Cable Cleats For Short Circuit Protection
Available in a variety of sizes, Panduit’s extensive line of cable cleat solutions ensures cables remain contained in the event of a short circuit fault, minimizing disruption and damage to personnel and property. Panduit’s Cable Cleats are uniquely engineered for ease of installation in a range of applications and harsh environments. With a variety of cable cleats, Panduit has the right product to fit your needs while providing on the job productivity, reliability and safety.

REDUCE PROJECT COSTS AND REDUCE INSTALLATION TIME

- Simple and intuitive design leads to increased productivity
- Tested to IEC 61914:2015, the latest and most globally recognized cable cleat testing standard
- Compatible with a variety of ladder racks and cables
- Collaborative and consultative approach to cable cleat specification, supported by a team
- Industry-unique mounting brackets and installation tool
- Applications: Oil and Gas, Petrochemical, Shipbuilding, Rail, Utilities and Data Centers

IEC 61914:2015 is the latest, most comprehensive and globally accepted cable cleat testing standard. It provides requirements for:

- Temperature rating
- Adequate resistance to flame propagation
- Lateral load testing
- Axial load testing
- Impact resistance
- UV resistance
- Resistance to electromechanical forces
- Corrosion resistance

- During a short circuit fault, maximum electromechanical stress between conductors occurs at or before 0.005 second
- Typical circuit breakers and other protection devices trip and interrupt a fault between 0.06 to 0.1 second
- Cable cleats perform their function within these first 0.005 second (p.e. at peak kA) before a circuit breaker trips and interrupts a fault

...the NEC 392.20(C) doesn’t specify how to protect against excessive cable movement due short circuit, however IEC 61914:2015 provides testing methodology to ensure compliance to the NEC requirements.

DID YOU KNOW?

During a short circuit fault, maximum electromechanical stress between conductors occurs at or before 0.005 second
Selecting the right Cable Cleat has never been so easy

Prevent damages resulting from a short circuit fault by specifying and installing Panduit Cable Cleats

**SELECT** cable layout.
**INPUT** peak short circuit current
**INPUT** cable diameter


Cleat kAlculator™ is available for download in the Apple Store or Google Play, and Panduit.com/cablecleat.

Panduit Research & Development has created a state-of-the-art ANSYS award-winning program that simulates the material composition of our cable cleats and the electromechanical forces present in a short circuit fault, preparing our cable cleats for testing to IEC 61914:2015.

The cleats are then subjected to a live short circuit fault at a testing laboratory to validate compliance with this standard. The simulation program is a powerful tool that helps us select the most appropriate materials for our cleats, so they perform to their tested kA rating during a short circuit fault.
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CABLE LAYOUT LEGEND
Flat | Trefoil | Quad | Multicore

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### PANDUIT CLEAT OVERVIEW

**Product** | **Trefoil Cleat** | **Buckle Strap Cleat** | **Locking Strap Cleat** | **Trefoil Cleat** | **Two-Hole Cleat** | **One-Hole Cleat**
--- | --- | --- | --- | --- | --- | ---
**Material** | Stainless Steel | Stainless Steel | Stainless Steel | Aluminum | Aluminum | Aluminum
**Parts** | 12 Parts | 5 Parts | 3 Parts | 6 Parts | 7 Parts | 10 Parts
**Diameter Ranges**
- 20 - 25 mm
- 23 - 28 mm
- 26 - 32 mm
- 29 - 35 mm
- 34 - 40 mm
- 38 - 44 mm
- 42 - 48 mm
- 46 - 52 mm
- 45 - 50 mm
- 47 - 52 mm
- 50 - 60 mm
- 60 - 80 mm
- 100 - 120 mm
- 120 - 150 mm
- 150 - 170 mm
- 50 - 60 mm
- 60 - 80 mm
- 100 - 120 mm
- 120 - 150 mm
- 150 - 170 mm
- 80 - 110 mm
- 90 - 120 mm
- 100 - 140 mm
- 125 - 150 mm
- 150 - 180 mm
- 180 - 210 mm
- 210 - 240 mm
- 240 - 270 mm
- 270 - 300 mm

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CUSTOM CLEAT SOLUTIONS AVAILABLE

For global engineered custom solutions and technical support, reach out to your local Panduit Sales Representative.

To learn more visit: www.panduit.com/cablecleat
The Stainless Steel Trefoil Cable Cleat offers protection against extreme environments and high short circuit current faults. It is made of 316L stainless steel, available in multiple sizes with cable range taking capability, and suitable for trefoil cable arrangements.

The cleat can be installed after running cable using a Panduit mounting bracket or before running cable by installing direct to the cable tray rung through a fixing hole using an M8 bolt.

### Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>H (mm)</th>
<th>W (mm)</th>
<th>D (mm)</th>
<th>Lb.</th>
<th>g</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCSSTR2025-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 20 - 25 mm.</td>
<td>0.79 - 0.98</td>
<td>20 - 25</td>
<td>3.43</td>
<td>87</td>
<td>3.39</td>
<td>86</td>
</tr>
<tr>
<td>CCSSTR2328-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 23 - 28 mm.</td>
<td>0.91 - 1.10</td>
<td>23 - 28</td>
<td>3.58</td>
<td>91</td>
<td>3.54</td>
<td>90</td>
</tr>
<tr>
<td>CCSSTR2632-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 26 - 32 mm.</td>
<td>1.02 - 1.26</td>
<td>26 - 32</td>
<td>3.74</td>
<td>95</td>
<td>3.82</td>
<td>97</td>
</tr>
<tr>
<td>CCSSTR3036-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 30 - 36 mm.</td>
<td>1.18 - 1.42</td>
<td>30 - 36</td>
<td>3.94</td>
<td>100</td>
<td>4.13</td>
<td>105</td>
</tr>
<tr>
<td>CCSSTR3440-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 34 - 40 mm.</td>
<td>1.34 - 1.58</td>
<td>34 - 40</td>
<td>4.25</td>
<td>108</td>
<td>4.37</td>
<td>111</td>
</tr>
<tr>
<td>CCSSTR3844-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 38 - 44 mm.</td>
<td>1.50 - 1.73</td>
<td>38 - 44</td>
<td>4.25</td>
<td>108</td>
<td>4.69</td>
<td>119</td>
</tr>
<tr>
<td>CCSSTR4248-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 42 - 48 mm.</td>
<td>1.65 - 1.89</td>
<td>42 - 48</td>
<td>4.41</td>
<td>112</td>
<td>4.96</td>
<td>126</td>
</tr>
<tr>
<td>CCSSTR4652-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 46 - 52 mm.</td>
<td>1.81 - 2.05</td>
<td>46 - 52</td>
<td>4.61</td>
<td>117</td>
<td>5.24</td>
<td>133</td>
</tr>
<tr>
<td>CCSSTR5057-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 50 - 57 mm.</td>
<td>1.97 - 2.24</td>
<td>50 - 57</td>
<td>4.84</td>
<td>123</td>
<td>5.63</td>
<td>143</td>
</tr>
<tr>
<td>CCSSTR5461-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 54 - 61 mm.</td>
<td>2.13 - 2.40</td>
<td>54 - 61</td>
<td>5.12</td>
<td>130</td>
<td>5.91</td>
<td>150</td>
</tr>
<tr>
<td>CCSSTR5865-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 58 - 65 mm.</td>
<td>2.28 - 2.56</td>
<td>58 - 65</td>
<td>5.43</td>
<td>138</td>
<td>6.18</td>
<td>157</td>
</tr>
<tr>
<td>CCSSTR6269-X</td>
<td>Cable cleat, stainless steel, trefoil configuration with a cable diameter of 62 - 69 mm.</td>
<td>2.44 - 2.72</td>
<td>62 - 69</td>
<td>5.71</td>
<td>145</td>
<td>6.50</td>
<td>165</td>
</tr>
</tbody>
</table>

### Short Circuit Testing Summary

<table>
<thead>
<tr>
<th>Trefoil Formation</th>
<th>Cable Diameter</th>
<th>One Short Circuit Event</th>
<th>Two Short Circuit Events</th>
<th>One Short Circuit Event</th>
<th>Two Short Circuit Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 mm Cable Diameter</td>
<td>0.1 sec</td>
<td>172 kA Peak</td>
<td>8926 lbs force (39.77 kN)</td>
<td>0.1 sec</td>
<td>167 kA Peak</td>
</tr>
<tr>
<td>36 mm Cable Diameter</td>
<td>0.1 sec</td>
<td>143 kA Peak</td>
<td>13398 lbs force (59.5 kN)</td>
<td>0.1 sec</td>
<td>125 kA Peak</td>
</tr>
</tbody>
</table>

*Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.*
The Stainless Steel Buckle Strap Cleat is an effective option for protecting against high short circuit fault current requirements in harsh environments. The strap is made of 316L stainless steel, has inherent cable range-taking, and is compatible with quad, trefoil, and multicore cables.

The cleat is installed after running the cable via a unique industry mounting bracket. It is tensioned and cut using a manually-operated, ratchet-style installation tool or a tension screw drive installation tool. The straps have rounded edges to protect from damaging the cable and are often used in combination with a cushion sleeve inserted between the strap and cable for added protection.

### Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Trefoil Double Loop Cable Diameter Range</th>
<th>Trefoil Triple Loop Cable Diameter Range</th>
<th>Flat Multiconductor Double Loop Cable Diameter Range</th>
<th>Width</th>
<th>Thickness</th>
<th>Length</th>
<th>Std. Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS9W/75T30-Q6</td>
<td>Stainless steel buckle strap cleat</td>
<td>0.472 - 1.024</td>
<td>0.787 - 1.024</td>
<td>1.024 - 1.378</td>
<td>7254 lbs force (32.3 kN)</td>
<td>10391 lbs force (46.2 kN)</td>
<td>6960 lbs force (31.0 kN)</td>
<td>6960 lbs force (31.0 kN)</td>
</tr>
<tr>
<td>MS9W/75T30-Q6</td>
<td>Stainless steel buckle strap cleat</td>
<td>1.024 - 1.378</td>
<td>1.378 - 1.732</td>
<td>1.732 - 2.087</td>
<td>10391 lbs force (46.2 kN)</td>
<td>10391 lbs force (46.2 kN)</td>
<td>6960 lbs force (31.0 kN)</td>
<td>6960 lbs force (31.0 kN)</td>
</tr>
</tbody>
</table>

### Short Circuit Testing Summary

1. **MS9W/75T30-Q6 Double Loop Product**
   - One Short Circuit Event (Clause 6.4.4): 300 mm spacing
   - Two Short Circuit Events (Clause 6.4.5): 300 mm spacing
   - 153 kA: 142 kA: 109 kA: 109 kA
   - 7254 lbs force (32.3 kN): 6084 lbs force (27.1 kN): 6960 lbs force (31.0 kN): 6960 lbs force (31.0 kN)

2. **MS9W/75T30-Q6 Triple Loop Product**
   - One Short Circuit Event (Clause 6.4.4): 300 mm spacing
   - Two Short Circuit Events (Clause 6.4.5): 300 mm spacing
   - 188 kA: 188 kA
   - 10391 lbs force (46.2 kN): 10391 lbs force (46.2 kN)

3. Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.

