribute power on jobsites.

▶ OSHA and NEC Compliant, c(ETL)us Listed, and Certified to CAN/CSA
▶ Reduces electrical hookup and labor time
▶ 8 overload, circuit-breaker protected 20 amp straight blade outlets.
▶ All outlets GFCI protected with open neutral and over-voltage protection
▶ Compact size for ease of use
▶ May be used in vertical or horizontal positions

**FEATURES**

**01980**
▶ L14-30P 30A Power Inlet
▶ 8 – NEMA 5-20R 20A Power Outlets
▶ 2 – 20A Breakers Overload Protection
▶ 2 – 20A GFCI auto reset GFCI Protection

Made to meet OSHA Specifications

Made in USA

ETL us

![Diagram of Mini X-Treme Box](image-url)
Portable Power Cords and Replacement Plugs/Ends/Adapters

Power Distribution Extension Cords; Appliance Cords; Disaster Recovery & Restoration Cords

Rugged temporary power cords for use with the X-Treme Box™ to handle 50A 3-Pole/4-Wire 125/250v AC; safe appliance extension cords; cords for use in disaster recovery, restoration, renovation or maintenance projects requiring temporary, portable power.

**FEATURES**

Temporary Power Cords - 125/250V/50A, 6/3 - 8/1 AWG
- 01918 US, 50’, Type STOW
- 01919 US, 100’, Type STOW
- 01938 Canada, 50’, Assembled with UL/cUL Components
- 01939 Canada, 100’, Assembled with UL/cUL Components

Appliance Extension Cords
- 01854 10’ Dryer Outlet or 30A Straight Generator Outlet
- 01864 10’ Range Outlet or 50A Straight Generator Outlet
- 1493 25’ Generator 10/4 STW Yellow Jacket® L14-30P L14-30R*

Disaster Recovery & Restoration Cords - 10/4 SEOOW
- 01854 10’ 14-30P L1430R UL/CSA
- 01824 10’ 14-30P CA50A UL/CSA
- 01864 10’ 14-50P L14-30R UL/CSA
- 01844 10’ L14-30P CA50A UUCSA

- 01834 10’ 6/3 & 8/1 SEOW 14-50P CA 50A
- 1493 25ft Generator* 10/4 STW Yellow Jacket® L14-30P L14-30R*

*UL and cUL Listed

Replacement Plugs/Ends/Adapters

Replacement plugs/ends/adapters constructed with impact and chemical resistant nylon, designed to keep out moisture and dust.

**FEATURES**

50A/125/250V 3-Pole/4-Wire Plugs/Connectors/Adapter
- 05958* Locking Hubbell Male Plug
- 05959* Locking Hubbell Female Connector
- 05974* Locking Male Plug
- 05975* Locking Female Connector
- 01920 6/4 SEOW 50A “Y” Adapter

*UL and CSA Listed
GFCI Outlet Tester

Designed to check the integrity of the wiring for ground fault and standard outlets. Tests for proper function of GFCI outlets. Features Power Quality Monitor and Nuisance Trip Test.

FEATURES

30090 012-6

- Volts/Amps: 120V/15A
- Wiring Diagnostics - Checks Line Neutral and Ground Wire Integrity
- GFCI Tester - Inspects for proper operation and nuisance tripping. Separate tests for a 6mA ground fault and a 3mA ground fault
- Power Quality Monitor (PQM) - Identifies excessive voltage drop (approx. 6V) on the branch circuit by measuring the voltage between neutral and ground

<table>
<thead>
<tr>
<th></th>
<th>Y</th>
<th>Y</th>
<th>Wired Correctly</th>
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<td>ᵁ</td>
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<td>Y</td>
<td>Hot To Neutral Reversed</td>
</tr>
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<td></td>
<td>Y</td>
<td></td>
<td>Open Ground</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Open Neutral</td>
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<td></td>
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</table>

2.04  2.50

3.70  1.68
Digital Monitor

This compact, easy to use instrument is made with advanced microelectronics and provides accurate testing and monitoring of electrical outlets and systems. Constantly monitors voltage and frequency indicating potential improper polarity and ground wiring. Its small size and rugged construction allows for convenient installation in an electrical outlet or use as a portable service tool.

Voltage is measured as RMS which is much more precise than AC average. RMS metering is the only method that can accurately measure all AC power sources. The RMS voltage and frequency readings are ideal for monitoring modified sine waves such as solid-state generators, inverters and Uninterruptible Power Supply (UPS) products.

