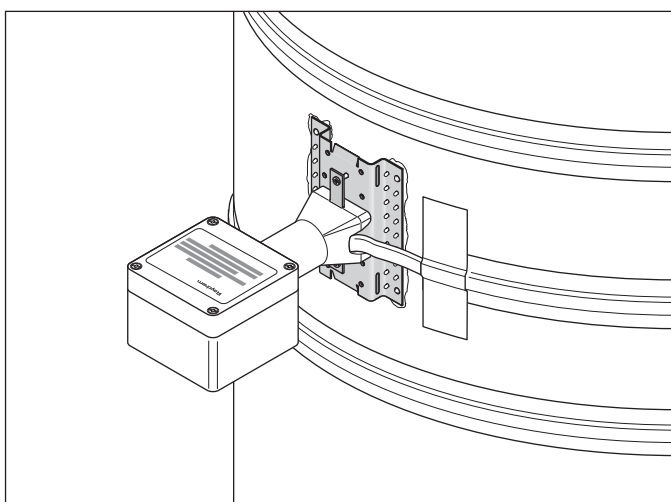


SB-100-T

Stainless Steel Tank Adapter Kit Installation Instructions



APPROVALS

The Raychem SB-100-T is FM approved and CSA Certified for ordinary and hazardous locations when used as described above.

KIT CONTENTS

Item	Qty	Description
A	1	Stainless steel mounting plate
B	2	Pipe straps
C	1	Tube of silicone adhesive (Dow Corning 732)*
D	1	Connection bar
E	2	Glass tape rolls
F	4	Mounting screws - 1 1/8 in (30 mm) long

*Note: Do not use silicone adhesive after date indicated on end of box.

DESCRIPTION

This kit contains materials for attaching one Raychem heat trace connection kit to a tank. The components which can be mounted with this kit include the JBS-100 power connection, JBM-100 power connection/splice/tees, T-100 splice/tees, all E-100 end seals, AutoMatrix AMG-BC-III, AMG-BS-III, and AMG-BY-III.

Minimum Installation Temperature: 40°F (5°C)

Maximum Storage Temperature: 90°F (32°C)

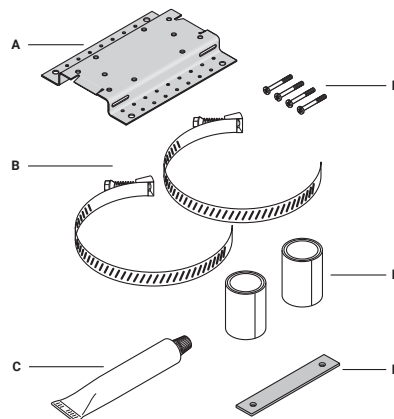
For technical support call Chemelex at (800) 545-6258.

TOOLS REQUIRED

- Flat blade screwdriver
- Cleaning solvent, rags
- Diagonal cutters (for JBM-100 and T-100)

ADDITIONAL MATERIALS REQUIRED

- AT-180 tape (for attaching Raychem heating cable to tank)
- Appropriate Raychem connection kit required



⚠ CAUTION:

Health Hazard: Uncured sealant can irritate eyes, nose and throat. Read warnings on tube. Consult MSDS VEN/0005 for additional information.

Some cleaning solvents can be hazardous. Use proper equipment and comply with all local safety procedures. For additional information, consult your supervisor.

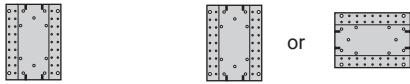
CHEMTREC 24-hour emergency telephone:
(800) 424-9300.

Non-emergency health and safety information:
(650) 361-4907.

1 Pre-installation Steps

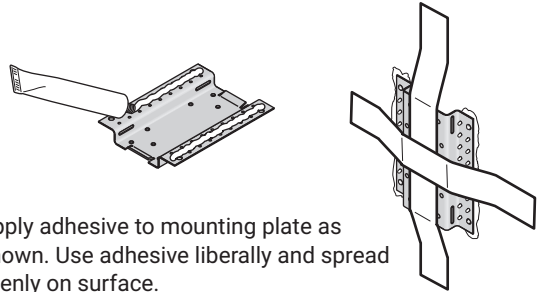
Positioning the mounting plate:

- For tanks smaller than 8' diameter the mounting plate must be installed vertically.
- For tanks greater than 8' diameter the mounting plate may be installed horizontally or vertically.