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**Buckle Design**

- Provides low finished profile
- Smooth surfaces and rounded edges reduce risk of cable insulation damage
- Compatible with a variety of cable trays and cables
The Stainless Steel Locking Strap Cleat is an effective option for protecting against lower to medium short circuit fault current requirements in harsh environments. The strap is made of 316L stainless steel, has inherent cable range-taking, and is compatible with quad, trefoil, and multicore cables. The cleat is installed after running the cable via a unique in the industry mounting bracket. It is tensioned and cut using a battery-operated, electromechanical or cable tie cut off eliminates exposed sharp edges.

Cable tie cut off eliminates exposed sharp edges
Self-locking head for high-retained tenacity
Smooth surfaces and rounded edges reduce risk of cable insulation damage

Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>Width (In.)</th>
<th>Thickness (In.)</th>
<th>Length (In.)</th>
<th>Shear Pkg. (Lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT4DH-L316</td>
<td>Stainless steel locking strap cleat</td>
<td>2.283-3.937 mm</td>
<td>2.7 mm</td>
<td>0.010</td>
<td>8.4 in.</td>
<td>1702</td>
</tr>
<tr>
<td>MLT4DEH15-Q316</td>
<td>Stainless steel locking strap cleat</td>
<td>2.835-4.724 mm</td>
<td>3.3 mm</td>
<td>0.015</td>
<td>10.4 in.</td>
<td>2145</td>
</tr>
<tr>
<td>MLT5DH-L316</td>
<td>Stainless steel locking strap cleat</td>
<td>3.740-5.906 mm</td>
<td>3.8 mm</td>
<td>0.015</td>
<td>12.7 in.</td>
<td>2545</td>
</tr>
<tr>
<td>MLT6DEH15-Q316</td>
<td>Stainless steel locking strap cleat</td>
<td>4.724-7.677 mm</td>
<td>4.4 mm</td>
<td>0.015</td>
<td>15.7 in.</td>
<td>2956</td>
</tr>
<tr>
<td>MLT8DEH15-Q316</td>
<td>Stainless steel locking strap cleat</td>
<td>7.677-11.377 mm</td>
<td>5.0 mm</td>
<td>0.015</td>
<td>18.9 in.</td>
<td>3365</td>
</tr>
</tbody>
</table>

Short Circuit Testing Summary

- One Short Circuit Event
  - Cable Diameter: 39 mm
  - Trefoil Formation
  - Peak Short Circuit Current: 925 A
  - Peak Force: 648 lbf (2.88 kN)

- Two Short Circuit Events
  - Cable Diameter: 39 mm
  - Trefoil Formation
  - Peak Short Circuit Current: 1057 A
  - Peak Force: 749 lbf (3.33 kN)

- One Short Circuit Event
  - Cable Diameter: 47.0 A
  - Trefoil Double Loop Cable Diameter Range: 2.283-3.740 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.010
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 56.1

- One Short Circuit Event
  - Cable Diameter: 56.1 A
  - Trefoil Double Loop Cable Diameter Range: 2.835-3.740 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 649

- One Short Circuit Event
  - Cable Diameter: 72.0 A
  - Trefoil Double Loop Cable Diameter Range: 3.740-4.724 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 1166

- One Short Circuit Event
  - Cable Diameter: 72.0 A
  - Trefoil Double Loop Cable Diameter Range: 4.724-5.906 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 1388

- Two Short Circuit Events
  - Cable Diameter: 72.0 A
  - Trefoil Double Loop Cable Diameter Range: 5.906-7.677 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 1902

- One Short Circuit Event
  - Cable Diameter: 72.0 A
  - Trefoil Double Loop Cable Diameter Range: 7.677-9.222 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 2145

- One Short Circuit Event
  - Cable Diameter: 92.2 A
  - Trefoil Double Loop Cable Diameter Range: 9.222-11.377 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 2545

- One Short Circuit Event
  - Cable Diameter: 104.7 A
  - Trefoil Double Loop Cable Diameter Range: 11.377-14.013 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 2956

- Two Short Circuit Events
  - Cable Diameter: 104.7 A
  - Trefoil Double Loop Cable Diameter Range: 14.013-17.120 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 3365

- Two Short Circuit Events
  - Cable Diameter: 170.2 A
  - Trefoil Double Loop Cable Diameter Range: 21.433-25.400 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 4706

- Two Short Circuit Events
  - Cable Diameter: 214.5 A
  - Trefoil Double Loop Cable Diameter Range: 25.400-30.480 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 5612

- Two Short Circuit Events
  - Cable Diameter: 254.5 A
  - Trefoil Double Loop Cable Diameter Range: 30.480-35.560 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 6480

- Two Short Circuit Events
  - Cable Diameter: 336.5 A
  - Trefoil Double Loop Cable Diameter Range: 35.560-40.640 mm
  - Width (In.): 1.5
  - Thickness (In.): 0.015
  - Length (In.): 41.4
  - Shear Pkg. (Lb): 7489

Stiff compliance to IEC 61914:2015 allowing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.
The manually-operated BT2HT and BT75SDT tools are used to install Panduit’s Buckle Strap Cleats. The BT2HT is a ratchet-style installation tool, allowing for high tension with minimal effort. The BT75SDT tenses the strap using a screw drive mechanism, providing high tension while reducing operator fatigue.

