



# TREFOIL

## CABLE CLEAT

### MULTIPLE CABLE TYPE

#### Features and Benefits

- Provides securing, support and retention of cables in cable ladder, tray or strut systems.
- Designed to hold cables together in a trefoil arrangement and to provide resistance to electromechanical forces during short circuit conditions.
- Manufactured from corrosion resistant non-magnetic 316 stainless steel.
- Complete with LSOH polymeric liners to protect cable sheaths during installation and movement due to electromechanical forces during short circuits.
- Open hinge system allows for easy placement of cables into the cleat prior to tightening.
- Accessible tightening bolt allows for easy tightening with a single tool.
- Wide range 13mm to 128mm.

#### Construction

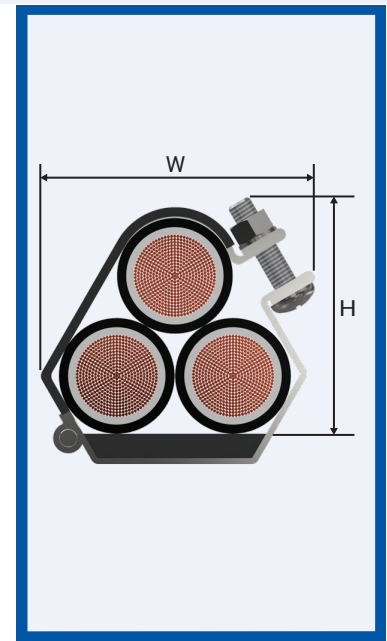
|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Frame:              | Non-magnetic corrosion resistant 316 stainless steel     |
| Cable resting base: | LSF Polymeric composite                                  |
| Liner:              | LSF Polymeric composite                                  |
| Locking hardware:   | 316 stainless steel M8 or M10 nylon locking nut and bolt |

#### Technical Specifications

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| Type:                            | Trefoil Cable Cleat                                                      |
| Third party certified:           | IEC 61914:2015                                                           |
| Resistance to mechanical forces: | 230 kA 300 mm spacing<br>180 kA 600 mm spacing<br>100 kA 1200 mm spacing |
| Lateral load test:               | Average 25kg                                                             |
| Axial load test:                 | Pass according to IEC 61914                                              |
| Impact resistance:               | Very Heavy                                                               |
| Temperature range:               | -40°C to 105°C                                                           |
| Needle flame test:               | 650°C for 30 sec                                                         |
| UV resistance test:              | 1,000 hrs                                                                |

#### Standards and Certifications

|              |           |              |
|--------------|-----------|--------------|
| Conformance: | Standard: | Certificate: |
| Marine DNV   | IEC 61914 | TAE00004C3   |