The Digital Monitor display will alternate between line voltage in RMS volts and line frequency in Hertz. The LCD display shows an “F” in front of the reading to denote frequency.

Three display modes are available:
- Alternating Voltage & Frequency (VOLT/FREQ.)
- Voltage only (VOLTAGE)
- Frequency only (FREQUENCY)

Pressing the MODE button on the front of the Digital Monitor will cycle through the display modes. Both voltage and frequency are constantly monitored regardless of the display mode.

FEATURES

- Accurate Testing and Monitoring of All AC Power Source Types
- RMS Voltage and Frequency Meter
- Multi-tone Fault Alarm
- Hands-free Auto Reset
- Advanced Microelectronics
- One Button Operation
- Wiring Diagnostics
- LCD Display with LED Backlight

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tr>
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<tr>
<td>Frequency Range</td>
<td>40 / 80 Hz</td>
</tr>
<tr>
<td>Operating Current</td>
<td>0.02 Amp</td>
</tr>
<tr>
<td>Under Voltage Alarm</td>
<td>&lt;102 Vac RMS</td>
</tr>
<tr>
<td>Over Voltage Alarm</td>
<td>&gt;135 Vac RMS</td>
</tr>
<tr>
<td>Under Frequency Alarm</td>
<td>&lt;55 Hz</td>
</tr>
<tr>
<td>Over Frequency Alarm</td>
<td>&gt;65 Hz</td>
</tr>
<tr>
<td>Outlet Type</td>
<td>120V/15A single phase</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>+32°F to +125°F</td>
</tr>
</tbody>
</table>
GFCl Panel Mounts

Provides GFCl protection for personnel and equipment when leakage levels have a potentially lethal ground current in excess of 6 milliamperes. Ideal for equipment where mounting applications require panel or bulkhead mount. Applications include:

- Control Panels
- Pumping Systems
- Appliances

Automatic reset on power restoration following disruption of primary power. 41240-001 is manual reset.

**FEATURES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts/Amps: 120V/20A</th>
<th>L &amp; N - 12 AWG</th>
<th>Trip Level: 4 - 6 mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>32360 001-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33120 001-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33240 001-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41240 001-3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

- Grounded Neutral (33120 only)
  - 4 Ohms typical
- Trip response time for ground fault and grounded neutral trip
  - less than 25mS
- Voltage surge withstand
  - 3kv ringwave test and 4kv/2kA surge immunity test
- Radio frequency noise susceptibility
  - operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz
- Frequency
  - 50 / 60 Hz
- Endurance
  - 3,000 operations minimum
- Overload Current
  - six times rated current
- Operating temperature range
  - -35°C to 66°C
- Effect of 10 Amp turn DC Shock on ground fault trip
  - 5% maximum trip level variation
- Insulation voltage
  - 1500 VRMS - 1 Min.
- Power On indication
  - lighted indicator
ELCI Panel Mount
Provides protection for equipment when leakage levels exceed 10mA. Ideal for equipment where mounting applications require panel or bulkhead mounting. Applications include:

- Testing Equipment
- Copiers
- Medical Equipment
- Electric Control Panels
- Appliances

Manual reset is required after ELCI trip. Remains reset on power restoration following disruption of primary power.

**FEATURES**

24220 100-3

- Volts/Amps: 120V/20A or 240V/16A
- Trip Level: 10 mA Typical
- Accepts 250V female quick disconnect terminals

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grounded Neutral Voltage Range</td>
<td>85 - 264 VAC</td>
</tr>
<tr>
<td>Trip response time for ground fault</td>
<td>less than 25mS</td>
</tr>
<tr>
<td>Voltage surge withstand (MOV Protection)</td>
<td>3kv ringwave test and 4kv/2kA surge immunity test</td>
</tr>
<tr>
<td>Radio frequency noise susceptibility</td>
<td>operates within normal limits with 0.5 volts injected on power line 150kHz-230mHz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>5,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>+10°C to +55°C</td>
</tr>
<tr>
<td>Effect of 10 Amp turn DC Shock on ground fault trip</td>
<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>mechanical indicator</td>
</tr>
</tbody>
</table>
High Power GFCIs

Configured for both in-line and bulk head mount. Engineered to trip within 25 milliseconds. Protects:

- Motors
- Pumping Systems
- Pressure Washers
- Manufacturing Equipment
- Welders
- Hoists

