COMMSCOPE®

T2C

INSTALLATION INSTRUCTION

TC-519-IP
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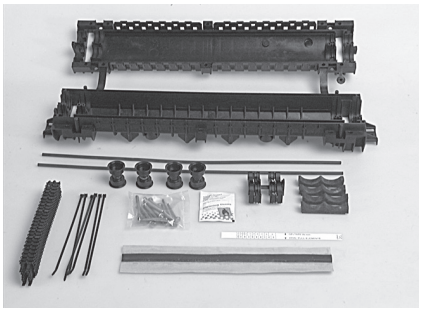
www.commscope.com

Cold applied re-usable closure system



Kit content

- Central part : top and bottom delivered as one part
- Gel profiles : 4 pcs
- O-ring seal : 2 pcs
- 4-out cable separator : 1 pc (large sizes only)
- Plugs for unused cable ports
- Axial pull tapes + tie wraps
- Gel sealing tape
- Cleaning tissue
- Bolts and washers
- Measuring tape
- Installation instruction

Safety rules

Check manhole for presence of gas and follow locally prescribed precautions.

Installation tools

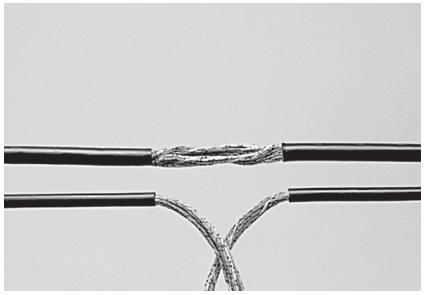
- Cable marking pen
- Pair of scissors
- Screw driver
- Wrench
- Cutting pliers
- PVC tape

Re-entry kit

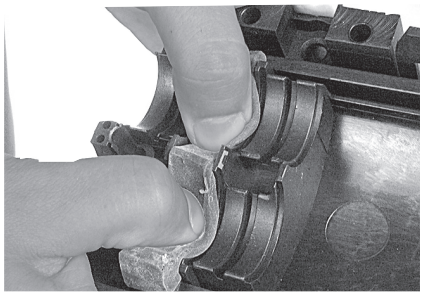
A re-entry kit can ordered separately to add or replace cables.
CommScope reference: e.g.T2C-68-RE.
The re-entry kit includes gel sealing tapes, axial pull tapes, measuring tape and tie wraps.

Size selection chart (dimensions:mm)

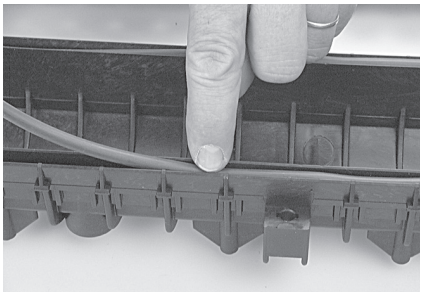
Description	Max.splice diam.	Max.sheath opening	Cable configurations	Cables IN max.diam.	Cables OUT max.diam.	Typical splice capacity
T2C 100-450-2/4	100	450	2 in - 4 out	2 x 40	4 x 40	300p



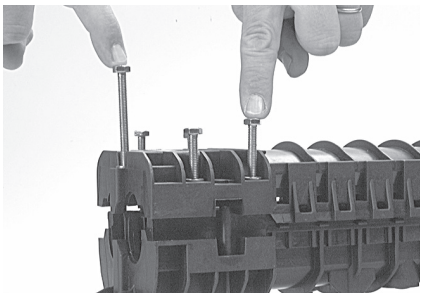
1 Remove cable jacket and install shield continuity accessories if applicable, following locally prescribed jointing techniques.



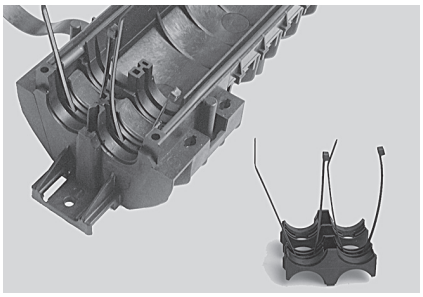
2 Insert the 4 gel profiles in the foreseen cavities at each end of both half shells. Push the profiles to secure in place.