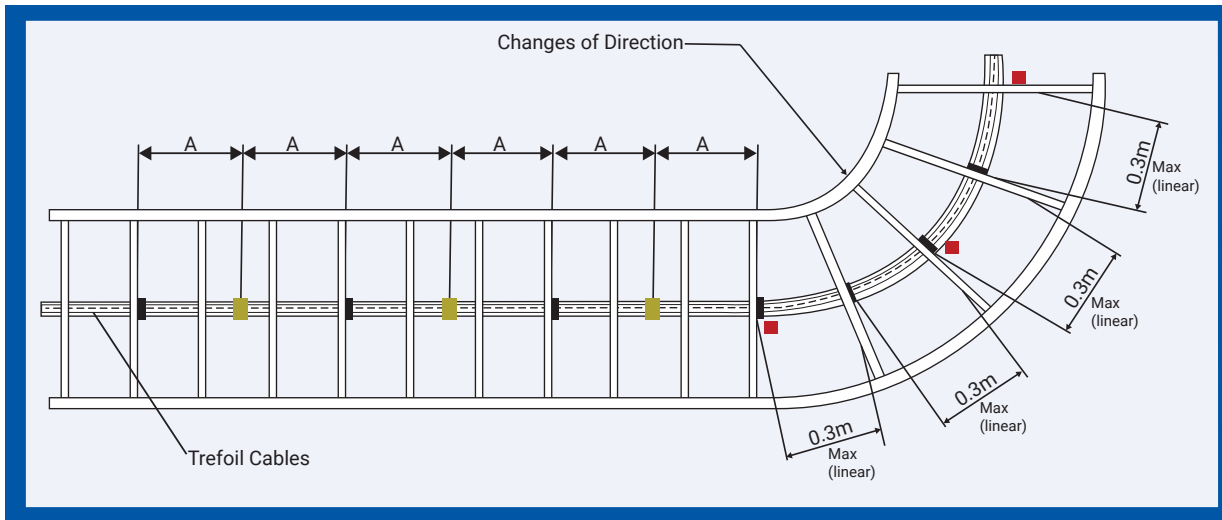
| Product Code | Cable Range  |               |              |               | Dimensions |            |          |           |
|--------------|--------------|---------------|--------------|---------------|------------|------------|----------|-----------|
|              | Min. Dia. mm | Min. Dia. in. | Max. Dia. mm | Max. Dia. in. | Height mm  | Height in. | Width mm | Width in. |
| CC-T1323     | 13.0         | 0.51          | 23.0         | 0.91          | 73.0       | 2.87       | 68.0     | 2.68      |
| CC-T2125     | 21.0         | 0.83          | 25.0         | 0.98          | 75.0       | 2.95       | 72.0     | 2.83      |
| CC-T2329     | 23.0         | 0.91          | 29.0         | 1.14          | 80.0       | 3.15       | 79.0     | 3.11      |
| CC-T2531     | 25.0         | 0.98          | 31.0         | 1.22          | 83.0       | 3.27       | 82.0     | 3.23      |
| CC-T2733     | 27.0         | 1.06          | 33.0         | 1.30          | 84.0       | 3.31       | 85.0     | 3.35      |
| CC-T2935     | 29.0         | 1.14          | 35.0         | 1.38          | 89.0       | 3.50       | 90.0     | 3.54      |
| CC-T3238     | 32.0         | 1.26          | 38.0         | 1.50          | 92.0       | 3.62       | 96.0     | 3.78      |
| CC-T3541     | 35.0         | 1.38          | 41.0         | 1.61          | 98.0       | 3.86       | 100.0    | 3.94      |
| CC-T3844     | 38.0         | 1.50          | 44.0         | 1.73          | 100.0      | 3.94       | 106.0    | 4.17      |
| CC-T4248     | 42.0         | 1.65          | 48.0         | 1.89          | 104.0      | 4.09       | 113.0    | 4.45      |
| CC-T4551     | 45.0         | 1.77          | 51.0         | 2.01          | 107.0      | 4.21       | 120.0    | 4.72      |
| CC-T4753     | 47.0         | 1.85          | 53.0         | 2.09          | 110.0      | 4.33       | 122.0    | 4.80      |
| CC-T4955     | 49.0         | 1.93          | 55.0         | 2.70          | 113.0      | 4.45       | 125.0    | 4.92      |
| CC-T5157     | 51.0         | 2.01          | 57.0         | 2.24          | 115.0      | 4.53       | 127.0    | 5.00      |
| CC-T5359     | 53.0         | 2.09          | 59.0         | 2.32          | 118.0      | 4.65       | 135.0    | 5.31      |
| CC-T5561     | 55.0         | 2.17          | 61.0         | 2.40          | 122.0      | 4.80       | 138.0    | 5.43      |
| CC-T5763     | 57.0         | 2.24          | 63.0         | 2.48          | 125.0      | 4.92       | 141.0    | 5.55      |
| CC-T5965     | 59.0         | 2.32          | 65.0         | 2.56          | 126.0      | 4.96       | 145.0    | 5.71      |
| CC-T6167     | 61.0         | 2.40          | 67.0         | 2.64          | 131.0      | 5.16       | 148.0    | 5.83      |
| CC-T6369     | 63.0         | 2.48          | 69.0         | 2.72          | 134.0      | 5.28       | 153.0    | 6.02      |
| CC-T6571     | 65.0         | 2.56          | 71.0         | 2.80          | 139.0      | 5.47       | 155.0    | 6.10      |
| CC-T6773     | 67.0         | 2.64          | 73.0         | 2.87          | 143.0      | 5.63       | 156.0    | 6.14      |
| CC-T6975     | 69.0         | 2.72          | 75.0         | 2.95          | 146.0      | 5.75       | 161.0    | 6.34      |
| CC-T7177     | 71.0         | 2.80          | 77.0         | 3.03          | 150.0      | 5.91       | 164.0    | 6.46      |
| CC-T7379     | 73.0         | 2.87          | 79.0         | 3.11          | 154.0      | 6.06       | 166.0    | 6.54      |
| CC-T7581     | 75.0         | 2.95          | 81.0         | 3.19          | 157.0      | 6.18       | 170.0    | 6.69      |
| CC-T7783     | 77.0         | 3.03          | 83.0         | 3.27          | 160.0      | 6.30       | 174.0    | 6.85      |
| CC-T7985     | 79.0         | 3.11          | 85.0         | 3.35          | 162.0      | 6.38       | 178.0    | 7.01      |
| CC-T8187     | 81.0         | 3.19          | 87.0         | 3.43          | 168.0      | 6.61       | 181.0    | 7.13      |
| CC-T8389     | 83.0         | 3.27          | 89.0         | 3.50          | 172.0      | 6.77       | 185.0    | 7.25      |
| CC-T8896     | 88.0         | 3.46          | 96.0         | 3.78          | 180.0      | 7.09       | 195.0    | 7.68      |
| CC-T96103    | 96.0         | 3.78          | 103.0        | 4.06          | 189.0      | 7.44       | 203.0    | 7.99      |
| CC-T1103111  | 103.0        | 4.06          | 111.0        | 4.37          | 198.0      | 7.80       | 206.0    | 8.11      |
| CC-T1111119  | 111.0        | 4.39          | 119.0        | 4.69          | 207.0      | 8.15       | 215.0    | 8.46      |
| CC-T119128   | 119.0        | 4.69          | 127.0        | 5.04          | 216.0      | 8.50       | 223.0    | 8.78      |