Has 2’ of cable on both line and load side. Will remain reset on power restoration following disruption of primary power. Auto reset.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Response time for ground fault</th>
<th>25mS - typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20°C to +40°C</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>lighted indicator</td>
</tr>
<tr>
<td>Drop out voltage</td>
<td>60% rated voltage - typical</td>
</tr>
<tr>
<td>Reset type</td>
<td>auto</td>
</tr>
<tr>
<td>Connection type</td>
<td>flying leads</td>
</tr>
<tr>
<td>Enclosure</td>
<td>NEMA 4 polymer</td>
</tr>
</tbody>
</table>

**FEATURES**

**23250 003-1 GFCI**
- Volts/Amps: 240V/40A
- Cord Gauge: 8/3 AWG
- Trip Level: 6 mA
- Single Phase

**25500 001-1 GFCI**
- Volts/Amps: 208-240V/30A
- Cord Gauge: 10/4 AWG
- Trip Level: 4-6 mA
- Three Phase

**24130 008-1 GFCI**
- Volts/Amps: 120V/30A
- Cord Gauge: 10/3 AWG
- Trip Level: 4 - 6 mA
- Single Phase

**25500 001-1 GFCI**
- Volts/Amps: 208-240V/30A
- Cord Gauge: 10/4 AWG
- Trip Level: 4-6 mA
- Three Phase
Heavy Duty - High Power ELCIs - 30A

Configured for both in-line and bulk head mount. Engineered to trip within 25 milliseconds. Protects:

- Motors
- Pumping Systems
- Pressure Washers
- Manufacturing Equipment
- Welders
- Hoists

Has 2’ of cable on both line and load side. Will remain reset on power restoration following disruption of primary power.

**FEATURES**

<table>
<thead>
<tr>
<th>24140 002-1 ELCI</th>
<th>24500 006-1 ELCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts/Amps: 240V/30A</td>
<td>Volts/Amps: 208-240V/30A</td>
</tr>
<tr>
<td>Cord Gauge: 10/4 AWG</td>
<td>Cord Gauge: 10/4 AWG</td>
</tr>
<tr>
<td>Trip Level: 10 mA</td>
<td>Trip Level: 10 mA</td>
</tr>
<tr>
<td>Single Phase</td>
<td>Three Phase</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response time for ground fault</td>
<td>25ms - typical</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20°C to +40°C</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500 VRMS - 1 Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>lighted indicator</td>
</tr>
<tr>
<td>Drop out voltage</td>
<td>60% rated voltage - typical</td>
</tr>
<tr>
<td>Reset type</td>
<td>auto</td>
</tr>
<tr>
<td>Connection type</td>
<td>flying leads</td>
</tr>
<tr>
<td>Enclosure</td>
<td>NEMA 4 polymer</td>
</tr>
</tbody>
</table>
Heavy Duty - High Power ELCIs 60A

Configured for both in-line and bulk head mount. Engineered to trip within 25 milliseconds. Protects:

- Motors
- Pumping Systems
- Pressure Washers
- Manufacturing Equipment
- Welders
- Hoists

Has 2' of cable on both line and load side. To prevent equipment startup after ELCI trips, manual reset required. Will reset on power restoration following disruption of primary power.

**FEATURES**

<table>
<thead>
<tr>
<th>24520 001-1</th>
<th>25560 001-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts/Amps: 120V/60A</td>
<td>Volts/Amps: 380V/60A</td>
</tr>
<tr>
<td>Cord Gauge: 4/3 AWG</td>
<td>Cord Gauge: 4/4 AWG</td>
</tr>
<tr>
<td>Trip Level: 10 mA</td>
<td>Trip Level: 30 mA</td>
</tr>
<tr>
<td>Single Phase</td>
<td>Three Phase</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

- Response time for ground fault: 25mS - typical
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -20°C to +40°C
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: lighted indicator
- Drop out voltage: 60% rated voltage - typical
- Reset type: auto
- Connection type: flying leads
- Enclosure: NEMA 4 polymer
Heavy Duty - High Power GFCI/ELCI Adjustables

Configured for both in-line and bulk head mount. Engineered to trip within 25 milliseconds. Protects:

- Motors
- Manufacturing Equipment
- Pumping Systems
- Welders
- Pressure Washers
- Hoists

Has 2' of cable on both line and load side. To prevent equipment startup after GFCI/ELCI trips, manual reset required. Will reset on power restoration following disruption of primary power. 6.10.30™ key enables trip level selection and locking at a trip level with key removal.