Both tools use a lever to cut the strap so there is an appropriate length remaining to fold over and secure with the buckle tab. A side entry slot allows for easy strap insertion, streamlining installation. The BT2HT is more suitable for higher volume installations, and the BT75SDT for lower volume.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
<th>Width</th>
<th>Used With</th>
<th>Std Pkg</th>
<th>Qty In.</th>
<th>mm</th>
<th>Qty mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT2HTI</td>
<td>Installation tool for use with MS75 buckles.</td>
<td>6.94 176</td>
<td>7.64 194</td>
<td>Stainless Steel Buckle Strap Cleat</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BT75SDT</td>
<td>Screw drive tension mechanism provides high tension with minimal effort, reducing operator fatigue. Heavy-duty design offers a long service life. Strapping side entry allows quick side entry and easy strap insertion.</td>
<td>381 9.622</td>
<td></td>
<td>Stainless Steel Buckle Strap Cleat</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The battery-operated PBTMT and manually-operated, ratchet-style RT2HT tools are used to install Panduit’s Locking Strap Cleats. Both tools tension the strap through its locking head using a gripping tooth mechanism and then cut the end flush, eliminating any sharp edges. A side entry slot allows for easy strap insertion, streamlining installation. The PBTMT is more suitable for higher volume installations, and the RT2HT for lower volume.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
<th>Width</th>
<th>Used With</th>
<th>Std Pkg</th>
<th>Qty In.</th>
<th>mm</th>
<th>Qty mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBTMT/E</td>
<td>Battery powered installation tool, for use with Super Heavy Cross Section Steel MLT Ties, MLTD Double Wrapped Style Ties, and MTS/Heavy Cross Section Steel Ties, 2 – 12 volt lithium-ion batteries and 115 volt, 60 Hz charger included.</td>
<td>10.33 262.4</td>
<td>3.17 80.5</td>
<td>Stainless Steel Locking Strap Cleat</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RT2HT</td>
<td>Hand Operated Tool for use with Extra Heavy and Super Heavy Cross Section Steel MTS Type Ties.</td>
<td>7.1 180</td>
<td>3.09 80</td>
<td>Stainless Steel Locking Strap Cleat</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mounting Brackets for Easy Installation and Labor Savings

Install cable cleats after the cable is pulled with Panduit mounting brackets that affix to the cable tray and cleat after the cable is run in the tray.

CBH Series Brackets are compatible with the CCSSTR Series Stainless Steel Trefoil Cleats and CCALTR Series Aluminum Trefoil Cleats.

UC Series Brackets work in concert with Panduill’s unique MLT Series Locking Strap Cleats and MS75 Series Buckle Strap Cleats.

No loose pieces eliminates lost parts.

Capture slot for swing bolt provides added security

Peened nut prevents it from backing out completely off the screw

Easy-to-use swing bolt assembly

Available in 100 ft. (30.5 m) rolls

TPE low-smoke, halogen-free, and flame-resistant

*Available in 316L stainless steel and galvanized steel.

For use with Stainless Steel Locking Strap Cleat

For use with Stainless Steel Buckle Strap Cleat

For use with Stainless Steel Trefoil Cleats

For use with Stainless Steel Trefoil Cleats

For use with Stainless Steel Trefoil Cleats

Available in 315 ft. (96.5 m) rolls

Part Number Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Std. Pkg.</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCSQ1-VC</td>
<td>Mounting bracket - Strut Type, galvanized steel.</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>UCRND1-VC</td>
<td>Mounting bracket - Round, galvanized steel.</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>UCIB1-VC</td>
<td>Mounting bracket - I-Beam, galvanized steel.</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>UCTH1-VC</td>
<td>Mounting bracket - Top Hat, galvanized steel.</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>UCFG1-V316</td>
<td>Mounting bracket - Use with composite fiberglass cable trays, 316L stainless steel.</td>
<td>100</td>
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</tr>
<tr>
<td>UCSQ1-V316</td>
<td>Mounting bracket - Strut Type, 316L stainless steel.</td>
<td>5</td>
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<tr>
<td>UCRND1-V316</td>
<td>Mounting bracket - Round, 316L stainless steel.</td>
<td>5</td>
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<tr>
<td>UCIB1-V316</td>
<td>Mounting bracket - I-Beam, 316L stainless steel.</td>
<td>5</td>
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<tr>
<td>UCTH1-V316</td>
<td>Mounting bracket - Top Hat, 316L stainless steel.</td>
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</table>

Part Number Description

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCSLSH-B-CR</td>
<td>Cushion sleeving used with locking strap cleats</td>
<td>100 ft. (30.5 m) reel</td>
</tr>
</tbody>
</table>

Download PDF spec download at www.panduit.com/pdfstrat
## ALUMINUM TREFOIL CLEAT

The Aluminum Trefoil Cable Cleat is ideal for medium-high short circuit faults in less corrosive environments. It is available in multiple sizes with cable range-taking capability and is suitable for trefoil cable arrangements.

The cleat can be installed after running cable via a unique in the industry mounting bracket or before running cable through it by installing directly to the cable tray rung via a fixing hole and M8 bolt. Insulating spacers and washers are available to protect against galvanic corrosion between dissimilar cable tray rung and cable cleat materials.

### Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>H</th>
<th>W</th>
<th>D</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCALTR2326-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 23 - 26 mm.</td>
<td>0.91 - 1.02</td>
<td>23</td>
<td>3.92</td>
<td>101</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR2528-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 25 - 28 mm.</td>
<td>0.98 - 1.10</td>
<td>25</td>
<td>4.06</td>
<td>103</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR2730-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 27 - 30 mm.</td>
<td>1.06 - 1.18</td>
<td>27</td>
<td>4.19</td>
<td>107</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR2932-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 29 - 32 mm.</td>
<td>1.14 - 1.26</td>
<td>29</td>
<td>4.33</td>
<td>110</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR3135-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 31 - 35 mm.</td>
<td>1.22 - 1.38</td>
<td>31</td>
<td>4.55</td>
<td>116</td>
<td>2.17</td>
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<tr>
<td>CCALTR3438-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 34 - 38 mm.</td>
<td>1.34 - 1.50</td>
<td>34</td>
<td>4.77</td>
<td>121</td>
<td>2.17</td>
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<tr>
<td>CCALTR3741-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 37 - 41 mm.</td>
<td>1.46 - 1.61</td>
<td>37</td>
<td>4.99</td>
<td>127</td>
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<tr>
<td>CCALTR4044-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 40 - 44 mm.</td>
<td>1.57 - 1.73</td>
<td>40</td>
<td>5.24</td>
<td>133</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR4347-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 43 - 47 mm.</td>
<td>1.69 - 1.85</td>
<td>43</td>
<td>5.52</td>
<td>140</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR4651-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 46 - 51 mm.</td>
<td>1.81 - 2.01</td>
<td>46</td>
<td>5.83</td>
<td>148</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR5056-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 50 - 56 mm.</td>
<td>1.97 - 2.20</td>
<td>50</td>
<td>6.20</td>
<td>158</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR5561-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 55 - 61 mm.</td>
<td>2.17 - 2.40</td>
<td>55</td>
<td>6.57</td>
<td>167</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR6067-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 60 - 67 mm.</td>
<td>2.36 - 2.64</td>
<td>60</td>
<td>7.01</td>
<td>178</td>
<td>2.17</td>
</tr>
<tr>
<td>CCALTR6675-X</td>
<td>Cable cleat, aluminum, trefoil configuration with a cable diameter of 66 - 75 mm.</td>
<td>2.60 - 2.95</td>
<td>66</td>
<td>7.93</td>
<td>193</td>
<td>2.17</td>
</tr>
</tbody>
</table>

*One Short Circuit Event (Clause 6.4.4) 300 mm spacing
*Two Short Circuit Events (Clause 6.4.5) 300 mm spacing
*One Short Circuit Event (Clause 6.4.4) 600 mm spacing
*Two Short Circuit Events (Clause 6.4.5) 600 mm spacing

**Short Circuit Testing Summary**

1. **Trefoil Formation**
   - **38 kA**
   - **60 kA**

2. **20 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

3. **30 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

4. **40 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

5. **50 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

6. **60 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

7. **70 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

8. **80 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

9. **90 mm Cable Diameter**
   - **One Short Circuit Event** (Clause 6.4.4)
   - **Two Short Circuit Events** (Clause 6.4.5)

10. **100 mm Cable Diameter**
    - **One Short Circuit Event** (Clause 6.4.4)
    - **Two Short Circuit Events** (Clause 6.4.5)

<table>
<thead>
<tr>
<th>Test Number</th>
<th>Test Description</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCALTR2326-X</td>
<td>0.91 - 1.02</td>
<td>23 - 26</td>
</tr>
<tr>
<td>CCALTR2528-X</td>
<td>0.98 - 1.10</td>
<td>25 - 28</td>
</tr>
<tr>
<td>CCALTR2730-X</td>
<td>1.06 - 1.18</td>
<td>27 - 30</td>
</tr>
<tr>
<td>CCALTR2932-X</td>
<td>1.14 - 1.26</td>
<td>29 - 32</td>
</tr>
<tr>
<td>CCALTR3135-X</td>
<td>1.22 - 1.38</td>
<td>31 - 34</td>
</tr>
<tr>
<td>CCALTR3438-X</td>
<td>1.34 - 1.50</td>
<td>34 - 36</td>
</tr>
<tr>
<td>CCALTR3741-X</td>
<td>1.46 - 1.61</td>
<td>37 - 39</td>
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<tr>
<td>CCALTR4044-X</td>
<td>1.57 - 1.73</td>
<td>40 - 42</td>
</tr>
<tr>
<td>CCALTR4347-X</td>
<td>1.69 - 1.85</td>
<td>43 - 45</td>
</tr>
<tr>
<td>CCALTR4651-X</td>
<td>1.81 - 2.01</td>
<td>46 - 48</td>
</tr>
<tr>
<td>CCALTR5056-X</td>
<td>1.97 - 2.20</td>
<td>50 - 52</td>
</tr>
<tr>
<td>CCALTR5561-X</td>
<td>2.17 - 2.40</td>
<td>55 - 57</td>
</tr>
<tr>
<td>CCALTR6067-X</td>
<td>2.36 - 2.64</td>
<td>60 - 62</td>
</tr>
<tr>
<td>CCALTR6675-X</td>
<td>2.60 - 2.95</td>
<td>66 - 68</td>
</tr>
<tr>
<td>CCALTR7080-X</td>
<td>2.95 - 3.20</td>
<td>70 - 72</td>
</tr>
</tbody>
</table>

Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.

1. **114 kA**
2. **109 kA**
3. **94.6 kA**
4. **94.6 kA**
5. **3921 lbs force (17.4 kN)**
6. **3585 lbs force (15.9 kN)**
7. **5401 lbs force (24.0 kN)**
8. **5401 lbs force (24.0 kN)**

For more information, visit www.panduit.com/cablecleat
The Aluminum Two-Hole Cleat is ideal for medium-high short circuit faults in less corrosive environments. It is available in multiple sizes with cable range-taking capability and is suitable for single conductor cables.

