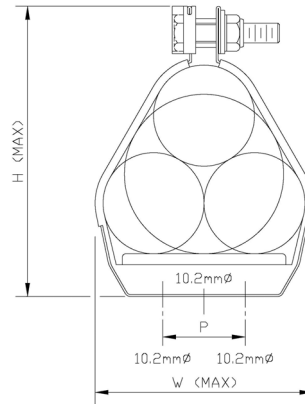


Data Sheet: Ellis Patents VULCAN Cable Cleat with LSF Liner

Vulcan cable cleats are recommended for installations where moderate to high levels of short circuit withstand are required. Vulcan 'VRT' cable cleats are designed for single, trefoil and triplex (using optional 'SFT' cable surround) cable installations. Vulcan 'VRQ' cable cleats are designed for quad cable applications. Vulcan cable cleats are independently certified to IEC61914:2009 §6.4.4 (Cat-2) resistance to electromechanical forces during short circuits (i.e. cable and cleats are intact and reusable after two successive short circuit tests). To protect and cushion cables, each Vulcan cable cleat incorporates an integral low smoke and fume, zero halogen liner in its unique patented design. Recommended fixing methods include one bolt, two bolts, weld stud or framing strut mounting. Optional rung adapters are available to mount Vulcan cable cleats to non-perforated ladder tray rungs.



| Part No | Single Cable Range (mm) | | Trefoil/ Quad Cable Range (mm) | | Dimensions (mm) | | | Mtg Holes | Weight (kg) |
|---------|-------------------------|---------|--------------------------------|---------|-----------------|-----|-----|-----------|-------------|
| | Min Dia | Max Dia | Min Dia | Max Dia | H | W | P | | |
| VRT+00 | 33 | 42 | 19 | 24 | 93 | 60 | N/A | 1 | 0.251 |
| VRT+01 | 38 | 50 | 23 | 28 | 98 | 63 | N/A | 1 | 0.258 |
| VRT+02 | 43 | 58 | 27 | 32 | 106 | 72 | N/A | 1 | 0.269 |
| VRT+03 | 49 | 64 | 30 | 35 | 112 | 79 | N/A | 1 | 0.279 |
| VRT+04 | 55 | 70 | 33 | 38 | 118 | 85 | N/A | 1 | 0.284 |
| VRT+05 | 58 | 75 | 36 | 42 | 125 | 96 | N/A | 1 | 0.319 |
| VRT+06 | 63 | 84 | 40 | 46 | 133 | 105 | N/A | 1 | 0.331 |
| VRT+07 | 73 | 90 | 44 | 50 | 140 | 112 | N/A | 1 | 0.391 |
| VRT+08 | 83 | 100 | 48 | 55 | 149 | 121 | N/A | 1 | 0.405 |
| VRT+09 | 86 | 104 | 51 | 58 | 154 | 126 | N/A | 1 | 0.411 |
| VRT+10 | 88 | 110 | 55 | 62 | 162 | 134 | 50 | 3 | 0.442 |
| VRT+11 | 90 | 115 | 59 | 66 | 170 | 143 | 50 | 3 | 0.453 |
| VRT+12 | 100 | 125 | 63 | 70 | 177 | 152 | 50 | 3 | 0.460 |
| VRT+13 | 107 | 132 | 67 | 74 | 185 | 161 | 75 | 3 | 0.524 |
| VRT+14 | 120 | 145 | 71 | 78 | 192 | 169 | 75 | 3 | 0.536 |
| VRT+15 | 125 | 150 | 74 | 82 | 199 | 176 | 75 | 3 | 0.542 |
| VRT+16 | 132 | 153 | 77 | 85 | 205 | 183 | 75 | 3 | 0.544 |
| VRT+17 | 136 | 156 | 81 | 89 | 216 | 190 | 75 | 3 | 0.618 |
| VRT+18 | 139 | 159 | 85 | 93 | 225 | 200 | 75 | 3 | 0.628 |
| VRT+19 | 142 | 162 | 89 | 97 | 235 | 200 | 75 | 3 | 0.637 |
| VRT+20 | 150 | 170 | 93 | 101 | 240 | 215 | 75 | 3 | 0.646 |
| VRQ+01 | --- | --- | 23 | 25 | 110 | 68 | N/A | 1 | 0.284 |
| VRQ+02 | --- | --- | 26 | 27 | 113 | 70 | N/A | 1 | 0.286 |
| VRQ+03 | --- | --- | 28 | 32 | 128 | 80 | N/A | 1 | 0.318 |
| VRQ+04 | --- | --- | 33 | 42 | 148 | 103 | N/A | 1 | 0.378 |
| VRQ+05 | --- | --- | 43 | 47 | 165 | 120 | N/A | 1 | 0.452 |
| VRQ+06 | --- | --- | 48 | 50 | 170 | 121 | N/A | 1 | 0.467 |
| VRQ+07 | --- | --- | 51 | 57 | 190 | 140 | 50 | 3 | 0.486 |
| VRQ+08 | --- | --- | 58 | 63 | 200 | 150 | 50 | 3 | 0.499 |
| VRQ+09 | --- | --- | 64 | 70 | 218 | 170 | 75 | 3 | 0.581 |

| IEC 61914:2009, Cable Cleats for Electrical Installations, Classification | |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Cleat Type | Composite |
| Operating Temperature Range | -40°C to +60°C |
| Resistance to Electromechanical Force | §6.4.3 (Cat-1): 135kA _{PEAK} / 62kA _{RMS} §6.4.4 (Cat-2): Contact us |
| Lateral Load Test | 3000N (Trefoil); 5830N (Single) |
| Axial Load Test | 1000N (Trefoil); 280N (Single) |
| Impact Resistance | Very Heavy (>6.7kg @ 300mm) |
| Needle Flame Test | >120 seconds |

| TECHNICAL SPECIFICATIONS | |
|--------------------------|-----------------------------------------------------------------|
| Frame | 50mm wide x 1mm Marine Grade, Non-magnetic 316L Stainless Steel |
| Closure Hardware | 316 Stainless Steel M10 Bolt Serrated Hex Flange Lock Nut |
| Integral Liner | Low Smoke, Low Fume Zero Halogen Polymer |
| Tools Required | 11/16" or 17mm Wrench |
| Mounting Bolts | One or Two 3/8" Diameter Bolts (not included) |