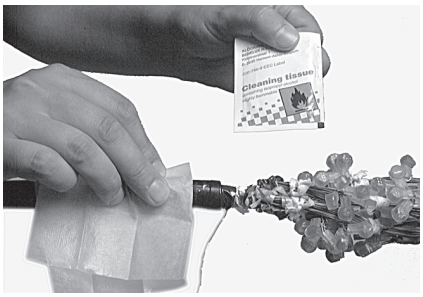
3 Insert the longitudinal O-ring seals in the grooves of the bottom half shell.



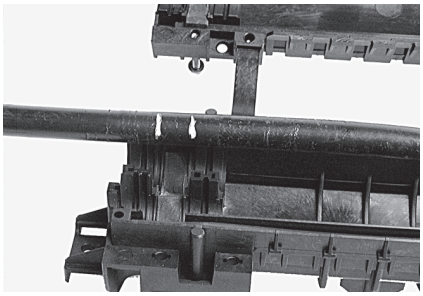
4 Position the bolts and washers and turn a few times to secure them in the top shell of the central part. The long bolts need to be positioned in the middle at both ends of the top shell.



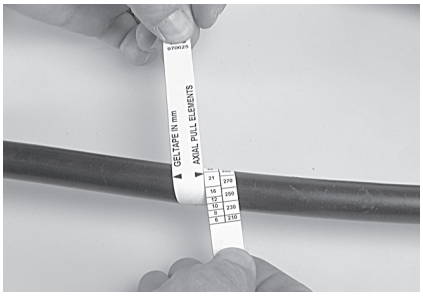
5 Insert the tie wraps in the cavities of the bottom part (2 at each end) and the 4-out cable separator. Note: The tie wraps will keep the cables and plugs in place during installation.



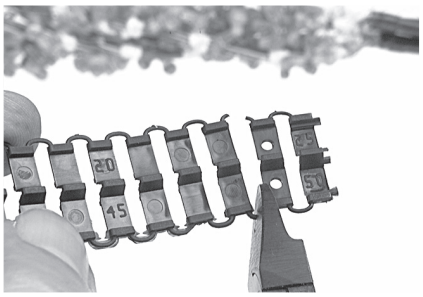
6 Clean the cable jacket of the cables using the delivered cleaning tissue.



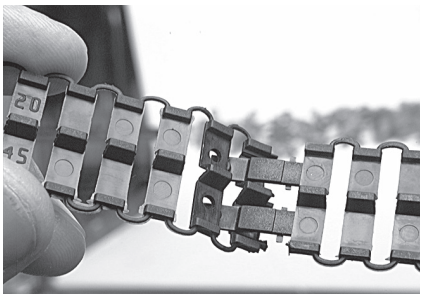
7 Position the splice in the centre of the central part and mark the position of the gel sealing tapes as shown.



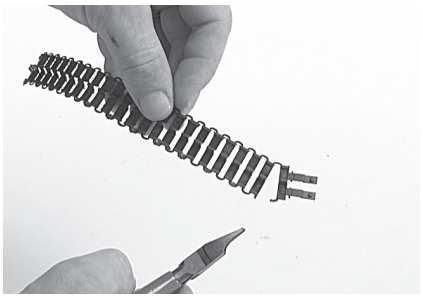
8 Use the measuring tape to determine the required length of the axial pull tape. The measuring tape indicates the number of axial pull elements needed.



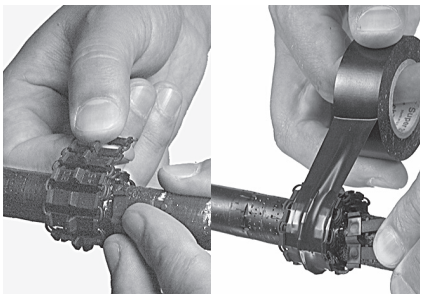
9 Cut the axial pull tape to the measured length.
Note: the numbers on the tape will help you to cut the tape to the right length.



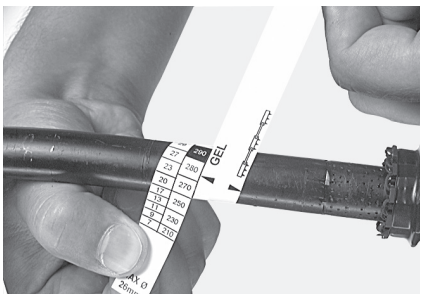
10 In case the measured length exceeds the max. length of one tape, two or more axial pull tapes can be connected together.