The cleat is installed after running cable by installing direct to the cable tray rung via fixing holes and two M10 bolts. Insulating spacers and washers are available to protect against galvanic corrosion in case of dissimilar cable tray rung and cable cleat materials.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>H (in)</th>
<th>W (in)</th>
<th>D (in)</th>
<th>F (inch)</th>
<th>Weight (lb)</th>
<th>Mounting Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCAL2H3846-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 38 - 46 mm.</td>
<td>1.50 - 1.81</td>
<td>2.01</td>
<td>51</td>
<td>1.64</td>
<td>42</td>
<td>2.81</td>
<td>74</td>
</tr>
<tr>
<td>CCAL2H4658-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 46 - 58 mm.</td>
<td>1.81 - 2.28</td>
<td>2.36</td>
<td>60</td>
<td>1.98</td>
<td>54</td>
<td>2.87</td>
<td>74</td>
</tr>
<tr>
<td>CCAL2H5870-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 58 - 70 mm.</td>
<td>2.28 - 2.76</td>
<td>2.87</td>
<td>74</td>
<td>1.75</td>
<td>45</td>
<td>3.56</td>
<td>91</td>
</tr>
<tr>
<td>CCAL2H7083-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 70 - 83 mm.</td>
<td>2.76 - 3.27</td>
<td>3.39</td>
<td>86</td>
<td>1.91</td>
<td>50</td>
<td>4.47</td>
<td>115</td>
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<tr>
<td>CCAL2H8397-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 83 - 97 mm.</td>
<td>3.27 - 3.82</td>
<td>3.94</td>
<td>100</td>
<td>1.97</td>
<td>50</td>
<td>5.06</td>
<td>129</td>
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<tr>
<td>CCAL2H97109-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 97 - 109 mm.</td>
<td>3.82 - 4.29</td>
<td>4.53</td>
<td>115</td>
<td>1.93</td>
<td>46</td>
<td>5.50</td>
<td>148</td>
</tr>
<tr>
<td>CCAL2H109120-X</td>
<td>Cable cleat, aluminum, two-hole configuration with a cable diameter of 109 - 120 mm.</td>
<td>4.29 - 4.72</td>
<td>5.11</td>
<td>130</td>
<td>2.06</td>
<td>50</td>
<td>6.08</td>
<td>163</td>
</tr>
</tbody>
</table>

**Rounded edges for cable protection**

**Tightening bolts can be installed from top or bottom**

**Flat Formation**

131 kA 131 kA

3748 lbs force (16.7 kN) 3748 lbs force (16.7 kN)

**Short Circuit Testing Summary**

- **Flat Formation 105 mm Cable Spacing (Clause 6.4.4 600 mm spacing)**
  - One Short Circuit Event: 151 kA
  - Two Short Circuit Events: 151 kA

- **Flat Formation 105 mm Cable Spacing (Clause 6.4.5 600 mm spacing)**
  - One Short Circuit Event: 151 kA
  - Two Short Circuit Events: 151 kA

Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.
# Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>H</th>
<th>W</th>
<th>D</th>
<th>E</th>
<th>S</th>
<th>Weight</th>
<th>Mounting Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCAL1H1013-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 10 - 13 mm.</td>
<td>0.39 - 0.51</td>
<td>10</td>
<td>10</td>
<td>22</td>
<td>1.99</td>
<td>0.69</td>
<td>12</td>
<td>M10</td>
</tr>
<tr>
<td>CCAL1H1316-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 13 - 16 mm.</td>
<td>0.51 - 0.63</td>
<td>13</td>
<td>13</td>
<td>26</td>
<td>2.04</td>
<td>0.83</td>
<td>14</td>
<td>M10</td>
</tr>
<tr>
<td>CCAL1H1619-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 16 - 19 mm.</td>
<td>0.63 - 0.75</td>
<td>16</td>
<td>16</td>
<td>29</td>
<td>2.08</td>
<td>0.93</td>
<td>16</td>
<td>M10</td>
</tr>
<tr>
<td>CCAL1H1923-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 19 - 23 mm.</td>
<td>0.75 - 0.91</td>
<td>19</td>
<td>19</td>
<td>32</td>
<td>2.12</td>
<td>1.03</td>
<td>18</td>
<td>M10</td>
</tr>
<tr>
<td>CCAL1H2327-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 23 - 27 mm.</td>
<td>0.91 - 1.06</td>
<td>23</td>
<td>23</td>
<td>36</td>
<td>2.28</td>
<td>1.13</td>
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<td>M10</td>
</tr>
<tr>
<td>CCAL1H2732-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 27 - 32 mm.</td>
<td>1.06 - 1.26</td>
<td>27</td>
<td>27</td>
<td>40</td>
<td>2.44</td>
<td>1.23</td>
<td>22</td>
<td>M10</td>
</tr>
<tr>
<td>CCAL1H3238-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 32 - 38 mm.</td>
<td>1.26 - 1.50</td>
<td>32</td>
<td>32</td>
<td>45</td>
<td>2.68</td>
<td>1.33</td>
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<td>M10</td>
</tr>
<tr>
<td>CCAL1H3846-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 38 - 46 mm.</td>
<td>1.50 - 1.81</td>
<td>38</td>
<td>38</td>
<td>51</td>
<td>2.98</td>
<td>1.44</td>
<td>28</td>
<td>M10</td>
</tr>
<tr>
<td>CCAL1H4651-X</td>
<td>Cable cleat, aluminum, one-hole configuration with a cable diameter of 46 - 51 mm.</td>
<td>1.81 - 2.01</td>
<td>46</td>
<td>46</td>
<td>57</td>
<td>3.25</td>
<td>1.54</td>
<td>31</td>
<td>M10</td>
</tr>
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</table>

