



Ground Clamp and Cable Unit

For use with Sculcon Junction Box, Model SC-47CC/CLMP



Model SC-47CC/CLMP

DESCRIPTION

The Scully SC-47CC/CLMP Clamp and Cable Unit is designed to drain static charges built up on vehicles, railcars and other metal liquid tank containers. The clamp unit is designed to be connected, via two wires, to the Scully Groundhog™ earthing verification system. When the clamp is attached to bare metal on the tank container, the system utilizes an intrinsically safe signal to verify that a proper static bond exists during liquid transfer operations.*

Static earthing is used to dissipate any static charges which can build up as a result of product flow or other movement. Some applications such as rail lines and pipelines may also have stray currents present. In these situations the rail or pipeline must be bonded to earth independently from the Scully system. Local codes should be consulted regarding wire gauges and number of conductors.

If the clamp is not properly attached to the tank vehicle, the system will not allow product to transfer. If at any time during the transfer process the clamp is disconnected, the system will send a signal to stop the product transfer.

The clamp and cable unit is connected to a heavy duty, weatherproof junction box. The junction box acts as a housing to connect the cable wires and the controller wiring. In the event of a drive-away, the cable pulls out of the junction box. This maintains vapor tight safety and prevents damage at the control monitor. Other systems without a junction box disconnect and may allow non-intrinsically safe signals within the liquid transfer environment during a drive-away accident.

FEATURES AND BENEFITS

- Verification of static earthing when properly connected to the trailer frame.
- Heavy-duty, weather-sealed aluminum junction box to house cable wiring.
- Intrinsically safe operation.
- The clamp and cable disconnects from the junction box during a drive-away accident, preventing damage to the control monitor and maintaining intrinsic safety.
- Spring-loaded clamp jaws with adjustable contact pins for a solid bond to the trailer frame.

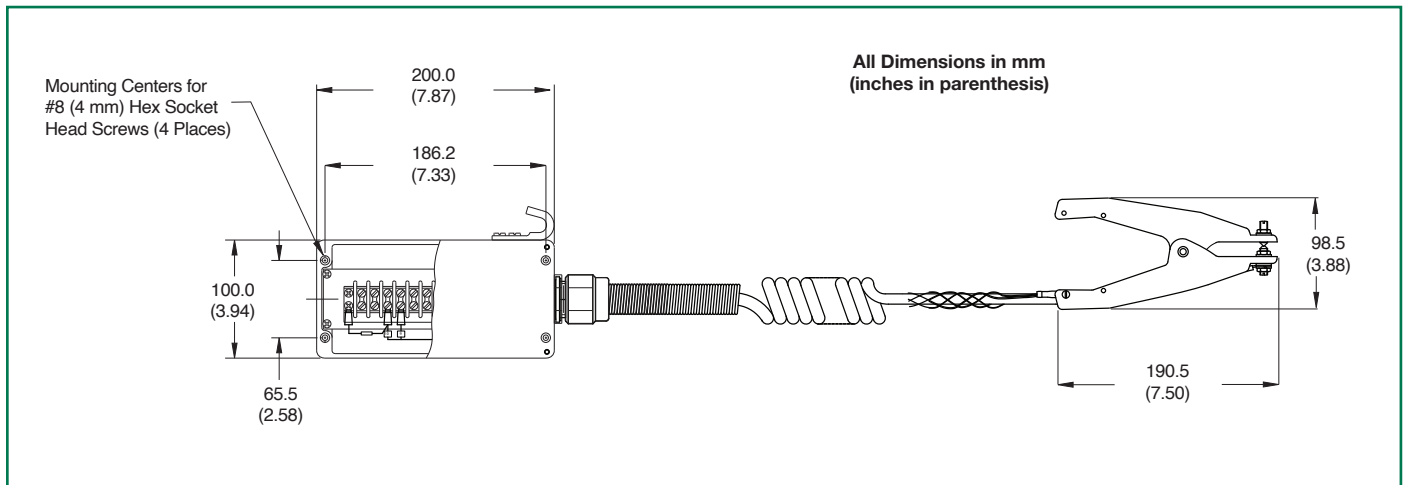
*WARNING

When used in conjunction with a Scully Groundhog, the clamp provides a resistance (non self-proving) verification system. Thus, attaching the clamp to a metallic object or to a vehicle, which already has a return path to earth,

could give a permissive indication through this alternate path, which may not include the vehicle. To ensure self-proving operation, the vehicle must be equipped with a Scully Groundbolt or Groundball.



For use with Sculcon Junction Box, Model SC-47CC/CLMP



TECHNICAL SPECIFICATIONS

Junction Box: Weather-sealed die-cast aluminum box. Stainless steel external hardware.

Clamp: Aluminum alloy, corrosion resistant. Stainless steel contact points.

Cable: Oil resistant, Philaprene 2-Jacketed
Coiled: 10 meter extended (32')
Straight: 6 meter (20')

Cable Strain Relief: Stainless Steel

Clamp Strain Relief: Stainless Steel

Approvals: These devices are compatible with IECEx/ATEX Intrinsically Safe systems as Simple Apparatus.

ORDERING INFORMATION

| Description | Part Number |
|---|-------------|
| SC-47CC/CLMP Sculcon Junction Box, Clamp and 10 meter, Coiled Cable | 08815NV |

REPLACEMENT PARTS

| | |
|---|-------|
| Terminal Strip, 12-position | 27647 |
| Strain Relief, 3/8" – for Grounding Cable | 32445 |
| Clamp and Cable Assembly, 10 meter, Coiled Cable | 31766 |
| Clamp and Cable Assembly, 6 meter, Straight Cable | 32665 |
| Strain Relief 90Deg 3/8" | 32425 |
| Replacement Clamp | 31778 |
| Sculcon Box Assy, General Purpose | 32319 |

Copyright © 2023 Scully Signal Company. Dynacheck, Dynamic Self-Checking, Dynamic Self-Testing, Faylsafe, IntelliCheck, Intellitrol, Load-Anywhere are registered trademarks of Scully Signal Company. All Rights Reserved. Specifications are subject to change without notice.

01-6A
June 2023



Scully Signal Company
800 272 8559
sales@scully.com
Wilmington, MA, USA

Scully Systems Europe NV
+32 (0) 15 56 00 70
sales@scully.be
Mechelen, Belgium

Scully UK Ltd
+44 (0) 1606 553805
sales@scullyuk.com
Windsford Cheshire, UK

Scully Systems India
+91 9821799566
salesindia@scully.com
Maharashtra, India

