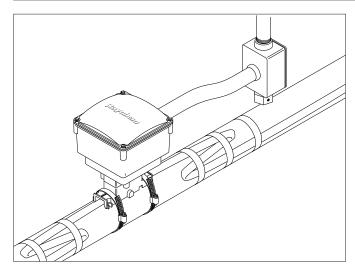


Raychem AMG-BC-III

AUTOMATRIX POWER CONNECTION KIT INSTALLATION INSTRUCTIONS



APPROVALS

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

KIT CONTENTS

ltem	Qty	Description	Part No		
Ā	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	Ring terminal			
1	Green/yellow heat-shrinkable tube				
1	Clear yellow heat-shrinkable tube				
2	Black heat-shrinkable tubes				
F	1	Blank grommet	886803		

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

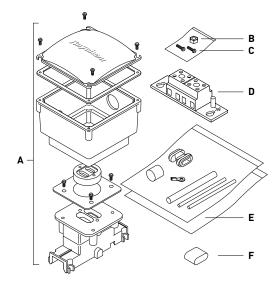
- Screwdriver
- Wire cutters
- Adjustable pliers
- 1/4 in nut driver
- Crimp tool
- Needle-nose pliers
- Utility knife
- Heat gun or mini-torch
- 3/8 in nut driver

ADDITIONAL MATERIALS REQUIRED

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

 $^{(1)}$ 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.

^[3] Required for CSA Class I, II, III Division 2 Certification (see step 12)



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 heating cable is damaged or improperly installed, use a ground fault protection device (GFPD). Arcing may not be stopped by convention-
- · 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 dry.
- 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.

Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY/3122 for further information.

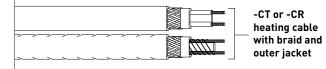
CHEMTREC 24-hour emergency telephone: (800) 424-9300

Non-emergency health and safety information: (800) 545-6258.

⁽²⁾ May be required (see step 1).

Heating cable types

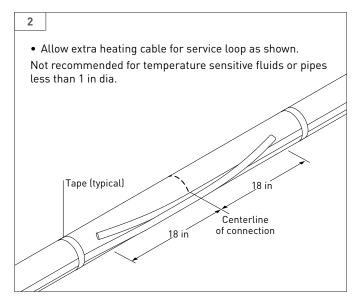
- Identify heating cable type.
- Select correct grommet from chart on right.

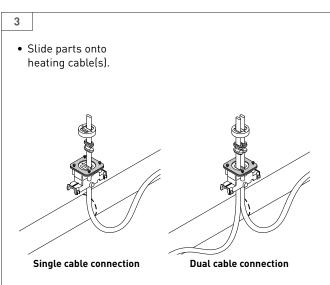


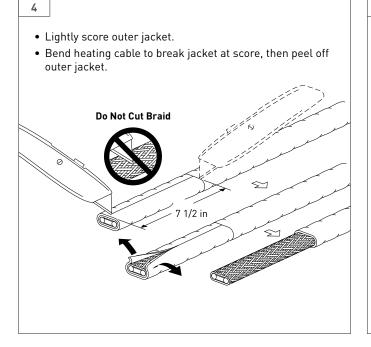
Heating Cable	Туре	Grommet (10/pack)	Part No.
BTV, QTVR, XTV	-CT or -CR	RED	725157
KTV	-CT	P*	700823
LBTV**	-CT or -CR	K*	222724

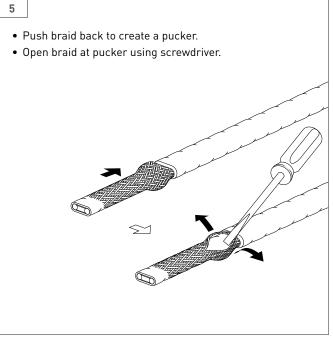
- * Order separately
- ** Requires terminal block assembly PN477219 (order separately)

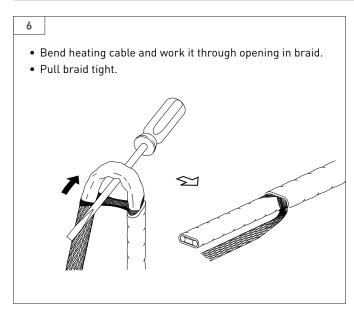
⚠ WARNING: Use of the wrong grommet can result in leaks, cracked components, shock or fire, and will invalidate approvals and certifications.

