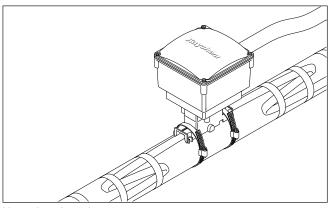
# Raychem

# AMG-BC-III

## AutoMatrix™ Power Connection Kit

# **Installation Instructions**



Hazardous Locations



Class I, Div. 2, Groups B, C, D Class II, Div. 2, Groups F, G Class III, Div. 2



TYPE 4X

Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups F, G Class III, Div. 2

# Description

The AMG-BC-III is a copper free aluminum (maximum 4/10 of 1% copper) NEMA  $4X^{(1)}$  rated power connection kit for single or dual heating cable entry. Heating cables may be powered from either one or two circuits.

The kit contains materials for one power connection.

### **Tools Required**

- Screwdriver Needle-nose pliers
- Utility knife Adjustable pliers
- Wire cutters
- Heat gun or mini-torch
- 1/4" nut driver 3/8" nut driver Crimp tool

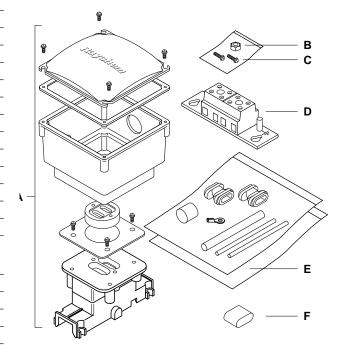
### **Additional Materials Required**

- Pipe straps
- GT-66 tape<sup>(3)</sup>. Installation temp. above 40° F
- Grommets(2)
- GS-54 tape<sup>(3)</sup> Installation temp. above -40° F

<sup>(1)</sup>This type 4X enclosure is intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose-directed water. It is not suitable for use where subject to attack by alkalis.

#### Kit Contents

| Kit Contents |        |                                   |          |
|--------------|--------|-----------------------------------|----------|
| Item         | Qty    | Description                       | Part No. |
| Α            | 1      | Connection box assembly           | 655335   |
|              | 1      | Connection box lid                |          |
|              | 1      | Lid gasket                        |          |
|              | 1      | Connection box                    |          |
|              | 1      | Pressure plate                    |          |
|              | 1      | Base gasket                       |          |
|              | 1      | Connection base                   |          |
|              | 10     | Connection box screws             |          |
| В            | 1      | Grounding locknut (green)         | 990335   |
| С            | 2      | Pressure plate screws (1" SS)     | 730141   |
| D            | 1      | Terminal block assembly           | 477219   |
| E            | 2      | Core insulator kit                | 463319   |
|              | 1      | Red grommet                       |          |
|              | 1<br>1 | Blue grommet<br>Ring terminal     |          |
|              | 1      | Green/yellow heat-shrinkable tube |          |
|              | 1      | Clear yellow heat-shrinkable tube |          |
|              | 2      | Black heat-shrinkable tubes       |          |
| F            | 1      | Blank grommet                     | 886803   |



⚠ WARNING: This component is an electrical device which must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all the installation instructions.

- To minimize the danger of fire from sustained electrical arcing if the heat-ing cable is damaged or improperly installed use a ground fault protection device (GFPD). Arcing may not be stopped by conventional circuit breakers.
- Component approvals and performance are based on the use of specified parts only. Do not use substitute parts or vinyl electrical tape.
- The black heating cable core and fibers are conductive and can short. They must be properly insulated and kept
- · Damaged bus wires can overheat or short. Do not break bus wire strands when scoring the jacket or core.
- Heat damaged components can short. Use a heat gun or a torch with a soft,

yellow, low-heat flame, not a blue focused flame. Keep the flame moving to avoid overheating, blistering, or charring the heat-shrinkable tubes. Avoid heating other components. Replace any damaged parts.

⚠ WARNING: Overheating heatshrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning.
Consult MSDS RAY/3122 for further information.

<sup>(2)</sup>May be required (see step 1).

<sup>(3)</sup> Required for CSA Class I, II, III Division 2 Certification (see step 12)