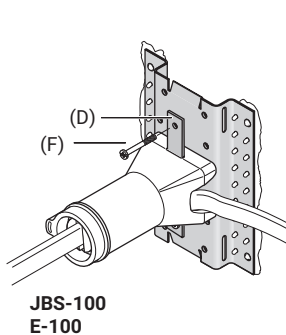
- Select a convenient location for installation. Allow at least two feet (1/2 meter) of loose heating cable at mounting location.
- Clean mounting surface and plate thoroughly so they are free of oil, grease, loose dirt, scale or paint.

2

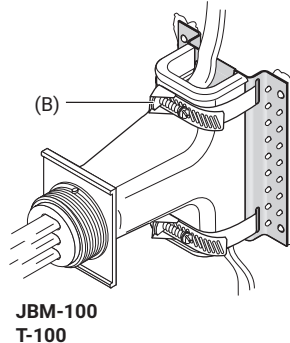


- Apply adhesive to mounting plate as shown. Use adhesive liberally and spread evenly on surface.
- Orient mounting plate for convenient heater entry—see Step 1 and 3 as a guide. Place plate onto surface—push down so adhesive flows through holes on edges of plate. Do not wipe off excess adhesive.
- To secure mounting plate, apply glass tape to tank and plate as shown. Allow a minimum of 24 hours for curing. Note: Lower temperatures may take longer to cure.

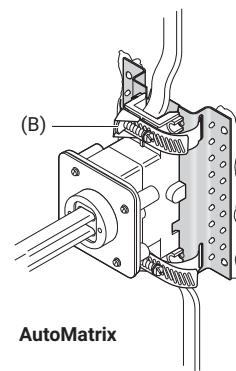
3



- For JBS-100 and E-100 connections, fasten stand to plate using connection bar (D) and two screws (F).



- For JBM-100 and T-100 connections, fasten stand to plate using two pipe straps (B).
- Trim straps using cutters.

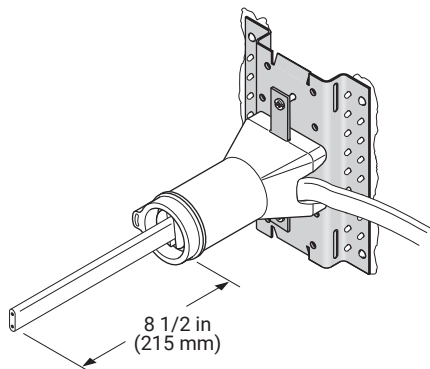


- For AutoMatrix kits, fasten stand to plate two pipe straps (B).
- Trim straps using cutters.

4

Note: Generic cable prep instruction—JBS-100 used in this example. For other kits follow same steps.

- Measure and cut heating cable at 8 1/2 in (215 mm).

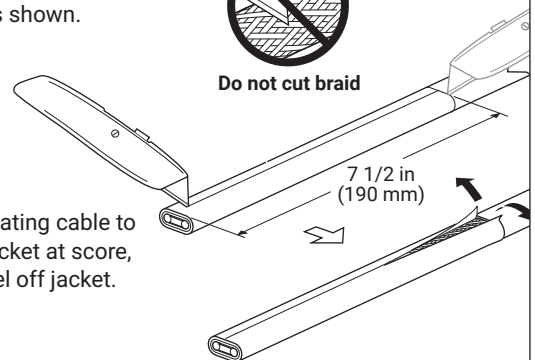


5

- Lightly score outer jacket around and down as shown.



