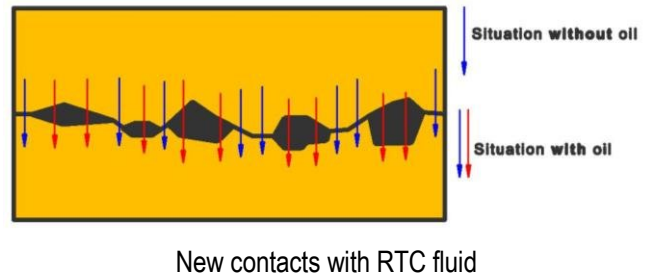
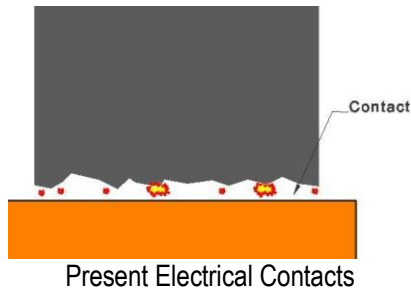


D598 Instructions for Fluid RTC



Introduction

RTC is a fluid that offers additional electrical conductivity between two connectors. Fluid RTC contains conductive particles bridging microscopic gaps between both connectors. Distances up to 0.1 mm can be bridged, at distances of 0.5 mm and above full isolation is achieved.

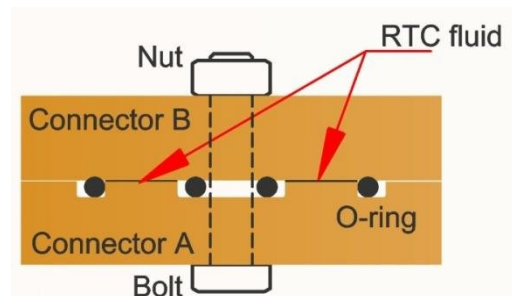
RTC offers additional conduction over the contact surfaces and thereby reduces the electrical resistance and heat generation. Resistance is typically reduced in range of 15-25%.

Further, the fluid prevents the entry of oxygen on the contacts and offers a long lasting solution without any corrosion on contacts. Since the conduction is based on fluid particles, electric wear of interacting peak contact points is fully prevented.

Application

The fluid has a strong capillary behavior and spreads easily over the contact surface. One or two drops on the surface offer sufficient conduction.

Orientation of contacts during assembly preferable in horizontal plane to reduce the effect of gravity forces. To ensure long lasting performance, it is advised to seal the fluid from the surrounding by e.g. rubber rings, kit or grease.



Schematic example
Mounting between circular O-rings

If the contact surface edges are properly sealed from the exterior, no further maintenance is needed. Annual tightening of bolts is no longer needed, since electrical wear is prevented. Inspection can be performed with IR cameras or by means of separate electrical resistance validation.

On next page two detailed examples show practical details.

Precautions

Fluid RTC is based on mineral oil with conductive particles. Please consider following precautions.

- Not for consumption
- No prolonged skin contact
- Discarded with standard mineral oils.
- Cleaning by means of soap

IMC Corporate Licensing BV

A. van Nesstraat 1L
2901 BH Capelle a/d IJssel
The Netherlands
Tel +31 (0) 10 - 2417 403

www . imcgroup . nl
info @ imcgroup . nl
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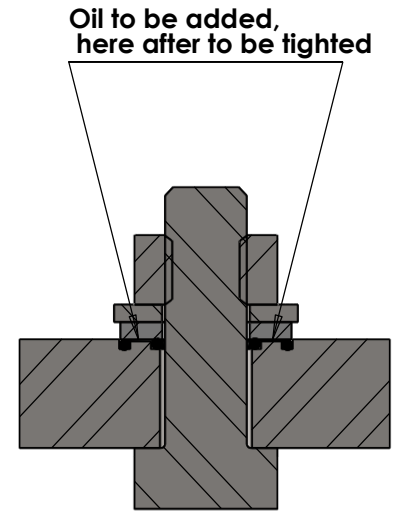
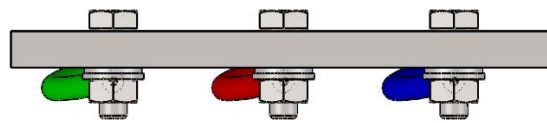


Mounting Instructions

A

1. Place the bolt through the strip
2. Place de O-rings in the grooves
3. Bring oil to the segment between de mounted O-rings
4. Place de connector over the bolt to the O-rings
5. Place the washer over the connector
6. Place the nut on to the bolt and tighten

