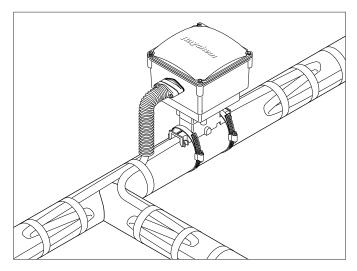


# Raychem AMG-BY-III

## AUTOMATRIX TEE 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

#### **DESCRIPTION**

The AMG-BY-III is a copper free aluminum (maximum 4/10 of 1% copper) NEMA 4X<sup>(1)</sup> rated tee connection kit.

The kit contains materials for one tee 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<sup>[2]</sup>
- GT-66 tape <sup>(3)</sup>. Installation temp. above 40° F
- GS-54 tape (3). Installation temp. above -40° F
- Terminal block assembly PN477219 is required for LBTV cable.

<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.

## 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

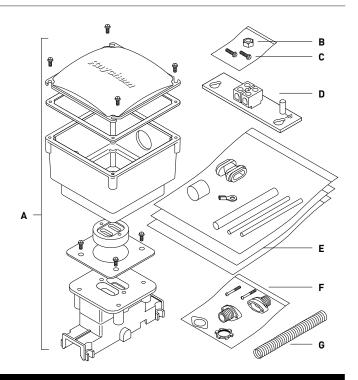
Non-emergency health and safety information: (800) 545-6258.

<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)

#### **KIT CONTENTS**

Item	Qty	Description	Part No
A	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
C D	2	Pressure plate screws (1 in SS)	730141
D	1	Terminal block assembly	633473
E	3	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	Gland kit	526815
	1	Gland (with inserts)	
	1	Gland (w/o inserts)	
	1	Locknut	
	1	Gland gasket	
	2	Gland screws	
G	1	Flex tube	367975



## Heating cable types

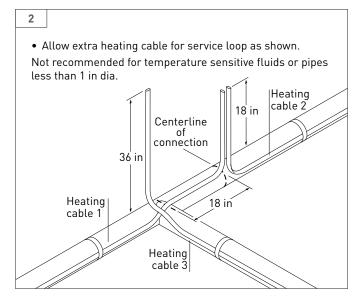
- Identify heating cable type.
- Select correct grommet from chart on right.

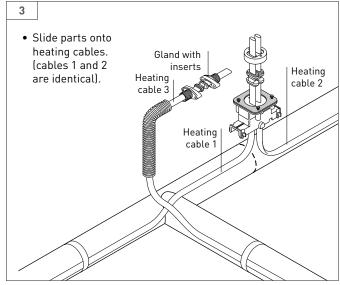
-CT or -CR heating cable with braid and outer jacket

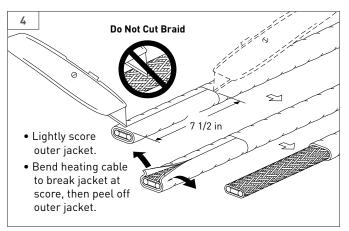
Heating Cable	Туре	(10/pack)	Part No.
BTV, QTVR, XTV	-CT or -CR	RED	725157
KTV	-CT	P*	700823
LBTV**	-CT or -CR	K*	222724

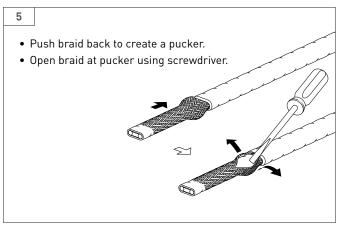
- \* Order separately
- \*\* Requires terminal block assembly PN477219 (order separately)

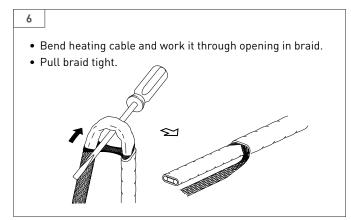
⚠ WARNING: Use of the wrong grommet can result in leaks, cracked components, shock or fire, and will invalidate approvals and certifications.