FEATURES

<table>
<thead>
<tr>
<th>24396 001-1</th>
<th>24672 001-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volts/Amps:</strong> 277V/30A</td>
<td><strong>Volts/Amps:</strong> 480V/60A</td>
</tr>
<tr>
<td><strong>Cord Gauge:</strong> 10/3 AWG</td>
<td><strong>Cord Gauge:</strong> 4/4 AWG</td>
</tr>
<tr>
<td><strong>Trip Level:</strong> 6, 10 &amp; 30 mA</td>
<td><strong>Trip Level:</strong> 6, 10 &amp; 30 mA</td>
</tr>
<tr>
<td><strong>Single Phase</strong></td>
<td><strong>Three Phase</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>24542 001-1</th>
<th>24846 001-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volts/Amps:</strong> 208-240V/60A</td>
<td><strong>Volts/Amps:</strong> 208-240V/30A</td>
</tr>
<tr>
<td><strong>Cord Gauge:</strong> 4/4 AWG</td>
<td><strong>Cord Gauge:</strong> 8/5 AWG</td>
</tr>
<tr>
<td><strong>Trip Level:</strong> 6, 10 &amp; 30 mA</td>
<td><strong>Trip Level:</strong> 6, 10 &amp; 30 mA</td>
</tr>
<tr>
<td><strong>Three Phase</strong></td>
<td><strong>Three Phase</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>24646 001-1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volts/Amps:</strong> 480V/30A</td>
<td></td>
</tr>
<tr>
<td><strong>Cord Gauge:</strong> 10/4 AWG</td>
<td></td>
</tr>
<tr>
<td><strong>Trip Level:</strong> 6, 10 &amp; 30 mA</td>
<td></td>
</tr>
<tr>
<td><strong>Three Phase</strong></td>
<td></td>
</tr>
</tbody>
</table>

TECHNICAL DATA

- **Response time for ground fault:** 25mS - typical
- **Frequency:** 50 / 60 Hz
- **Endurance:** 3,000 operations minimum
- **Overload Current:** six times rated current
- **Operating temperature range:** -20°C to +40°C
- **Insulation voltage:** 1500 VRMS - 1 Min.
- **Power On indication:** lighted indicator
- **Drop out voltage:** 60% rated voltage - typical
- **Reset type:** auto
- **Connection type:** flying leads
- **Enclosure:** NEMA 4 polymer
Safety Products

Heavy Duty - High Power GFCI/ELCI Adjustables with Trip Level Selector

Heavy Duty - High Power GFCI/ELCIs with Trip Level Selector

TRC has engineered a new option for the HD-PRO™ series called 6.10.30™.

Configured for both in-line and bulk head mount. This unique new design allows the user to select and lock in the most sensitive trip level at which a specific type of equipment can be operated without nuisance tripping. Adjustable settings include trip levels for 6mA, 10mA and 30mA. Trip level flexibility to meet your needs in one single device - HD-PRO™ with 6.10.30™ key enables trip level selection and locking at a trip level with key removal. Protects:

- Motors
- Portable Conveyors
- Pumping Systems
- Welders
- Pressure Washers
- Freight Lifts

FEATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts/Amps</th>
<th>Cord Gauge</th>
<th>Trip Level</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>24736 001-1</td>
<td>480V/100A</td>
<td>2/4 AWG</td>
<td>6, 10 &amp; 30 mA</td>
<td>Three Phase</td>
</tr>
<tr>
<td>24786 001-1</td>
<td>208-240V/80A</td>
<td>4/4 AWG</td>
<td>6, 10 &amp; 30 mA</td>
<td>Three Phase</td>
</tr>
<tr>
<td>24796 001-1</td>
<td>480V/80A</td>
<td>4/4 AWG</td>
<td>6, 10 &amp; 30 mA</td>
<td>Three Phase</td>
</tr>
</tbody>
</table>

TECHNICAL DATA

- Response time for ground fault: 25mS - typical
- Frequency: 50 / 60 Hz
- Endurance: 3,000 operations minimum
- Overload Current: six times rated current
- Operating temperature range: -20°C to +40°C
- Insulation voltage: 1500 VRMS - 1 Min.
- Power On indication: lighted indicator
- Drop out voltage: 60% rated voltage - typical
- Reset type: auto
- Connection type: flying leads
- Enclosure: NEMA 4 polymer
High Power Equipment Ground Fault Protective Devices (EGFPD) and GFCI/ELCI Adjustables

Configured for both in-line and bulk head mount. Engineered to trip within 25 milliseconds. Protects:
- Motors
- Pumping Systems
- Pressure Washers
- Hoists

To prevent equipment startup after EGFPD or GFCI/ELCI trips, manual reset required. Will reset on power restoration following disruption of primary power. Key enables trip level selection and locks at a trip level with key removal.