## Short Circuit Testing Summary

<table>
<thead>
<tr>
<th>Test Conditions</th>
<th>Cable Diameter Range</th>
<th>1 Short Circuit Event (Clause 6.4.4 of IEC 61914)</th>
<th>2 Short Circuit Events (Clause 6.4.5 of IEC 61914)</th>
</tr>
</thead>
<tbody>
<tr>
<td>105 mm Cable Spacing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.4 x 4.8 (In.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.96 x 0.37 (In.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*All tests conducted in accordance with IEC 61914:2015 utilizing KEMA facility, independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) to electric power industries.*
The Polymer Trefoil Cleat is ideal for medium-high short circuit faults in less harsh environments. It is available in multiple sizes with cable range-taking capability and is suitable for trefoil cable arrangements.

The cleat is installed after running cable by installing direct to the cable tray rung via a fixing hole and M10 bolt.

### POLYMER TREFOIL CLEAT

**Rounded edges for cable protection**
**Ridges to hold cable in place**
**Corrosion resistant body**

#### Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>H</th>
<th>W</th>
<th>D</th>
<th>S</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCPLTR2228-X</td>
<td>Cable cleat, polymer, trefoil configuration with a cable diameter of 22 - 28 mm.</td>
<td>0.87 - 1.10</td>
<td>22 - 28</td>
<td>3.46</td>
<td>88</td>
<td>5.20</td>
<td>132</td>
</tr>
<tr>
<td>CCPLTR2633-X</td>
<td>Cable cleat, polymer, trefoil configuration with a cable diameter of 26 - 33 mm.</td>
<td>1.02 - 1.30</td>
<td>26 - 33</td>
<td>3.86</td>
<td>98</td>
<td>5.59</td>
<td>152</td>
</tr>
<tr>
<td>CCPLTR3139-X</td>
<td>Cable cleat, polymer, trefoil configuration with a cable diameter of 31 - 39 mm.</td>
<td>1.22 - 1.54</td>
<td>31 - 39</td>
<td>4.13</td>
<td>105</td>
<td>6.06</td>
<td>174</td>
</tr>
<tr>
<td>CCPLTR3745-X</td>
<td>Cable cleat, polymer, trefoil configuration with a cable diameter of 37 - 45 mm.</td>
<td>1.46 - 1.77</td>
<td>37 - 45</td>
<td>4.51</td>
<td>117</td>
<td>6.54</td>
<td>196</td>
</tr>
<tr>
<td>CCPLTR4352-X</td>
<td>Cable cleat, polymer, trefoil configuration with a cable diameter of 43 - 52 mm.</td>
<td>1.69 - 2.05</td>
<td>43 - 52</td>
<td>4.89</td>
<td>128</td>
<td>7.09</td>
<td>219</td>
</tr>
<tr>
<td>CCPLTR5060-X</td>
<td>Cable cleat, polymer, trefoil configuration with a cable diameter of 50 - 60 mm.</td>
<td>1.97 - 2.36</td>
<td>50 - 60</td>
<td>5.28</td>
<td>141</td>
<td>7.76</td>
<td>242</td>
</tr>
</tbody>
</table>

**Short Circuit Testing Summary**

<table>
<thead>
<tr>
<th>Trefoil Formation</th>
<th>Cable Diameter</th>
<th>W</th>
<th>D</th>
<th>S</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Short Circuit Event (Clause 6.4.4)</td>
<td>38 mm cable diameter</td>
<td>130 kA</td>
<td>120 kA</td>
<td>110 kA</td>
<td></td>
</tr>
<tr>
<td>Two Short Circuit Events (Clause 6.4.5)</td>
<td>38 mm cable diameter</td>
<td>525 A</td>
<td>500 A</td>
<td>500 A</td>
<td>630 A</td>
</tr>
<tr>
<td>Flat Formation</td>
<td>Cable Diameter</td>
<td>W</td>
<td>D</td>
<td>S</td>
<td>Weight</td>
</tr>
<tr>
<td>One Short Circuit Event (Clause 6.4.4)</td>
<td>38 mm cable diameter</td>
<td>7170 A</td>
<td>7170 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two Short Circuit Events (Clause 6.4.5)</td>
<td>38 mm cable diameter</td>
<td>7170 A</td>
<td>7170 A</td>
<td></td>
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</tr>
</tbody>
</table>

1. Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.
**POLYMER TWO-HOLE CLEAT**

The Polymer Two-Hole Cleat is ideal for lower to medium short circuit faults in less harsh environments. It is available in multiple sizes with cable range-taking capability and is suitable for single conductor cable arrangements.

The cleat is installed after running cable by installing direct to the cable tray rung via fixing holes and two M10 bolts.