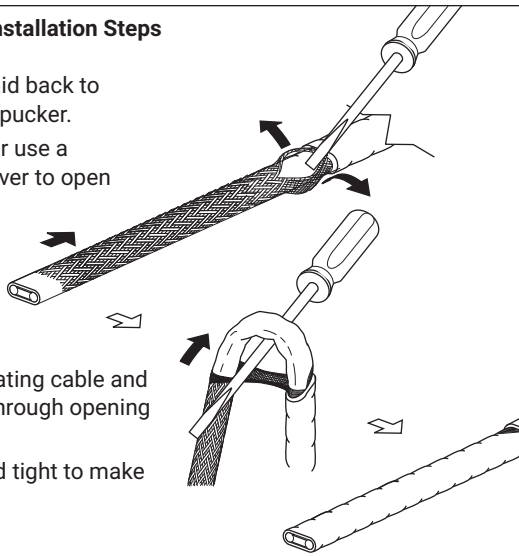
- Bend heating cable to break jacket at score, then peel off jacket.



6

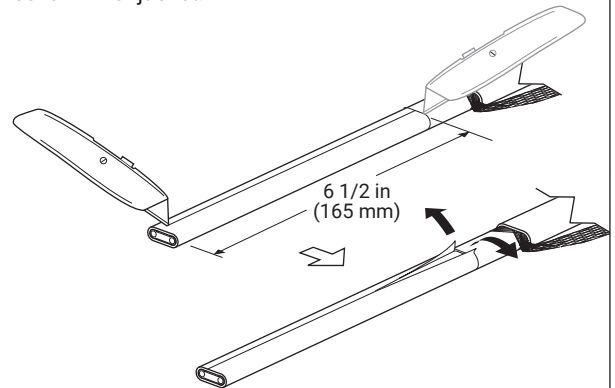
Pre-installation Steps

- Push braid back to create a pucker.
- At pucker use a screwdriver to open braid.
- Bend heating cable and work it through opening in braid.
- Pull braid tight to make pigtail.



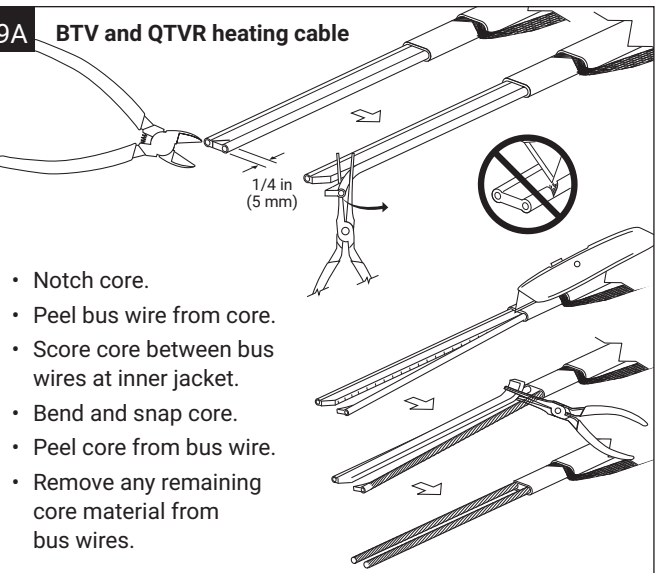
7

- Lightly score inner jacket around and down as shown.
- Peel off inner jacket.



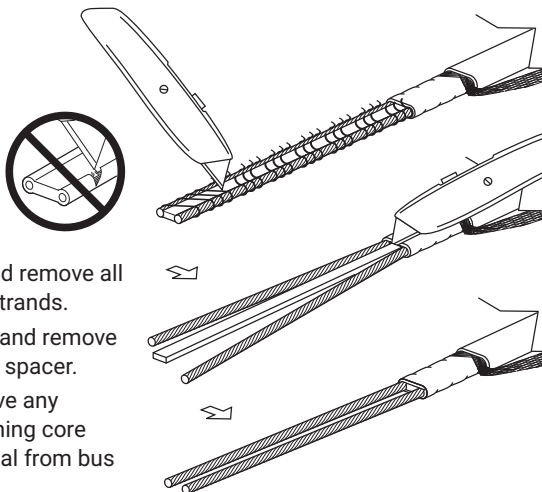
8

- Determine heating cable type and continue as shown.