**FEATURES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Volts/Amps</th>
<th>Trip Level</th>
<th>Connection type</th>
</tr>
</thead>
<tbody>
<tr>
<td>44110 012-1</td>
<td>EGFPD*</td>
<td>208-240V/30A</td>
<td>10, 30 &amp; 50 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44140 012-1</td>
<td>EGFPD*</td>
<td>208-240V/60A</td>
<td>10, 30 &amp; 50 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44120 012-1</td>
<td>EGFPD*</td>
<td>480V/30A</td>
<td>10, 30 &amp; 50 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44130 012-1</td>
<td>EGFPD*</td>
<td>480V/60A</td>
<td>10, 30 &amp; 50 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44610 001-1</td>
<td>GFCI/ELCI</td>
<td>208-240V/30A</td>
<td>6, 10 &amp; 30 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44640 001-1</td>
<td>GFCI/ELCI</td>
<td>208-240V/60A</td>
<td>6, 10 &amp; 30 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44620 001-1</td>
<td>GFCI/ELCI</td>
<td>480V/30A</td>
<td>6, 10 &amp; 30 mA</td>
<td>User attachable</td>
</tr>
<tr>
<td>44630 001-1</td>
<td>GFCI/ELCI</td>
<td>480V/60A</td>
<td>6, 10 &amp; 30 mA</td>
<td>User attachable</td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

- **Response time for ground fault:** 25mS - typical
- **Frequency:** 50 / 60 Hz
- **Endurance:** 3,000 operations minimum
- **Overload Current:** six times rated current
- **Operating temperature range:** -20°C to +40°C
- **Insulation voltage:** 1500 VRMS - 1 Min.
- **Power On indication:** lighted indicator
- **Drop out voltage:** 60% rated voltage - typical
- **Reset type:** auto
- **Connection type:** user attachable
- **Enclosure:** NEMA 4 16 gauge steel
All high power GFCI/ELCIs must be suited for use with solidly grounded systems. The power cords must be connected according to the wiring instructions shown below.

### WIRING INSTRUCTIONS

<table>
<thead>
<tr>
<th>Circuit Type</th>
<th>120V, 277V Unit</th>
<th>240V 1-Ø Unit</th>
<th>208/240V 3-Ø Unit*</th>
<th>208/480/600V 3-Ø Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CIRCUITRY TYPE

- **Single Phase Type A**
  - V = 120
  - V = 277

- **Single Phase Type B**
  - V = 240

- **Three Phase Type C**
  - V = 208 / 240
  - V = 480 / 600

- **Three Phase Type D**
  - V = 208 / 240
  - V = 480 / 600

*Grounding Point May Vary*
Heavy Duty Three Wire Extension Cord Set

Protects all equipment powered by industrial-duty extension cords with highest degree of electrical shock and cord fire prevention. Cord leakage monitoring prevents electrical fires resulting from series or cross line faults. GFCI shock protection for personnel meets OSHA and NEC regulations and protects devices plugged into it.

Applications include:
- Fans
- Power Tools
- Blowers
- Heaters
- Saws
- Basement & Garage Work Sites

Standard length is 25’. To prevent unmonitored equipment startup, manual reset is required after GFCI trip and power outage. Outdoor rated trip unit.

