

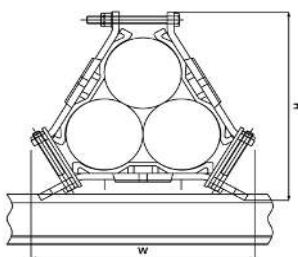
Atlas Cleat Data Sheet

Atlas cable cleats are available for Trefoil and Single cable applications where high levels of short circuit withstand are required. As well as providing cables with significant mechanical support, the unique patented design provides a choice of one bolt, two bolt or framing channel fixing options. Manufactured in galvanised steel (this cleat also comes in stainless steel to offer ultimate protection against the harshest environmental conditions) all cleats are supplied with an M12 nut and locking nut, M12 washer and an M12 A2 stainless steel top bolt to eliminate eddy currents. The cleat is also supplied with two M12 nuts, bolts and washers, for adjustment and two Atlas Stabilizers in Low Smoke & Fume Zero Halogen Nylon (MDS02 Data Sheet)*. Single cable cleats are supplied with a Low Smoke & Fume Zero Halogen Polymeric washer (MDS01 Data Sheet)*. **UK Patent GB 228 4444**

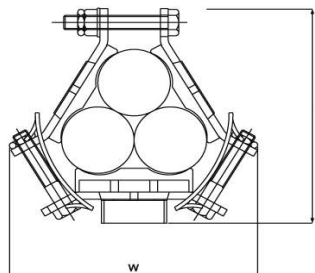
To protect and cushion the cables during short circuit conditions, the cleat comes with integral Low Smoke & Fume Zero Halogen Polymeric pads (MDS01 Data Sheet)*.

For the intermediate strap type AS please contact our Sales office.

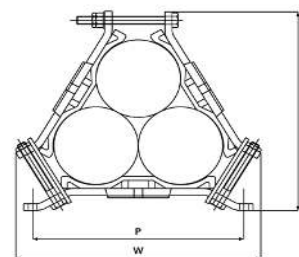
* Material Data Sheets MDS01 & MDS02 are available on request.



Framing Channel



Single Bolt



Two Bolt

Selection Table for Trefoil Cable Applications

| Part Number | Cable Dia. Range mm | Dimensions | | | | | | | | | | | | | Weight g |
|-------------|---------------------|------------|------|------|------|--------------|-------------|------|------|-------------|-----------------|------|------|-------------|----------|
| | | Two Bolt | | | | | Single Bolt | | | | Framing Channel | | | | |
| | | W mm | H mm | C mm | P mm | Fixing Holes | W mm | H mm | C mm | Fixing Hole | W mm | H mm | C mm | Fixing Hole | |
| AR2-A31-* | 24-26 | 170 | 121 | 54 | 150 | 2xM10 | 144 | 130 | 54 | 1xM10 | 144 | 125 | 54 | 1xM10 | 930 |
| AR2-A32- | 26-30 | 170 | 122 | 54 | 150 | 2xM10 | 144 | 130 | 54 | 1xM10 | 144 | 125 | 54 | 1xM10 | 930 |
| AR2-A33- | 30-35 | 170 | 133 | 54 | 150 | 2xM10 | 157 | 141 | 54 | 1xM10 | 157 | 136 | 54 | 1xM10 | 970 |
| AR2-A34- | 35-40 | 170 | 134 | 54 | 150 | 2xM10 | 158 | 142 | 54 | 1xM10 | 158 | 137 | 54 | 1xM10 | 930 |
| AR3-A35- | 40-45 | 198 | 158 | 54 | 175 | 2xM10 | 185 | 165 | 54 | 1xM10 | 185 | 160 | 54 | 1xM10 | 1200 |
| AR3-A36- | 45-50 | 198 | 160 | 54 | 175 | 2xM10 | 187 | 167 | 54 | 1xM10 | 187 | 162 | 54 | 1xM10 | 1200 |
| AR4-A37- | 50-55 | 214 | 174 | 54 | 200 | 2xM10 | 204 | 182 | 54 | 1xM12 | 204 | 177 | 54 | 1xM12 | 1300 |
| AR4-A38- | 55-60 | 214 | 179 | 54 | 200 | 2xM10 | 210 | 187 | 54 | 1xM12 | 210 | 182 | 54 | 1xM12 | 1300 |
| AR4-A39- | 60-66 | 214 | 185 | 54 | 200 | 2xM10 | 217 | 193 | 54 | 1xM12 | 217 | 188 | 54 | 1xM12 | 1300 |
| AR5-A61- | 66-71 | 250 | 225 | 54 | 225 | 2xM10 | 254 | 225 | 54 | 1xM12 | 254 | 220 | 54 | 1xM12 | 1800 |
| AR5-A62- | 71-76 | 250 | 226 | 54 | 225 | 2xM10 | 255 | 226 | 54 | 1xM12 | 255 | 221 | 54 | 1xM12 | 1800 |
| AR5-A63 | 76-82 | 250 | 230 | 54 | 225 | 2xM10 | 260 | 230 | 54 | 1xM12 | 260 | 225 | 54 | 1xM12 | 1800 |
| AR8-A64- | 82-92 | 285 | 250 | 54 | 225 | 2xM10 | N/A | | | | N/A | | | | 2100 |
| AR8-A65- | 92-102 | 285 | 250 | 54 | 225 | 2xM10 | N/A | | | | N/A | | | | 1900 |

