



Power Cat 6A Data Gate Shielded Patch Panel







Note: Refer to page 5 installation instructions design for Generation-1 DataGate Jack design (part no KSJ-00062-**))

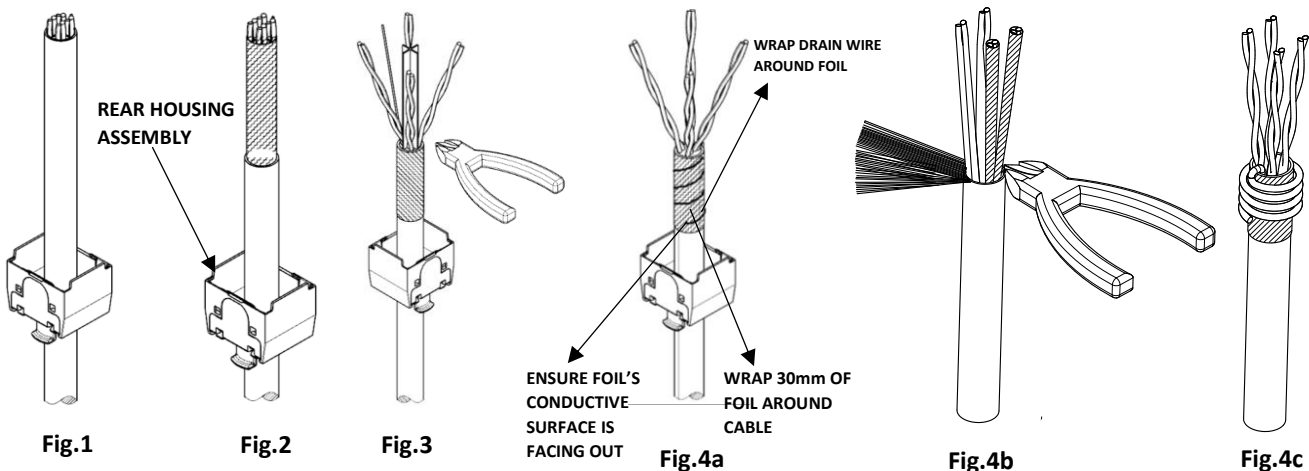
1.0 SCOPE

This document provides installation instructions for Molex Power Cat 6A DataGate Patch Panel.

2.0 PROCEDURE

2.1 TOOLS REQUIRED:

 <p>Molex 4 Pair Termination Tool - (31.0011) Lacing Head (31.0015) (Recommended)</p>	 <p>Wire Cutter</p>	 <p>Cable Stripper</p>
 <p>Flat Screwdriver</p>	 <p>Needle Nose Plier</p>	 <p>110 Punch down tool</p>



2.2 U/FTP Cable preparation:

- Slide Rear Housing on to cable (see Fig. 1)
- Remove 75mm (3") of cable sheath with cable stripper (see Fig. 2)
- Unwrap and remove 3 of the twisted pair's foils with wire clippers.
- Wrap approx. 30mm (1.2") of 4th foil down the length of cable sheath and coil the drain wire on foil (see Fig.3 and Fig.4a)
 - Ensure cable foil's conductive surface is facing out.

F/UTP Cable preparation:

- Slide Rear Housing on to cable (see Fig. 1)
- Remove 75mm (3") of cable sheath with cable stripper (see Fig. 2)
- Unwrap overall foil from cable.
- Remove cable cellophane wrap and central spline with wire clipper (See Fig.3)
- Wrap approx. 30mm (1.2") of foil down the length of cable sheath and coil the drain wire on foil (see Fig. 4a)
 - Ensure cable foil's conductive surface is facing out.

S/FTP Cable preparation:

- 1) Slide Rear Housing on to Cable (see Fig. 1)
- 2) Remove 75mm (3") of Cable sheath with Cable stripper (see Fig. 2)
- 3) Carefully split the braid along one side. (See Fig.4b)
- 4) Remove shield from three pairs. Use clippers to cut-off foil. Pull the foil shield back from the fourth pair over the jacket and wrap the bundle of braid around the shield. Ensure cable foil's conductive surface is facing out. (See Fig.4c)

2.3 CABLE TERMINATION TO JACK:

1. Wiring map (see Fig. 5) Label affixed on Jack IDC housing.

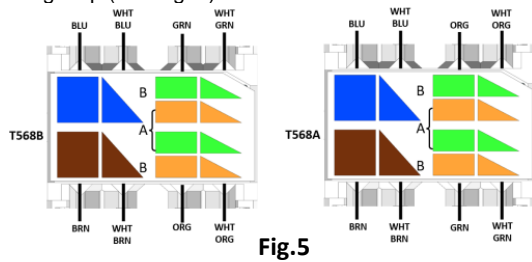


Fig.5

2. Untwist cable pairs and place the cables as per wiring map (Fig.6) and punch down wires to corresponding jack IDC contacts with 110 punch down tool (Fig.7). Molex also recommends 4-Pair Termination Tool (Fig.8) using Lacing head for termination.