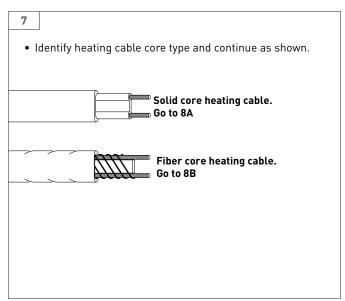


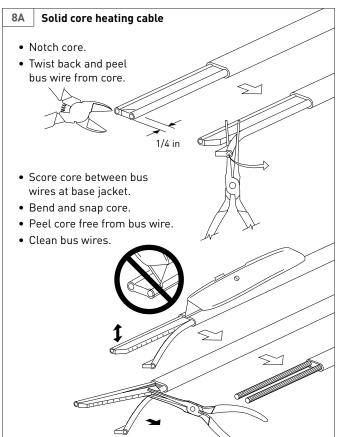


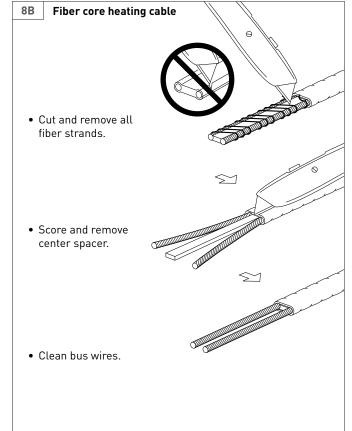


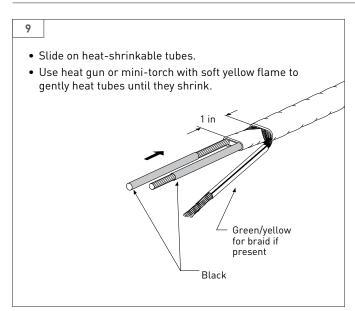


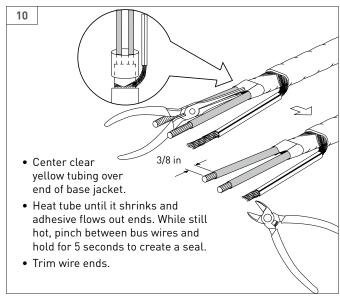




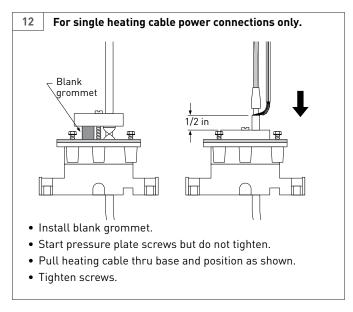


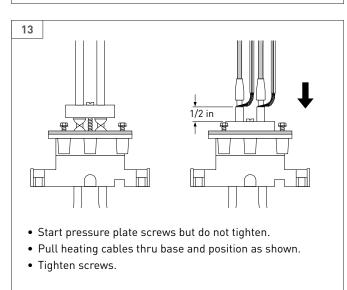


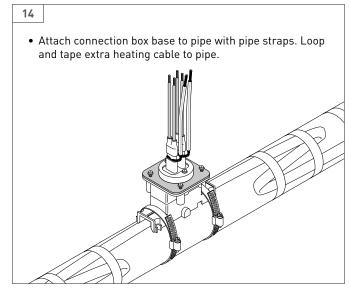


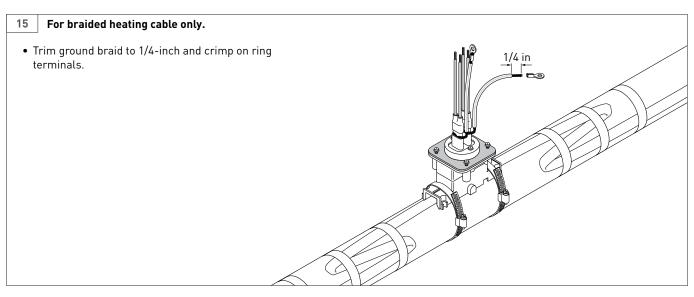


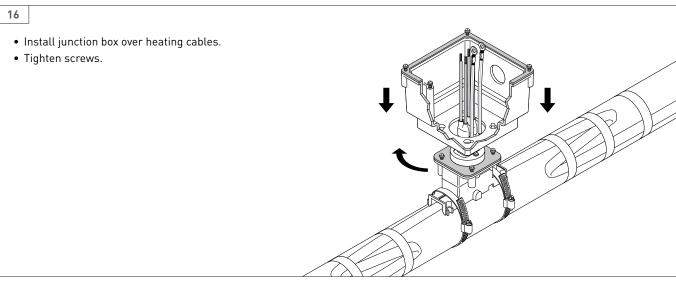


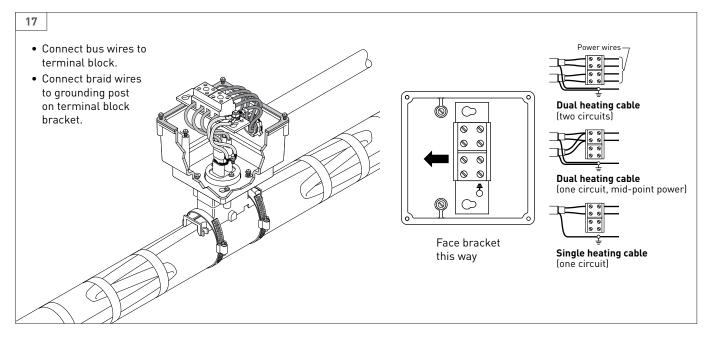






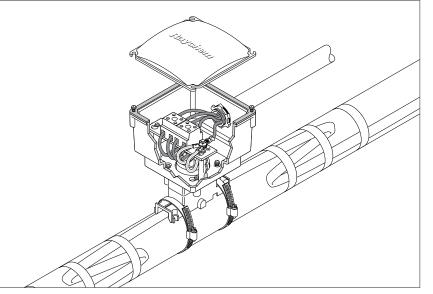


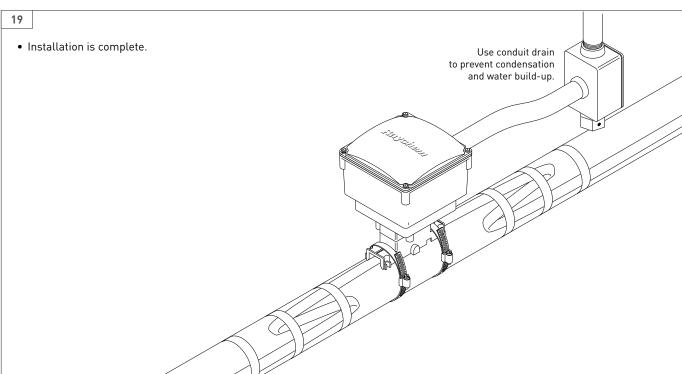






- Position terminal block bracket into box. Slide into place and tighten screws.
- Place lid onto box and tighten screws.







WWW.THERMAL.PENTAIR.COM

NORTH AMERICA

Tel: +1.800.545.6258 Fax: +1.800.527.5703 Tel: +1.650.216.1526 Fax: +1.650.474.7711 thermal.info@pentair.com

EUROPE, MIDDLE EAST, AFRICA

Tel: +32.16.213.511 Fax: +32.16.213.603 thermal.info@pentair.com

ASIA PACIFIC

Tel: +86.21.2412.1688 Fax: +86.21.5426.2917 cn.thermal.info@pentair.com

LATIN AMERICA

Tel: +55.11.2588.1400 Fax: +55.11.2588.1410 thermal.info@pentair.com

Pentair and AutoMatrix are owned by Pentair or its global affiliates. All other trademarks are the property of their respective owners. Pentair reserves the right to change specifications without prior notice.

© 1994-2013 Pentair. PN 605327