FEATURES

14880 035-2
- Volts/Amps: 125V/15A
- Cord Gauge: 14/3 AWG.
- NEMA 5-15P&R
- Ground Fault Trip Level: 4 - 5.2 mA
- Cord Leakage Trip Level: 2 - 2.6 mA

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Grounded neutral</th>
<th>4 Ohms typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trip response time for ground fault, cord leakage, grounded neutral trip</td>
<td>less than 25mS</td>
</tr>
<tr>
<td>Voltage surge withstand (MOV Protection)</td>
<td>3kv ringwave test and 4kv/2kA surge immunity test</td>
</tr>
<tr>
<td>Radio frequency noise susceptibility</td>
<td>operates within normal limits with 0.5 volts injected on power line 150-230mHz</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Endurance</td>
<td>3,000 operations minimum</td>
</tr>
<tr>
<td>Overload Current</td>
<td>six times rated current</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-35°C to 66°C</td>
</tr>
<tr>
<td>Effect of 10 Amp turn DC Shock on ground fault trip</td>
<td>5% maximum trip level variation</td>
</tr>
<tr>
<td>Insulation voltage</td>
<td>1500VRMS - 1Min.</td>
</tr>
<tr>
<td>Power On indication</td>
<td>mechanical indicator</td>
</tr>
</tbody>
</table>
The World's Safest Surge Strips

Fire Shield® Surge Strips are the only power strips with built-in intelligence to prevent:
- Cord Fires
- Surges
- Overloads

State-of-the-art electronics detect cord damage and disconnect power in 25/1000 of a second, preventing cord fires. Every six minutes there is a cord-related fire in the United States.

The special braided shield allows the plug-mounted electronics to continuously monitor for insulation breakdown or broken/frayed conductors. Standard electrical cords have no means of monitoring for leakage currents and cannot shut off power before these currents can arc and start a fire.

Protect all your sensitive electronic equipment from the damaging effects of power surges and spikes.

FEATURES

90802-3FA
- 1350 Joules
- $25,000 Connected Equipment Warranty
- 3 Foot Cord
- 6-Outlet

90814-2FA
- Coax/Cable/Phone Fax/Modem Protection
- 3500 Joules
- $75,000 Connected Equipment Warranty
- 6 Foot Cord
- 8-Outlet

90885-1
- 1350 Joules
- $25,000 Connected Equipment Warranty
- 12 Foot Cord
- 6-Outlet

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>125V/15A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts/Amps</td>
<td>125V/15A</td>
</tr>
<tr>
<td>Frequency</td>
<td>3kv 50 / 60 Hz test</td>
</tr>
<tr>
<td>Maximum Surge</td>
<td>6,000 Volts</td>
</tr>
<tr>
<td>Cord Gauge</td>
<td>14/3 AWG</td>
</tr>
<tr>
<td>Conductors</td>
<td>3 wire</td>
</tr>
</tbody>
</table>

State-of-the-art electronics detect cord damage by sensing leakage currents in the special braided monitoring shield and disconnect power. The circuitry commands a set of contacts to open within 25/1000ths of a second after detecting a problem, faster than you can blink your eye.
Yellow Jacket® Cable Protection System

A complete cable protection system. Perfect for any application where cables are in harm’s way. Eliminates downtime, costly repairs and reduces liability. Applications for:

- Entertainment Industry
- Institutions and Municipalities
- Industrial, Construction and Utilities

**FEATURES**

- Reduces risk of electrocution and entanglement hazards while protecting cable for power, fluids and communications
- Designed for harsh demanding environments
- Non-conductive, resists oils and solvents
- Available in both three and five channel configurations, cables lay flat and unkinked in their own channel
- Modular design makes installation simple and fast in virtually any configuration
- The Yellow Jacket has a load bearing capacity of 80,000 lbs., or 21,000 lbs. per axle.

**MODEL**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>WEIGHT</th>
<th>SLOT SIZE</th>
<th># OF SLOTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>31104-1</td>
<td>Linear</td>
<td>36&quot;</td>
<td>19&quot;</td>
<td>2&quot;</td>
<td>31 lbs.</td>
<td>1.25&quot;</td>
</tr>
<tr>
<td>31107-1</td>
<td>End Cap Set</td>
<td>6&quot;</td>
<td>19&quot;</td>
<td>2&quot;</td>
<td>8 lbs.</td>
<td>1.25&quot;</td>
</tr>
<tr>
<td>31106-1</td>
<td>Right Turn</td>
<td>25&quot;</td>
<td>19&quot;</td>
<td>2&quot;</td>
<td>17 lbs.</td>
<td>1.25&quot;</td>
</tr>
<tr>
<td>31105-1</td>
<td>Left Turn</td>
<td>25&quot;</td>
<td>19&quot;</td>
<td>2&quot;</td>
<td>17 lbs.</td>
<td>1.25&quot;</td>
</tr>
<tr>
<td>31112-1*</td>
<td>T-Section</td>
<td>38&quot;</td>
<td>38&quot;</td>
<td>2&quot;</td>
<td>42 lbs.</td>
<td>1.25&quot;</td>
</tr>
<tr>
<td>31100-1</td>
<td>Linear</td>
<td>36&quot;</td>
<td>20&quot;</td>
<td>3&quot;</td>
<td>34 lbs.</td>
<td>2.25&quot;</td>
</tr>
<tr>
<td>31103-1</td>
<td>End Cap Set</td>
<td>6&quot;</td>
<td>20&quot;</td>
<td>3&quot;</td>
<td>19 lbs.</td>
<td>2.25&quot;</td>
</tr>
<tr>
<td>31102-1</td>
<td>Right Turn</td>
<td>25&quot;</td>
<td>20&quot;</td>
<td>3&quot;</td>
<td>23 lbs.</td>
<td>2.25&quot;</td>
</tr>
<tr>
<td>31101-1</td>
<td>Left Turn</td>
<td>25&quot;</td>
<td>20&quot;</td>
<td>3&quot;</td>
<td>23 lbs.</td>
<td>2.25&quot;</td>
</tr>
</tbody>
</table>

