

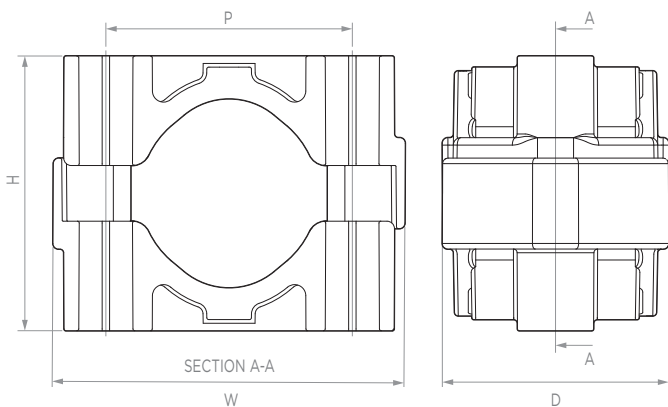
FALCON (2BC PLASTIC)

The Falcon Two Bolt single cable cleat is a non-metallic cable cleat which has been designed, constructed, and tested in accordance with the International Standard 'cable cleats for Electrical Installations' (IEC 61914).

It ensures the retention and securing of single cables, without damaging or deforming the cable. The cable cleat is manufactured from various materials making it suitable for both indoor and outdoor applications. Due to its unique twin arc internal patent pending design profile it exhibits excellent retention, limiting both the axial and lateral movement. The Falcon Two Bolt cable cleats have an excellent range take and are suitable for cable diameters of 38mm up to 135mm in only eight sizes. This cable cleat has two M12 clearance holes for securing it to a mounting surface, which allows for either M10 or M12 fasteners to be used.

FEATURES

- Third party certification to IEC 61914
- Available in three different materials:
 - Nylon
 - Low Smoke and Fume Zero Halogen (LSFOH), Phosphorus-free, VO Nylon
 - LUL approved polymer
- Sunlight (UV) & weather resistant
- Operating temperature -40°C to +60°C
- Can be double stacked
- 38 - 135mm in 8 sizes
- Excellent axial and lateral load retention
- Two bolt fixing design



TECHNICAL DATA & CLASSIFICATION

| TYPE | Type 6.1.2. Non Metallic 2BC - Two Bolt Cable Cleat |
|---------------------------------------|---|
| DESIGN SPECIFICATION | IEC 61914 |
| TEMPERATURE FOR PERMANENT APPLICATION | -40°C to +60°C IEC 61914 clause / part 6.2 |
| NEEDLE FLAME TEST | Pass - 120 second flame application time IEC 61914 clause 10.0, 10.1, IEC 60695-11-5 |
| LATERAL LOAD TEST | 16kN - 26kN, IEC 61914 clause 9.3 |
| AXIAL LOAD TEST | 2.75kN - 5kN, IEC 61914 clause 9.4 |
| IMPACT RESISTANCE | Pass - Very Heavy IEC 61914 clause 6.3, 6.3.5, 9.2 |
| UV RESISTANCE | Pass - IEC 61914 clause 6.5.1.2, 11.1 |
| MATERIAL | Standard Nylon, UL94 VO Nylon or LUL Approved Polymer Note: VO Nylon & LUL Polymer are Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free |
| MATERIAL COLOUR | Black |

SHORT CIRCUIT TESTING TO IEC 61914 - CLAUSE 9.5

| MULTICORE FORMATION | PARALLEL FORMATION | |
|---|---|--|
| Two short circuits 600mm fixed cleat centres | One short circuit 600mm fixed cleat centres 105mm cable centres | Two short circuits 600mm fixed cleat centres 105mm cable centres |
| 0.1 sec | 0.1 sec | 0.1 sec |
| 76kA Peak | 110kA Peak | 86kA Peak |
| 36.2kA r.m.s | 50.0kA r.m.s | 40.9kA r.m.s |

CABLE CLEAT SELECTION TABLE

| FALCON PART NO. | CABLE Ø RANGE TAKE (MM) | DIMENSIONS MM | | | | | WEIGHT (g) *(LUL +5%) |
|-----------------|-------------------------|---------------|-----|----|-----------|---------------|--------------------------|
| | | W | H | D | P | FIXING HOLE Ø | |
| 2BC038048 | 38 - 48 | 96 | 74 | 61 | 65 - 69 | 2 x M10 / M12 | 124 |
| 2BC048058 | 48 - 58 | 107 | 84 | 61 | 76 - 80 | 2 x M10 / M12 | 146 |
| 2BC058070 | 58 - 70 | 119 | 97 | 61 | 88 - 92 | 2 x M10 / M12 | 176 |
| 2BC070083 | 70 - 83 | 133 | 110 | 61 | 102 - 106 | 2 x M10 / M12 | 211 |
| 2BC083097 | 83 - 97 | 147 | 124 | 61 | 116 - 120 | 2 x M10 / M12 | 242 |
| 2BC096109 | 96 - 109 | 160 | 136 | 61 | 129 - 133 | 2 x M10 / M12 | 276 |
| 2BC106120 | 106 - 120 | 172 | 148 | 61 | 141 - 145 | 2 x M10 / M12 | 310 |
| 2BC120135 | 120 - 135 | 187 | 163 | 61 | 156 - 160 | 2 x M10 / M12 | 349 |

Order reference examples: for standard nylon 2BC038048, for LSF suffix Z (2BC038048Z), for LUL approved polymer suffix LUL (2BC038048LUL). * LUL products are 5% heavier than the weights shown in table. Fasteners required to secure the cable cleat to the support structure are not included with the ordering references shown in the selection table but can be supplied on request - see cleat fixing pack page 64-65. For lateral and axial load ratings or short circuit ratings of LUL polymer products, please contact CMP.