Dimension 'C' is the cleat depth - not shown on drawing

*To order please add fixing suffix: Two Bolt-TB Single Bolt-SB Framing Cleat-FC

Selection Table for Single Cable Applications

| Part Number | Cable Dia. Range mm | Dimensions | | | | | | | | | | | | | Weight g |
|-------------|---------------------|------------|------|------|------|--------------|-------------|------|------|-------------|-----------------|------|------|-------------|----------|
| | | Two Bolt | | | | | Single Bolt | | | | Framing Channel | | | | |
| | | W mm | H mm | C mm | P mm | Fixing holes | W mm | H mm | C mm | Fixing Hole | W mm | H mm | C mm | Fixing Hole | |
| AR2-A11-* | 38-41 | 170 | 128 | 54 | 150 | 2xM10 | 144 | 136 | 54 | 1xM10 | 144 | 131 | 54 | 1xM10 | 950 |
| AR2-A12- | 41-74 | 170 | 129 | 54 | 150 | 2xM10 | 144 | 136 | 54 | 1xM10 | 144 | 131 | 54 | 1xM10 | 930 |
| AR2-A13- | 47-55 | 170 | 140 | 54 | 150 | 2xM10 | 157 | 147 | 54 | 1xM10 | 157 | 142 | 54 | 1xM10 | 940 |
| AR2-A14- | 55-63 | 170 | 141 | 54 | 150 | 2xM10 | 158 | 148 | 54 | 1xM10 | 158 | 143 | 54 | 1xM10 | 930 |
| AR3-A15- | 63-70 | 198 | 164 | 54 | 175 | 2xM10 | 185 | 172 | 54 | 1xM10 | 185 | 167 | 54 | 1xM10 | 1200 |
| AR3-A16- | 70-79 | 198 | 166 | 54 | 175 | 2xM10 | 187 | 173 | 54 | 1xM10 | 187 | 168 | 54 | 1xM10 | 1200 |
| AR4-A17- | 79-87 | 214 | 180 | 54 | 200 | 2xM10 | 204 | 188 | 54 | 1xM12 | 204 | 183 | 54 | 1xM12 | 1300 |
| AR4-A18- | 87-95 | 214 | 186 | 54 | 200 | 2xM10 | 210 | 193 | 54 | 1xM12 | 210 | 188 | 54 | 1xM12 | 1300 |
| AR4-A19- | 95-104 | 214 | 192 | 54 | 200 | 2xM10 | 217 | 199 | 54 | 1xM12 | 217 | 197 | 54 | 1xM12 | 1300 |
| AR5-A51- | 104-112 | 250 | 231 | 54 | 225 | 2xM10 | 254 | 231 | 54 | 1xM12 | 254 | 226 | 54 | 1xM12 | 1700 |
| AR5-A52- | 112-120 | 250 | 232 | 54 | 225 | 2xM10 | 255 | 232 | 54 | 1xM12 | 255 | 227 | 54 | 1xM12 | 1700 |
| AR5-A53 | 120-130 | 250 | 237 | 54 | 225 | 2xM10 | 260 | 237 | 54 | 1xM12 | 260 | 232 | 54 | 1xM12 | 1700 |

Dimension 'C' is the cleat depth - not shown on drawing

*To order please add fixing suffix: Two Bolt-TB Single Bolt-SB Framing Cleat-FC

Testing Information

Atlas 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 | Atlas Trefoil Cable Application Test Data | Atlas 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 | Pass |
| Resistance to Electro Mechanical Force | 6.3 | Refer to Ellis Patents for further details. | Refer to Ellis Patents for further details. | Refer to Ellis Patents for further details. |
| Temperature for Permanent Application | 6.4 | °C | -40 to 60 | -40 to 60 |
| Needle Flame Test | 6.5, 10.0 | Application Time (seconds) | >120 | >120 |
| Lateral Load Test | 9.2 | Newtons (N) | Refer to Ellis Patents for further details. | 10670 |
| Axial Movement Test | 9.5 | | 2000 | 1450 |