## SHVSS

## Single high voltage stainless steel cleat

CMP SHVSS single cable cleat is a composite cable cleat which has been designed, constructed and tested in accordance with the International Standard 'cable cleats for electrical installations' IEC 61914:2015 to ensure the securing and retention of cables, without sustaining damage to the cable(s).

The stainless steel section of this cable cleat can be optionally coated with an extremely high performance UL94 VO flame retardant, halogen free, low smoke & fume, low toxicity polymer alloy coating which is resistant to: impact, abrasion, salt spray, chemical attack, weathering & UV and is perfectly suited for use in rail and tunnel applications.

SHVSS cable cleats are designed to be installed as a system for use with High Voltage cable installations and can be manufactured to suit any cable diameter.

Fabricated in non-magnetic 316L stainless steel, giving it high creep strength whilst providing excellent corrosion resistance in the harshest environments.

Flame retardant low smoke and fume, zero halogen (FR LSF/LSOH) polymeric fixed liners are fitted as standard, helping to:

- Restrain the cables within vertical applications.
- Provide a layer of protection to both the cable sheath and the cable cleat, during normal operation where thermal elongation of cable occurs.
- Protect the cable from chafing on any mounting surface due to differential movements, such as those found in marine and offshore applications.
- Assist in the extra protection of cables in the event of short circuit fault conditions.

## FEATURES

- Third party certification to IEC 61914:2015
- Available in 316L stainless steel
- Sunlight (UV) resistant
- Operating temperature -50°C to +60°C
- Excellent axial and lateral load retention



| <b>TECHNICAL DATA &amp; CLASSIFICATION</b> |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| TYPE                                       | 6.1.3 Composite  |  |  |  |  |  |
| DESIGN SPECIFICATION                       | IEC 61914  |  |  |  |  |  |
| TEMPERATURE FOR<br>Permanent Application   | -50°C to + 60°C<br>IEC 61914 clause / part 6.2                       |  |  |  |  |  |
| NEEDLE FLAME TEST                          | Pass - 120 seconds<br>IEC 61914 clause<br>10.0, 10.1, IEC 60695-11-5 |  |  |  |  |  |
| IMPACT RESISTANCE                          | Pass - Very Heavy<br>IEC 61914 clause 6.3, 6.3.5, 9.2                |  |  |  |  |  |
| MATERIAL                                   | 316L Stainless Steel   |  |  |  |  |  |
| MATERIAL THICKNESS                         | 2mm  |  |  |  |  |  |
| LINER MATERIAL                             | FR LSF / LSOH Polymer  |  |  |  |  |  |
| CABLE FORMATION                            | Parallel   |  |  |  |  |  |
| LATERAL LOAD                               | 33 kN  |  |  |  |  |  |
| AXIAL LOAD                                 | 4.5 kN   |  |  |  |  |  |





| CABLE CLEAT SELECTION TABLE |           |               |               |       |     |               |            |      |  |
|-----------------------------|-----------|---------------|---------------|-------|-----|---------------|------------|------|--|
| SHVSS<br>PART NO. TYPE      | TVDE      | CABLE Ø RANGE | DIMENSIONS mm |       |     |               |            |      |  |
|                             | TAKE (mm) | W1            | H             | D     | P*  | FIXING HOLE Ø | weight (g) |      |  |
| SHVSS090100                 | Fixed     | 90-100        | 170.3         | 135.3 | 180 | 100           | 2 X M16    | 2200 |  |
| SHVSS100110                 | Fixed     | 100-110       | 184.1         | 150.3 | 180 | 100           | 2 X M16    | 2400 |  |
| SHVSS110120                 | Fixed     | 110-120       | 192.9         | 155.4 | 180 | 100           | 2 X M16    | 2550 |  |
| SHVSS120130                 | Fixed     | 120-130       | 203.9         | 165.4 | 180 | 100           | 2 X M16    | 2650 |  |
| SHVSS130140                 | Fixed     | 130-140       | 215.5         | 174.5 | 180 | 140           | 2 X M16    | 2850 |  |
| SHVSS140150                 | Fixed     | 140-150       | 224.7         | 184.5 | 180 | 140           | 2 X M16    | 2950 |  |
| SHVSS150160                 | Fixed     | 150-160       | 234.1         | 194.5 | 180 | 140           | 2 X M16    | 3050 |  |
| SHVSS160170                 | Fixed     | 160-170       | 243.4         | 204.6 | 180 | 140           | 2 X M16    | 3150 |  |
| SHVSS170180                 | Fixed     | 170-180       | 254.1         | 214.6 | 180 | 180           | 2 X M16    | 3350 |  |
| SHVSS180190                 | Fixed     | 180-190       | 265.3         | 224.6 | 180 | 180           | 2 X M16    | 3500 |  |
| SHVSS190200                 | Fixed     | 190-200       | 274.7         | 234.6 | 180 | 180           | 2 X M16    | 3600 |  |

SINGLE HIGH VOLTAGE STAINLESS STEEL CABLE CLEATS

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