* Yellow Jacket has all female connectors.

**Black Jacket™ Light Duty Cable Protector**

Load bearing capacity of 10,000 lbs. per axle. Not compatible with Yellow Jacket Connectors. Compatible with other manufacturers.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>WEIGHT</th>
<th>SLOT SIZE</th>
<th># OF SLOTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>31108-1</td>
<td>Linear</td>
<td>36&quot;</td>
<td>19&quot;</td>
<td>2&quot;</td>
<td>22 lbs.</td>
<td>1.25&quot;</td>
<td>5</td>
</tr>
<tr>
<td>31109-1</td>
<td>End Cap Set</td>
<td>6&quot;</td>
<td>19&quot;</td>
<td>2&quot;</td>
<td>7 lbs.</td>
<td>1.25&quot;</td>
<td>5</td>
</tr>
<tr>
<td>31110-1</td>
<td>“Y” for Left &amp; Right Turns</td>
<td>22&quot;</td>
<td>22&quot;</td>
<td>2&quot;</td>
<td>13 lbs.</td>
<td>1.25&quot;</td>
<td>5</td>
</tr>
<tr>
<td>31113-1*</td>
<td>T-Section</td>
<td>17.5&quot;</td>
<td>17.5&quot;</td>
<td>2&quot;</td>
<td>13 lbs.</td>
<td>1.25&quot;</td>
<td>5</td>
</tr>
</tbody>
</table>

* Black Jacket has one female connector and three male connectors.
Definitions & Standards

**GFCI**
A Ground Fault Circuit Interrupter is an LC PD specifically intended for the protection of people from shock hazard. A GFCI is a device that will immediately stop the flow of electricity if it senses any voltage loss, whether the loss is through the ground wire or to your body.

**ELCI**
Equipment Leakage Circuit Interrupters are a class of LC PD not considered to be “people protectors,” and are generally only intended for equipment protection. ELCIs are virtually identical with ALCIs with the exception that the trip level is set higher than 6mA.

**ALCI**
Appliance Leakage Current Interrupters are a class of leakage current protection devices closely related to GFCIs. In fact, they share the same limits for trip level and response time. The main difference is that ALCIs are intended for use only in circuits with a solidly grounded neutral conductor.

**LCDI**
Leakage Current Detection Interrupter cord sets are intended to sense leakage currents flowing between or from conductors of the cord set and interrupt the circuit.

**AFCI**
Arc Fault Circuit Interrupters are designed to mitigate the affect of electrical arcs. Defined by UL 1699 they can be provided as circuit breakers, outlet devices, combination devices, adapters and cord sets. The AFCI must differentiate a normal arc (i.e., power tool, light switch, etc.) from a bad arc (i.e., a parallel fault in the wiring). To avoid nuisance tripping, the trip levels are quite higher and time longer than GFCIs, ALCIs or LCDIs. A cord type AFCI's maximum trip level is 75A for parallel fault and 5A for a series fault, both of which could be a fire in progress.

**PRCD**
Portable Residual Current Devices are designed for use in international applications and intended to protect people from electrical shock by interrupting the electrical circuit to a load when a fault current exceeds its rated trip level. They are compliant with IEC and NEMA standards, depending upon your country of use, and are available in 120V to 230V versions with 6-30mA trip levels.

**UL Standards**
UL Listed products are used in applications where the product is not an integral part of the manufactured system. UL Listed wire and cable products are intended for use within residential, commercial or industrial buildings.