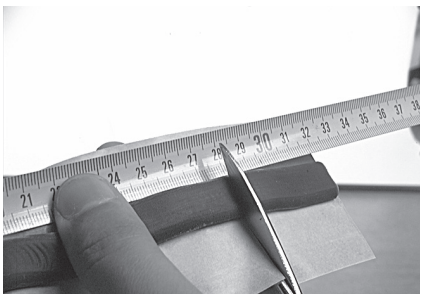
11 Cut the first tape element as shown, but do not cut the element completely off. The partially cut element can be held against the cable and used as an installation aid when wrapping the tape.



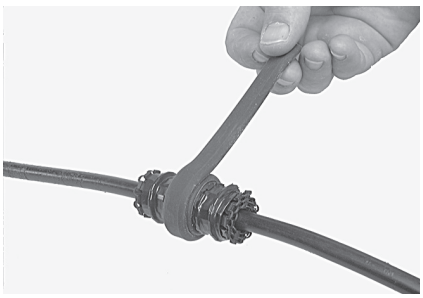
12 Wrap the axial pull tape around the cable using loose lid to keep the strip in place. Use PVC tape to secure. On each cable two axial pull strips with the same length need to be installed on left and right of the marking lines. Remove the partially cut element from both tapes.
Note: For ease of installation, long axial pull tapes may be cut in two sections and wrapped one over the other.



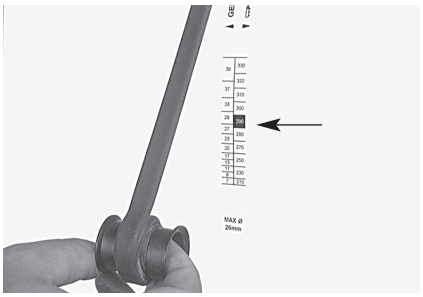
13 Determine the length of the gel sealing tape using the measuring tape (mm).



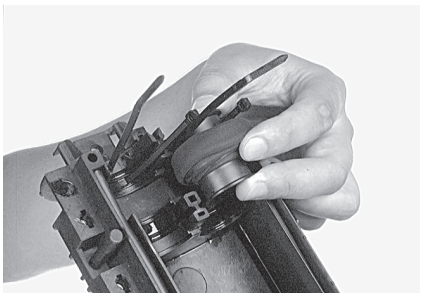
14 Cut the gel tape to the measured length. Note: The marks on the release paper (1 mark per cm) will help you the cut the tape to the right length.



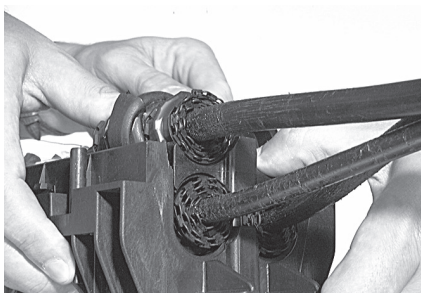
15 Wrap the gel tape around the cable in between the 2 axial pull strips. Note: Do not stretch the gel tape during wrapping.
Repeat steps 8 to 15 for all cables.
Note: For ease of installation, long gel tapes may be cut in two sections and wrapped one over the other.



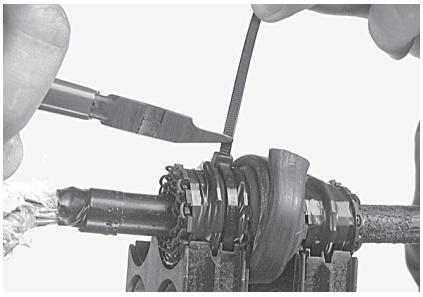
16 For unused cable ports, plugs need to be installed. Wrap gel tape around the centre of the plugs. The required length is marked on the measuring tape (black square) as shown.



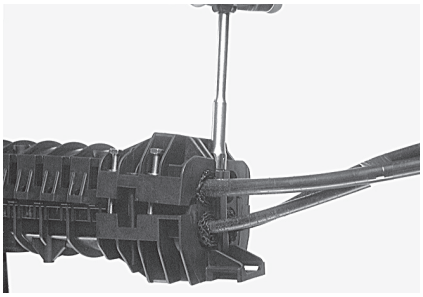
17 Insert the plugs (with gel) in the bottom shell and tighten the tie wraps. Make sure the knob of the tie wrap is on top and cut away the tail.



