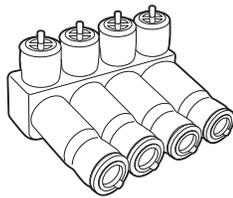


INSTALLATION INSTRUCTIONS

Submersible Set Screw Junction

For RAB 500 series

Homac®


RAB 45 C representation only.



WARNING: Risk of shock, disconnect power before installation



CAUTION: Product must be installed by a qualified electrician in accordance with national and local electrical codes.



CAUTION: Failure to follow these instructions may result in damage to the product and serious or fatal injury. All apparatus must be de-energized during installation or removal of part(s). Do not touch or move energized products. Excess distortion of the assembled product may result in its failure.

For more information on parts, installation ratings and compatibility, call the nearest ABB Installation Products Inc. office.

Contents:

- RAB
- Lubricant
- Instruction sheet

IMPORTANT:

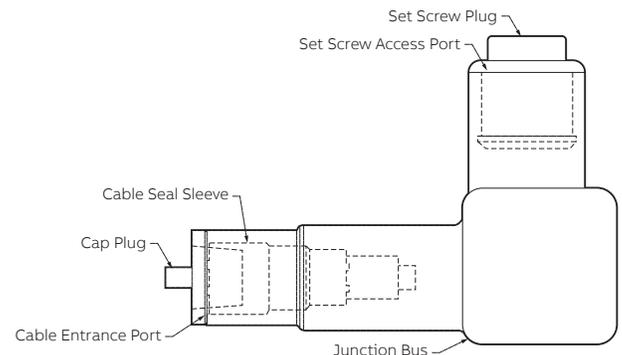
1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.


IMPORTANT

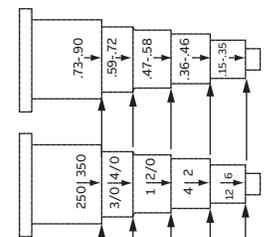
Read and understand all instructions and safety information before use. Be aware of proper usage and potential hazards.

Instructions:

1. Remove conductor cable seal sleeve from bus as shown.


Figure 1

2. Select and cut off the correct ring at tip of arrow on the sleeve per the following instructions: Cut sleeve straight across the end of the ring that is to be used. Use the conductor port without sleeve for wire sizes from 400-500 kcmil.



Cut here for 250 to 350MCM conductor or 0.73" to 0.90" insulation diameters.
 Cut here for 3/0 to 4/0 conductor or 0.59" to 0.72" insulation diameters.
 Cut here for #1 to 2/0 conductor or 0.47" to 0.58" insulation diameters.
 Cut here for #4 to #2 conductor or 0.36" to 0.46" insulation diameters.
 Cut here for #12 to #6 conductor or 0.15" to 0.35" insulation diameters.

Figure 2

3. Wipe the end of the conductor insulation clean and apply silicone lubricant to the conductor insulation.
4. Slide the collar end of the sleeve on to the cable so that 4" of the insulation is showing.
5. Strip insulation from conductor. Use a strip length of 1³/₈" as imprinted on the bus cover.
6. Wire brush the conductor to break up oxides on the conductor surface.
7. Back set screw out to allow the necessary clearance for the conductor.
8. Install conductor into conductor port of the bus until conductor hits the bottom of the port. When the conductor has bottomed out, the sleeve tip should be even with the end of the port. This indicates full cable insertion.
9. Torque set screws to:

Conductor size - AWG/MCM	Set screw torque
Copper or aluminum	Inch pounds
#12 - 1/0	110 - 120
2/0 - 4/0	200 - 250
250 - 350	300 - 400
400 - 500	360 - 500

Note: Product must be installed in accordance with applicable national and local electrical codes.

10. Install set screw plug.
11. Apply silicone lubricant to the outside of the sleeve on the ring marked 3/0-4/0. If 3/0-4/0 ring has been removed, apply silicone lubricant to the 250-350 ring.
12. Slide sleeve into the port so that the sleeve collar is flush against the end of the port.
13. Repeat for each conductor port.

Warranty: tnb.abb.com/ecpwarranty

ABB Installation Products Inc.
 Memphis, Tennessee
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 USA

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