BTV-CR, BTV-CT and QTVR-CT heating cable**BTV and QTVR****Go to Step 9A****XTVR-CT heating cable****XTV(R)****Go to Step 9B****HTV-CT heating cable****HTV****Go to Step 9C****9A BTV and QTVR heating cable**

- Notch core.
- Peel bus wire from core.
- Score core between bus wires at inner jacket.
- Bend and snap core.
- Peel core from bus wire.
- Remove any remaining core material from bus wires.

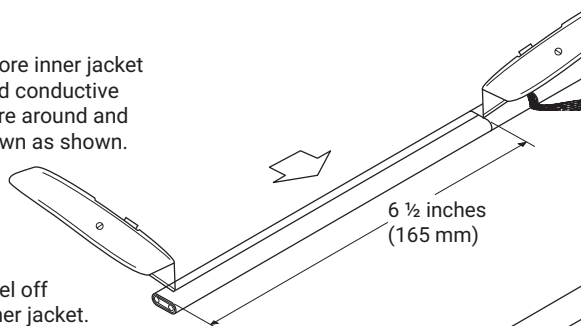
9B

XTVR heating cable

- Cut and remove all fiber strands.
- Score and remove center spacer.
- Remove any remaining core material from bus wires.

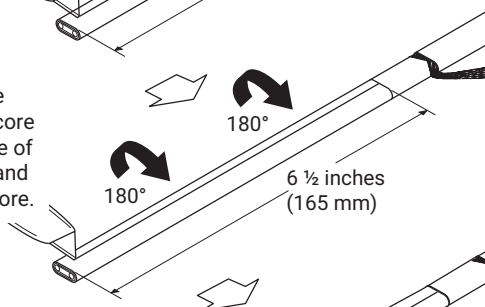
9C HTV heating cable

- Score inner jacket and conductive core around and down as shown.

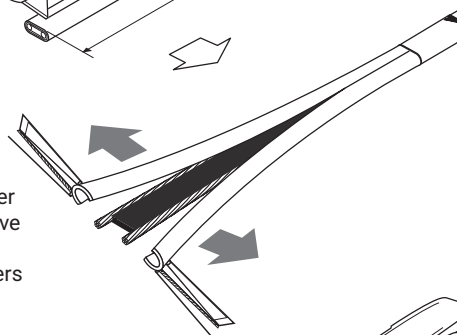


- Peel off inner jacket.

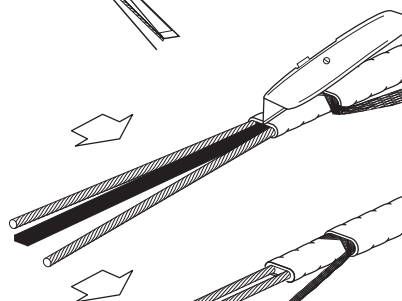
- Flip the cable 180° and score the other side of inner jacket and conductive core.



- Remove the inner jacket, conductive core by using needle-nose pliers as shown.



- Score and remove center insulation.

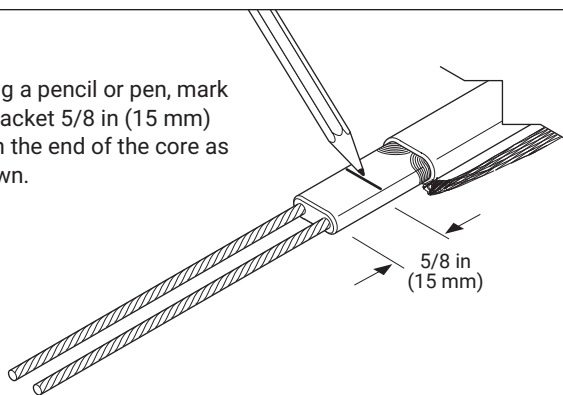


- Remove any remaining material from bus wires.
- Pull braid tight to make pigtail.