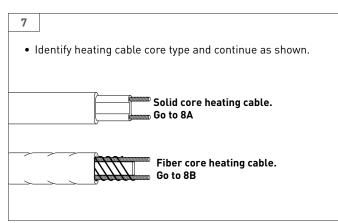


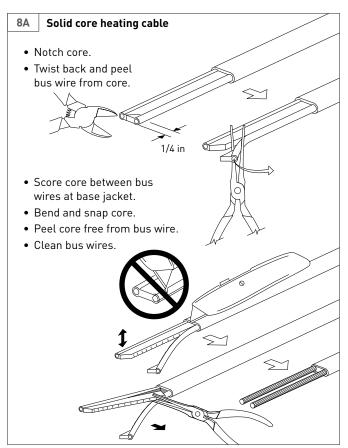


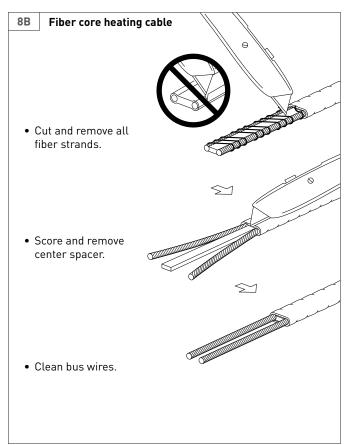


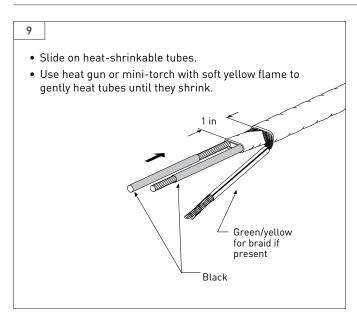


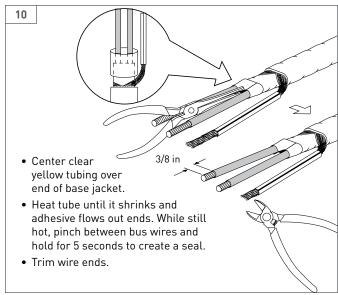




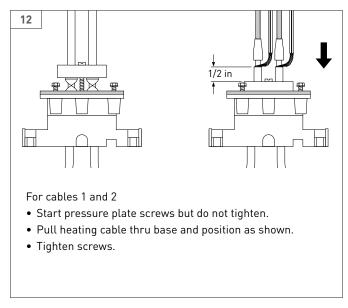


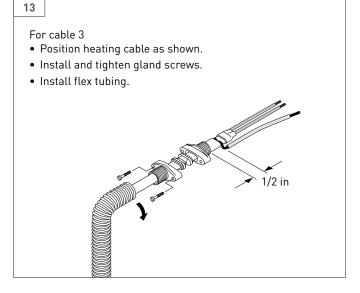


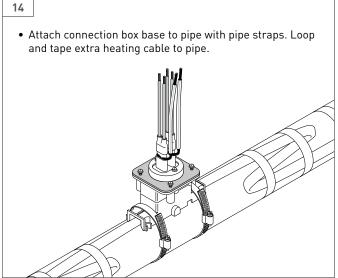


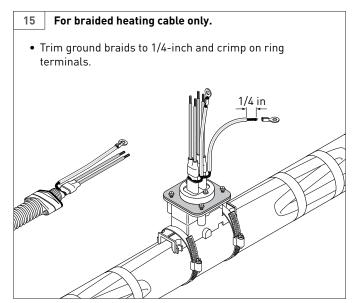


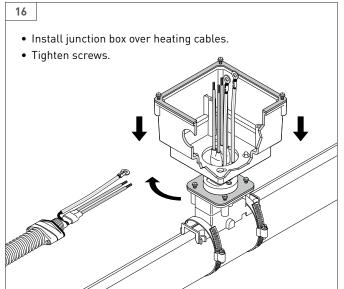


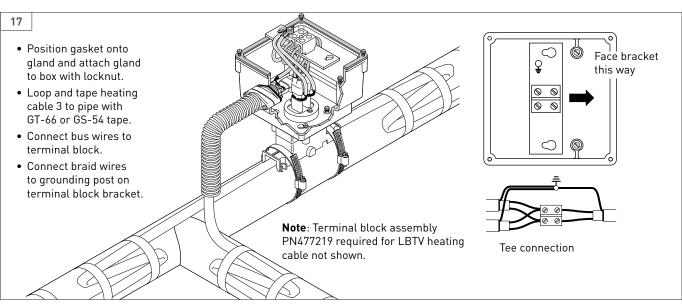


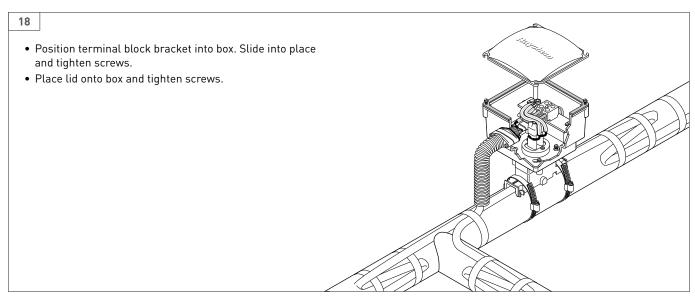


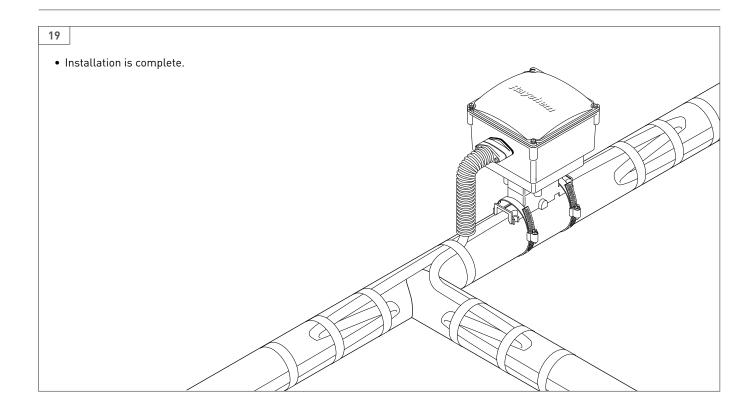














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