---

**Technical Data**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range (mm)</th>
<th>H</th>
<th>W</th>
<th>D</th>
<th>P</th>
<th>Weight (lbs)</th>
<th>Mounting Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCPL2H3846-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 38 - 46 mm.</td>
<td>1.50 - 1.81</td>
<td>38 - 46</td>
<td>2.20</td>
<td>56</td>
<td>4.07</td>
<td>103</td>
<td>1.57</td>
</tr>
<tr>
<td>CCPL2H4658-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 46 - 58 mm.</td>
<td>1.81 - 2.28</td>
<td>46 - 58</td>
<td>2.56</td>
<td>65</td>
<td>4.53</td>
<td>115</td>
<td>1.94</td>
</tr>
<tr>
<td>CCPL2H5870-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 58 - 70 mm.</td>
<td>2.28 - 2.76</td>
<td>58 - 70</td>
<td>3.07</td>
<td>78</td>
<td>5.04</td>
<td>136</td>
<td>2.17</td>
</tr>
<tr>
<td>CCPL2H7083-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 70 - 83 mm.</td>
<td>2.76 - 3.27</td>
<td>70 - 83</td>
<td>3.65</td>
<td>92</td>
<td>5.56</td>
<td>169</td>
<td>2.50</td>
</tr>
<tr>
<td>CCPL2H8397-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 83 - 97 mm.</td>
<td>3.27 - 3.82</td>
<td>83 - 97</td>
<td>4.24</td>
<td>106</td>
<td>6.13</td>
<td>202</td>
<td>2.74</td>
</tr>
<tr>
<td>CCPL2H97109-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 97 - 109 mm.</td>
<td>3.82 - 4.41</td>
<td>97 - 109</td>
<td>4.81</td>
<td>120</td>
<td>6.69</td>
<td>215</td>
<td>3.07</td>
</tr>
<tr>
<td>CCPL2H109120-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 109 - 120 mm.</td>
<td>4.41 - 4.89</td>
<td>109 - 120</td>
<td>5.40</td>
<td>134</td>
<td>7.26</td>
<td>229</td>
<td>3.37</td>
</tr>
<tr>
<td>CCPL2H120135-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 120 - 135 mm.</td>
<td>4.89 - 5.37</td>
<td>120 - 135</td>
<td>6.08</td>
<td>150</td>
<td>7.93</td>
<td>243</td>
<td>3.67</td>
</tr>
<tr>
<td>CCPL2H135150-X</td>
<td>Cable cleat, polymer, two-hole configuration with a cable diameter of 135 - 150 mm.</td>
<td>5.37 - 5.91</td>
<td>135 - 150</td>
<td>6.76</td>
<td>165</td>
<td>8.60</td>
<td>258</td>
<td>4.03</td>
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</table>

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**Short Circuit Testing Summary**

<table>
<thead>
<tr>
<th>Current Level</th>
<th>Standard Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>85.4 kA</td>
<td>IEEE, IEC, UL, and ANSI standards compliance for electric power equipment</td>
</tr>
<tr>
<td>85.4 kA</td>
<td>1593 lbs force (7.09 kN)</td>
</tr>
</tbody>
</table>

---

**Two-Hole Cleat**

- **Flat Formation 105 mm Cable Spacing**
- **Flat Formation 155 mm Cable Spacing**

---

[1] Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.
The "Polymer One-Hole Cleat" is ideal for lower to medium short circuit faults in less harsh environments. It is available in multiple sizes with cable range-taking capability and is suitable for single conductor cable arrangements.

The cleat is installed after running cable by installing direct to the cable tray rung via a fixing hole and M10 bolt.

### Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cable Diameter Range</th>
<th>H</th>
<th>W</th>
<th>D</th>
<th>E</th>
<th>S</th>
<th>Notes</th>
<th>Mounting Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCPL1H1013-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 10 – 13 mm.</td>
<td>10.08 - 13.10</td>
<td>1.10</td>
<td>35</td>
<td>1.74</td>
<td>42</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
</tr>
<tr>
<td>CCPL1H1316-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 13 – 16 mm.</td>
<td>12.32 - 15.27</td>
<td>1.87</td>
<td>45</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
<tr>
<td>CCPL1H1619-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 16 – 19 mm.</td>
<td>1.70 - 20.92</td>
<td>1.09</td>
<td>36</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
<tr>
<td>CCPL1H1923-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 19 – 23 mm.</td>
<td>1.70 - 20.92</td>
<td>1.09</td>
<td>36</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
<tr>
<td>CCPL1H2327-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 23 – 27 mm.</td>
<td>1.61 - 20.91</td>
<td>0.87</td>
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<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
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<tr>
<td>CCPL1H2732-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 27 – 32 mm.</td>
<td>1.77 - 20.91</td>
<td>0.87</td>
<td>41</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
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<tr>
<td>CCPL1H3238-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 32 – 38 mm.</td>
<td>1.97 - 20.91</td>
<td>0.87</td>
<td>41</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
<tr>
<td>CCPL1H3846-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 38 – 46 mm.</td>
<td>2.28 - 20.91</td>
<td>0.87</td>
<td>41</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
<tr>
<td>CCPL1H4651-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 46 – 51 mm.</td>
<td>2.56 - 20.91</td>
<td>0.87</td>
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<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
<tr>
<td>CCPL1H5157-X</td>
<td>Cable cleat, polymer, one-hole configuration with a cable diameter of 51 – 57 mm.</td>
<td>2.76 - 20.91</td>
<td>0.87</td>
<td>41</td>
<td>1.89</td>
<td>45</td>
<td>0.56</td>
<td>15</td>
<td>0.81</td>
</tr>
</tbody>
</table>

### Short Circuit Testing Summary

1 69.5 kA 69.5 kA
2 1055 lbs force (4.69 kN) 1055 lbs force (4.69 kN)
3 Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.

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**Interlock feature prevents rotation between top and bottom pieces**

**Rounded edges for cable protection**

**Ridges to hold cable in place**

**Corrosion resistant body**
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