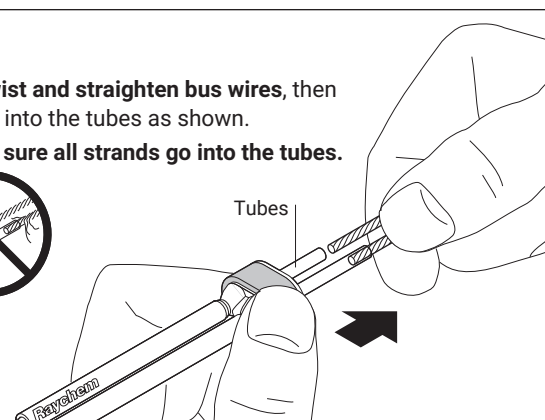
10

- Using a pencil or pen, mark the jacket 5/8 in (15 mm) from the end of the core as shown.



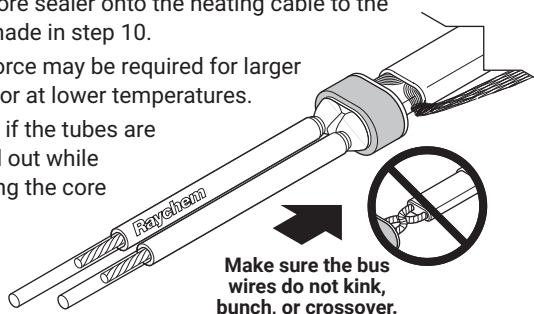
11

- Re-twist and straighten bus wires, then insert into the tubes as shown.
- Make sure all strands go into the tubes.



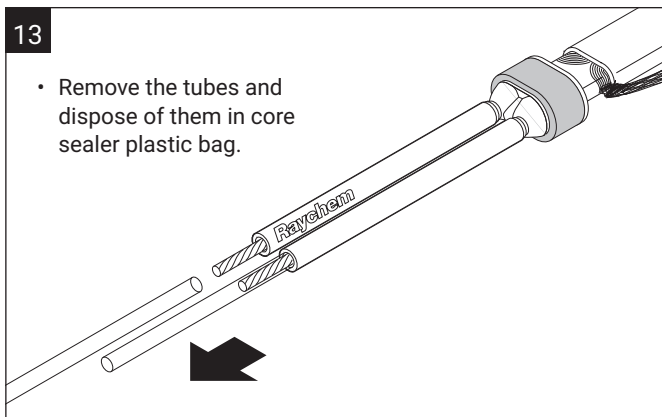
12

- Push core sealer onto the heating cable to the mark made in step 10.
- Extra force may be required for larger cables or at lower temperatures.
- It is OK if the tubes are pushed out while installing the core sealer.



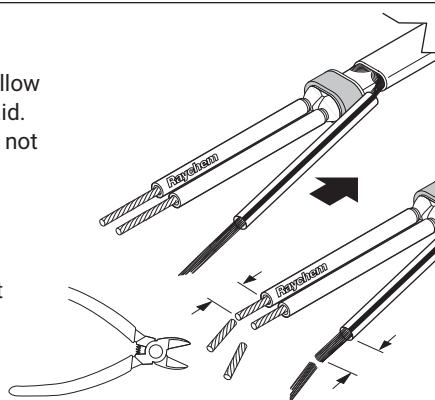
13

- Remove the tubes and dispose of them in core sealer plastic bag.