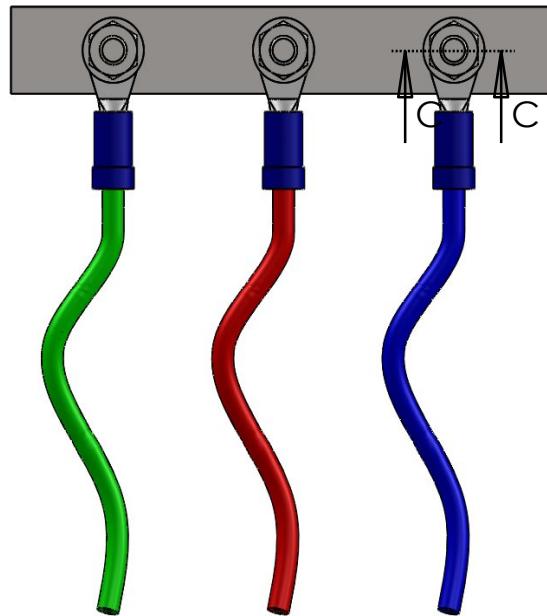
B



SECTION C-C

SCALE 3 : 1

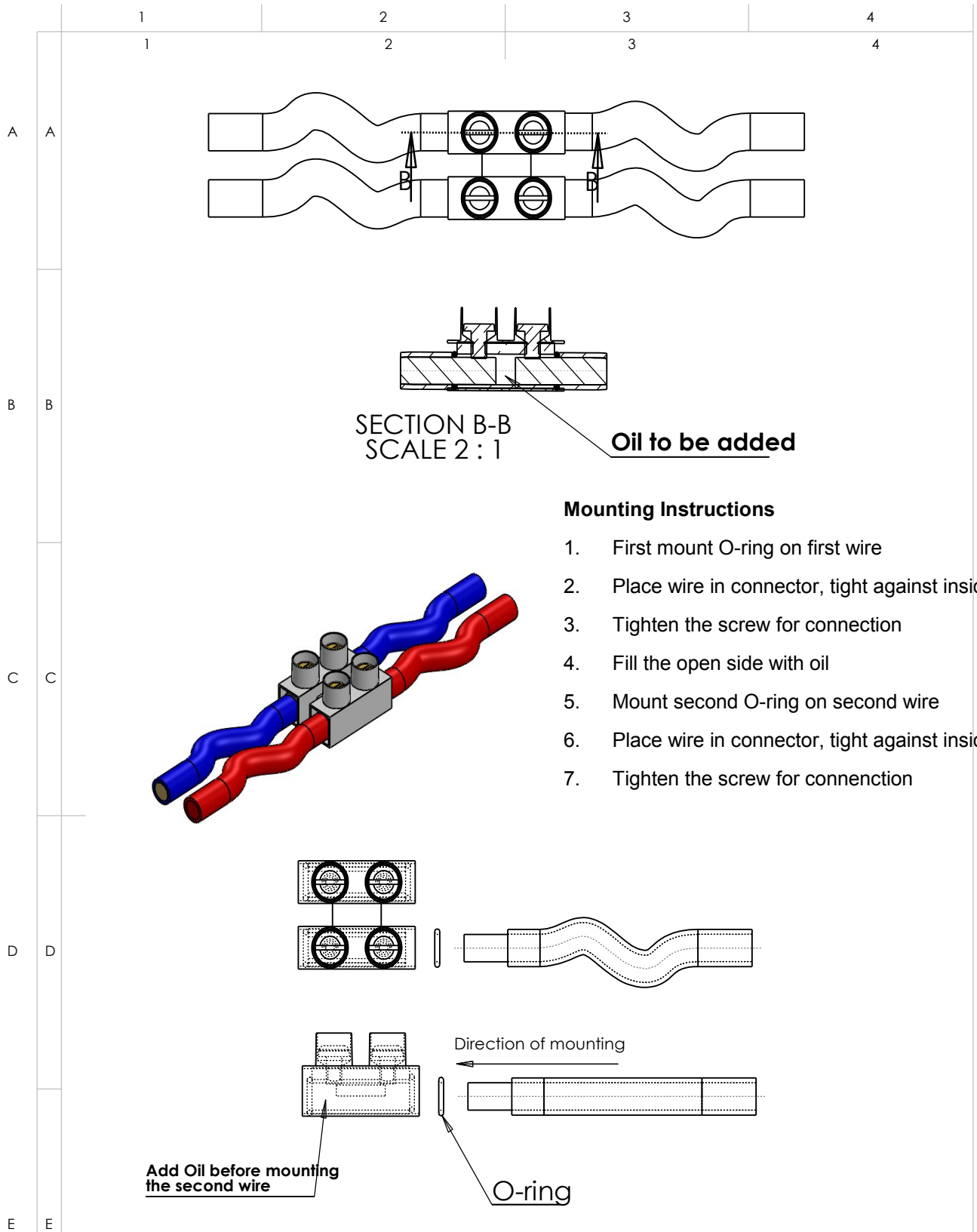
C



D

E

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| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS | | FINISH: | | DEBUR AND BREAK SHARP EDGES | | DO NOT SCALE DRAWING | | REVISION | |
| SURFACE FINISH: | | | | | | | | | |
| TOLERANCES: | | | | | | | | | |
| LINEAR: | | | | | | | | | |
| ANGULAR: | | | | | | | | | |
| DRAWN | | SIGNATURE | | DATE | | TITLE: | | | |
| CHK'D | | | | | | | | | |
| APPV'D | | | | | | | | | |
| MFG | | | | | | | | | |
| Q.A | | | | MATERIAL: | | DWG NO. | | A4 | |
| | | | | | | | | | |
| | | | | WEIGHT: | | SCALE:2:1 | | SHEET 2 OF 2 | |



Mounting Instructions

1. First mount O-ring on first wire
2. Place wire in connector, tight against inside
3. Tighten the screw for connection
4. Fill the open side with oil
5. Mount second O-ring on second wire
6. Place wire in connector, tight against inside
7. Tighten the screw for connenction

RTC fluid connector example 2

| | | | | | | | | | |
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| APPV'D | | | | | | | | | |
| MFG | | | | | | MATERIAL: | | DWG NO. | |
| Q.A | | | | | | | | A4 | |
| 1 | | | | WEIGHT: 2 | | SCALE:3:1 3 | | SHEET 2 OF 2 4 | |