# SELECTION OF

# TREFOIL CABLE CLEATS

## How to select cable cleats

1. IDENTIFY
  - Which type of cable is being used. Single or multi-conductor?
  - What is the outer diameter of the cable?
  - What is the available short circuit current (RMS or Peak) of the cables?
  - If a ground wire is installed in the cleats, identify the outer diameter of the ground wire?
2. THE SYSTEM
  - What is the cable formation, single or trefoil?
  - What type of the cable tray is installed?



| Max. Cable Cleat Spacing "A" |       | Spacing between Conductor Centers mm |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------------|-------|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                              |       | IP PEAK (kA)                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| mm                           | in    | 23                                   | 25  | 27  | 29  | 31  | 33  | 35  | 37  | 39  | 41  | 43  | 45  | 47  | 49  | 51  | 53  | 55  | 57  | 59  | 61  |
| 225                          | 8.859 | 179                                  | 187 | 194 | 203 | 209 | 216 | 220 | 229 | 234 | 240 | 246 | 250 | 255 | 261 | 266 | 271 | 276 | 281 | 286 | 291 |
| 300                          | 11.81 | 155                                  | 163 | 168 | 174 | 181 | 187 | 192 | 198 | 203 | 209 | 214 | 215 | 220 | 225 | 230 | 235 | 239 | 244 | 248 | 252 |
| 450                          | 17.72 | 128                                  | 133 | 137 | 144 | 148 | 152 | 157 | 161 | 165 | 170 | 174 | 178 | 180 | 184 | 189 | 192 | 195 | 199 | 202 | 206 |
| 600                          | 23.62 | 110                                  | 115 | 119 | 124 | 128 | 132 | 135 | 139 | 143 | 148 | 150 | 153 | 156 | 160 | 163 | 166 | 169 | 172 | 175 | 178 |
| 675                          | 26.57 | 104                                  | 108 | 113 | 117 | 121 | 124 | 128 | 132 | 135 | 139 | 143 | 147 | 147 | 150 | 154 | 156 | 159 | 162 | 165 | 168 |
| 900                          | 35.43 | 89                                   | 93  | 97  | 102 | 105 | 108 | 110 | 115 | 117 | 121 | 124 | 127 | 128 | 130 | 133 | 135 | 138 | 140 | 143 | 145 |