**OSHA Regulations**
OSHA's scope of regulation covers three major business areas; the Construction Industry, the Maritime Industry and a third category, General Industry, which covers most other business enterprises except for those in mining and agriculture which are overseen by other government agencies. OSHA's regulations are Federal Law and are contained in the U.S. Government's Code of Federal Regulations (CFR). Violations of OSHA regulations can subject companies to legal action and fines.

**NEC (National Electrical Code) Standards**
The National Electrical Code (NEC®) requires use of listed products to meet the requirements of various “Articles” within the code.
OSHA Regulations

Ground Fault Protection

29CFR1910.304(b)(3)(ii)(A) All 125-volt, single-phase, 15-, 20-, and 30-ampere receptacle outlets that are not part of the permanent wiring of the building or structure and that are in use by personnel shall have ground-fault circuit-interrupter protection for personnel.

Note 1 to paragraph (b)(3)(ii)(A) of this section: A cord connector on an extension cord set is considered to be a receptacle outlet if the cord set is used for temporary electric power.

Note 2 to paragraph (b)(3)(ii)(A) of this section: Cord sets and devices incorporating the required ground-fault circuit-interrupter that are connected to the receptacle closest to the source of power are acceptable forms of protection.

29CFR1910.304(b)(3)(ii)(B) Receptacles other than 125-volt, single-phase, 15-, 20-, and 30-ampere receptacles that are not part of the permanent wiring of the building or structure and that are in use by personnel shall have ground-fault circuit-interrupter protection for personnel.

29CFR1910.304(b)(3)(ii)(C) Where the ground-fault circuit-interrupter protection required by paragraph (b)(3)(ii)(B) of this section is not available for receptacles other than 125-volt, single-phase, 15-, 20-, and 30-ampere, the employer shall establish and implement an assured equipment grounding conductor program covering cord sets, receptacles that are not a part of the building or structure, and equipment connected by cord and plug that are available for use or used by employees on those receptacles. This program shall comply with the following requirements (2 pages...)

1926.404(b)(ii) Ground-fault circuit interrupters. All 120-volt, single-phase, 15- and 20-ampere receptacle outlets on construction sites, which are not a part of the permanent wiring of the building or structure and which are in use by employees, shall have approved ground-fault circuit interrupters for personnel protection.

Receptacles on a two-wire, single-phase portable or vehicle-mounted generator rated not more than 5kW, where the circuit conductors of the generator are insulated from the generator frame and all other grounded surfaces, need not be protected with ground-fault circuit interrupters.

Cord Protection

29CFR1910.304(b)(1) Examination. Electric equipment shall be free from recognized hazards that are likely to cause death or serious physical harm to employees. Safety of equipment shall be determined using the following considerations:

(viii) Other factors that contribute to the practical safeguarding of persons using or likely to come in contact with the equipment.

(7) Mechanical execution of work. Electric equipment shall be installed in a neat and workmanlike manner.

29CFR1910.305(a)(2)(x) Flexible cords and cables shall be protected from accidental damage, as might be caused, for example, by sharp corners, projections, and doorways or other pinch points.

29CFR1910.305(a)(2)(xi) Cable assemblies and flexible cords and cables shall be supported in place at intervals that ensure that they will be protected from physical damage. Support shall be in the form of staples, cables ties, straps, or similar type fittings installed so as not to cause damage.

1926.403 (b)(1) the employer shall ensure that electrical equipment is free from recognized hazards that are likely to cause death or serious physical harm to employees. Safety equipment shall be determined on the basis of the following considerations:

(vii) Other factors which contribute to the practical safeguarding of employees using or likely to come in contact with the equipment.

29CFR1926.405(e)(2)(ii)(B) Branch circuits shall originate in a power outlet or panelboard. Conductors shall be run as multiconductor cord or cable assemblies or open conductors, or shall be run in raceways. All conductors shall be protected by overcurrent devices at their ampacity. Runs of open conductors shall be located where the conductors will not be subject to physical damage, and the conductors shall be fastened at intervals not exceeding 10 feet (3.05 m). No branch-circuit conductors shall be laid on the floor. Each branch circuit that supplies receptacles or fixed equipment shall contain a separate equipment grounding conductor if the branch circuit is run as open conductors.

29CFR1926.416(e)(1) Worn or frayed electric cords or cables shall not be used.
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