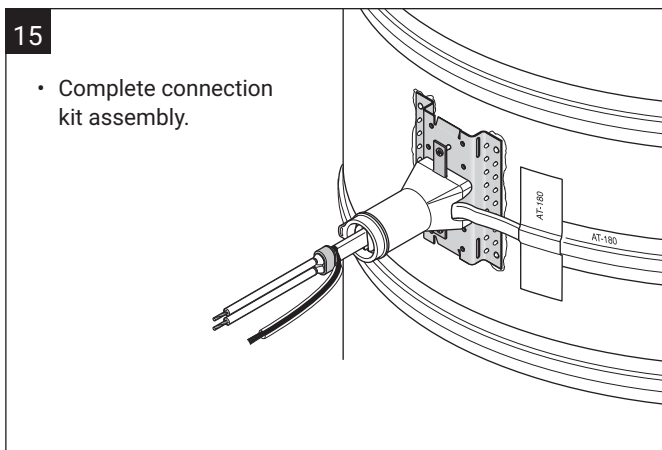
14

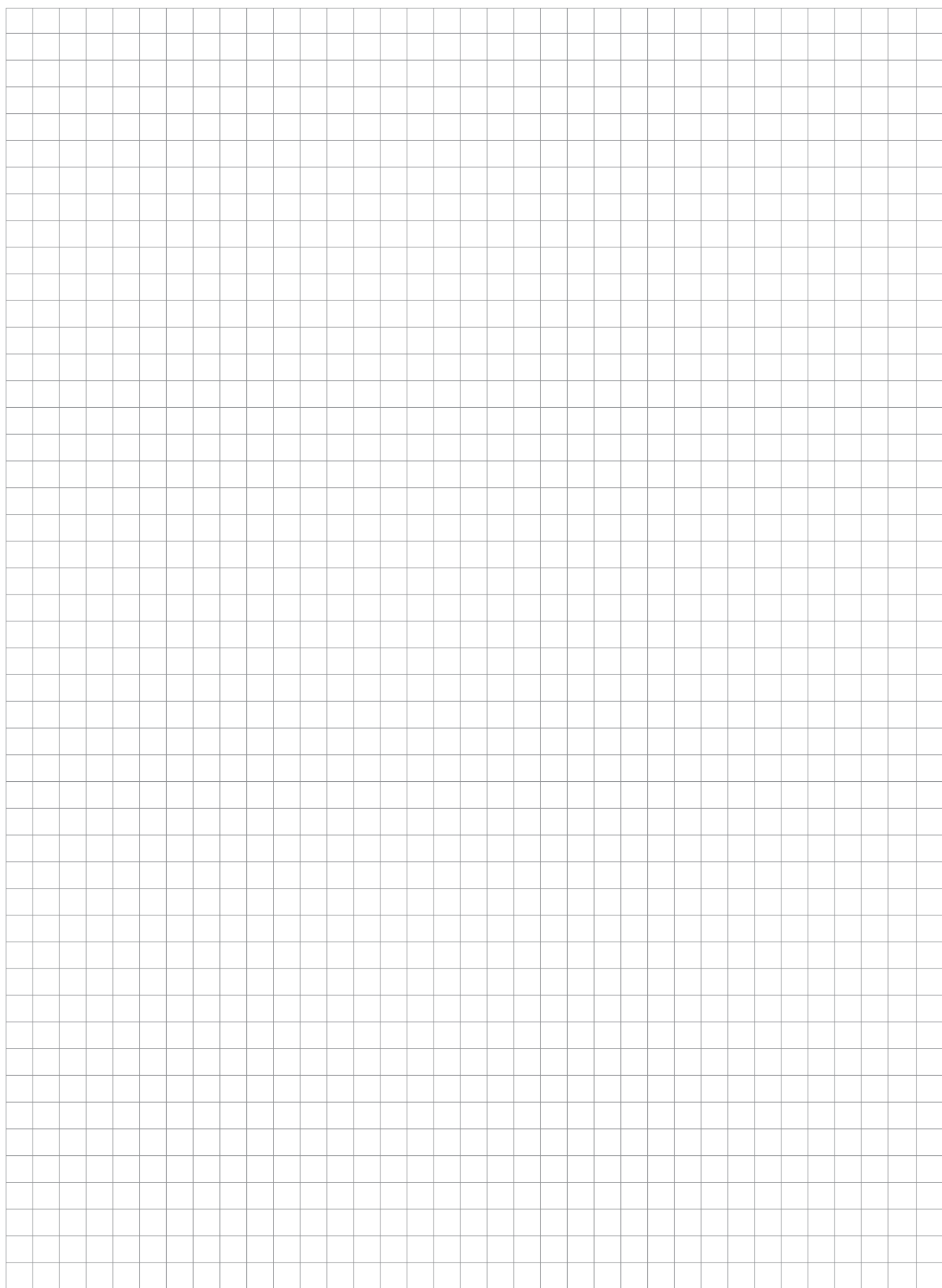
- Slip the green/yellow tube onto the braid. Heat-shrinking is not required.
- Trim bus wires and braid to length specified on connection kit instructions.