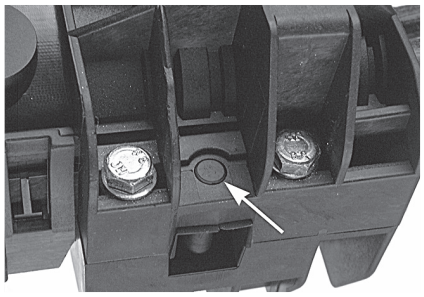
18 Insert all cables in the bottom shell and tighten the tie wraps. Make sure the knob of the tie wraps are always on top and cut away the tail.



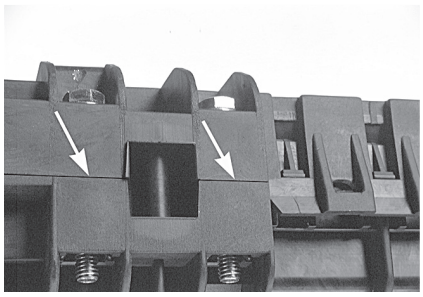
19 Position the 4-out cable separator in between the cables (or plugs), insert in the central part and tighten the tie wraps.
Make sure the knobs of the tie wraps are always on top and cut away the tail.

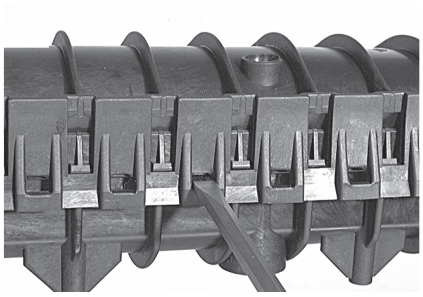


20 Close the central part. Screw all bolts tight, starting with the two mid bolts at both ends. Do not screw each bolt tight completely one after the other. Screw all bolts tight sequentially.



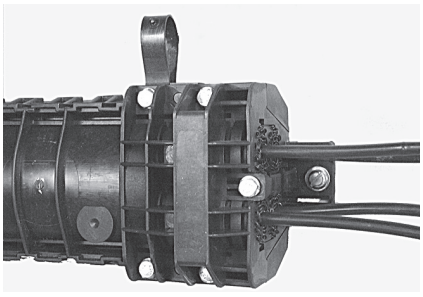
21 The indicator should protrude the top half shell and be at the level of the top part as shown in picture.

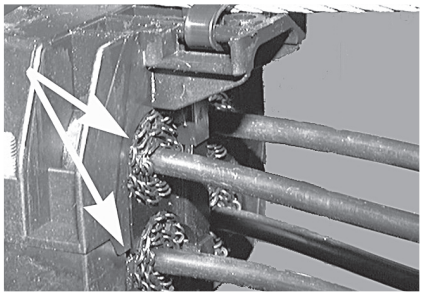




22 Make sure there is no gap between the half shells at the position of the bolts and all snapfits are locked.

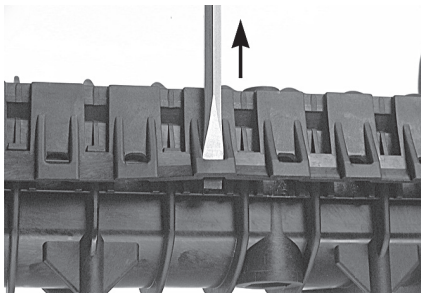
Mounting





1 For mounting on walls use screws/plugs through the mounting brackets at both ends of the central part.
On poles use or screws/plugs or a wide tie wrap through the mounting brackets.
Tie wraps can also be used for aerial mounting as shown.

Re-entry



1 To open the closure, first unscrew the bolts. The snapfits are easily unlocked using a screw driver in a vertical position as shown. Open the closure slowly. In case the gel profiles are coming out of the cavities, remove the profiles slowly from the cable(s) and insert the profiles back in the central part.

2 If no cables are added or changed, all components can be re-used. Close the central part following steps 20 to 22.

3 In case cables are added or replaced, use the specified re-entry kit to install axial pull tapes and gel tapes on the new cable(s). After insertion of the new cables close the central part (installation steps 8 to 22).

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