





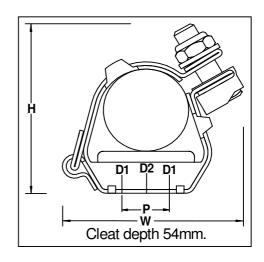
Emperor Data Sheet (Single Cable)

Emperor Cable Cleats are available for trefoil and single cable applications where the highest levels of short circuit withstand are required. The unique patented design allows rapid installation. The frame, manufactured from 316L stainless steel (BS EN 10088:1995), offers the ultimate protection against the harshest environmental conditions. The frame is tightened and locked using a combination of M12 Set Screw, Nyloc Nut and washer in A4 Stainless Steel (BS3692:2001), Screw head Retainer in 'Zero-Halogen, Low Smoke & Fume' (LSF) Nylon (MDS02 Data Sheet)* and Emperor LSF Polymeric Washer (MDS01 Data Sheet)*. To protect and cushion the cables during short circuit conditions, the cleat is supplied with an integral LSF Polymeric liner and base pads (MDS01 Data Sheet)*.

Recommended fixing methods include using either two 10mm bolts or a single 12mm bolt (available as extras), although other bolt sizes can be accommodated.

Emperor Cleat - Single Cable Application





Selection Table for Single Cable Application

| Part No ES-Cable Dia in mm. | | | | | | |
|--------------------------------|------|------|------|--|--|--|
| FS34 | FS35 | ES36 | FS37 | | | |
| ES36 | ES39 | ES40 | ES41 | | | |
| ES42 | ES43 | ES44 | | | | |
| ES45 | ES46 | ES47 | ES48 | | | |
| ES49 | ES50 | ES51 | | | | |
| ES52 | ES53 | ES54 | ES55 | | | |
| ES56 | ES57 | ES58 | | | | |
| ES59 | ES60 | ES61 | ES62 | | | |
| ES63 | ES64 | ES65 | | | | |
| ES66 | ES67 | ES68 | ES69 | | | |
| ES70 | ES71 | ES72 | | | | |

| W | Н | Dimensions P | D1 | D2 | Weight |
|-----|-----|-----------------|------|------|--------|
| mm | mm | mm | mm | mm | g |
| 87 | 84 | 25 | 10.2 | 12.2 | 400 |
| 91 | 89 | 25 | 10.2 | 12.2 | 400 |
| 92 | 90 | 25 | 10.2 | 12.2 | 400 |
| 96 | 93 | 25 | 10.2 | 12.2 | 420 |
| 97 | 94 | 25 | 10.2 | 12.2 | 420 |
| 99 | 98 | 25 | 10.2 | 12.2 | 430 |
| 100 | 99 | 25 | 10.2 | 12.2 | 420 |
| 103 | 102 | 25 | 10.2 | 12.2 | 450 |
| 104 | 103 | 25 | 10.2 | 12.2 | 430 |
| 109 | 101 | 25 | 10.2 | 12.2 | 460 |
| 110 | 102 | 25 | 10.2 | 12.2 | 440 |

^{*} Material Data Sheets MDS01 & MDS02 are available upon request.

Testing Information

Emperor Cleats have been tested in line with the European Standard of 'Cable Cleats for Electrical Installations' BS EN 50368:2003. Typical results are detailed below:

| Properties | BS EN 50368:2003 Classification Clause | Units / Classification | Emperor Single Cable Application Test Data | | | |
|--|--|--|---|--|--|--|
| Cleat Type | 6.1, 6.1.3 | Composite | - | | | |
| Impact Resistance | 6.2, 6.2.5, 9.3 | Very Heavy Classification (>6.7kg @ 300mm) | Pass | | | |
| Resistance to Electromechanical Force. | 6.3 | Refer to Ellis Patents for further details. | Refer to Ellis Patents for further details. | | | |
| Temperature for Permanent Application | 6.4 | °C | -40 to 60 | | | |
| Needle Flame Test | 6.5, 10.0 | Application Time (seconds) | >120 | | | |
| Lateral Load Test | 9.2 | Newtons (N) | **14500 | | | |
| Axial Movement Test | 9.5 | Newtons (N) | 700 | | | |
| ** The Cleat deflected less than half the diameter of the cable. | | | | | | |