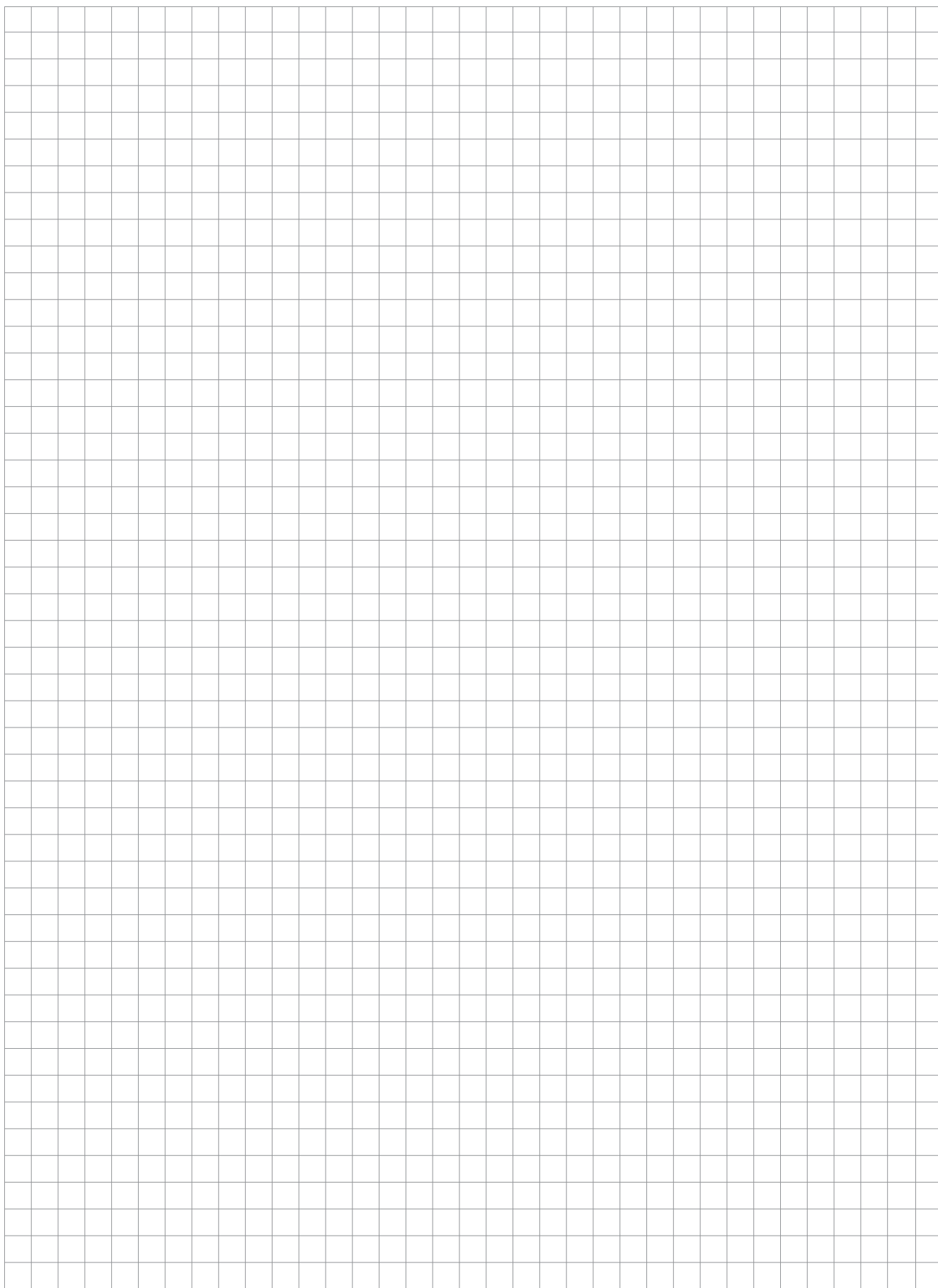


15

- Complete connection kit assembly.







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