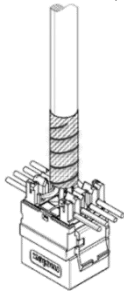


Fig.6

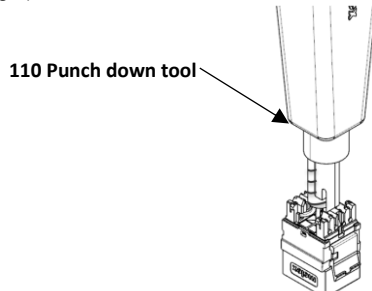


Fig.7

4-Pair termination tool

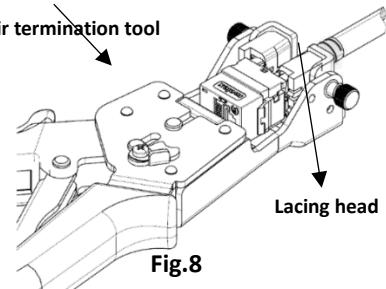


Fig.8

3. Ensure wires are trimmed flush to IDC towers
4. Ensure cable sheath is maintained up to the jack.

2.4 Fix the stuffer cap to IDC Housing (Fig.9) (Ensure Stuffer cap is locked perfectly with IDC Housing) and then slide down the Rear Housing till it is locked with IDC Housing 4 latches.

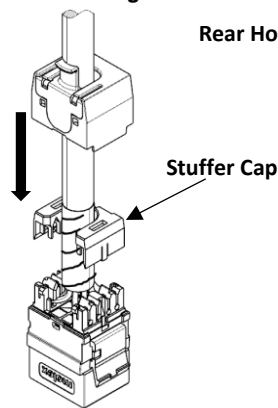


Fig.9

Rear Housing Assembly

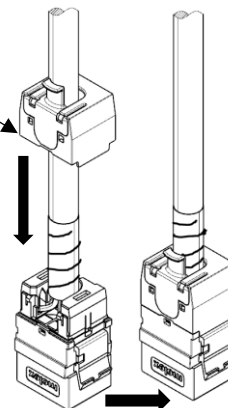


Fig.10

2.5 Position the cable grip over the rear housing. Secure the cable grip until it locks in place, using nose pliers

NOTE: Ensure drain wire or Twisted braid is touching with Cable clamp while fixing the Cable grip (Fig 11.a & Fig 11.b).

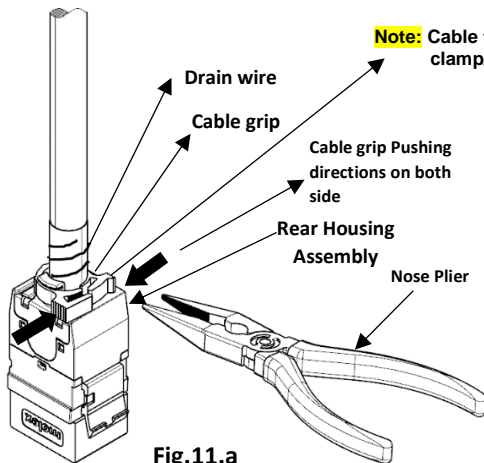


Fig.11.a

Note: Cable ties (Max. Width 2.5-3mm) can also be used to secure the clamp/drain wire & cable in place of cable grip as a choice.

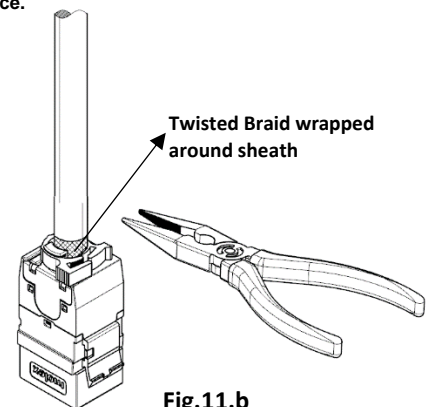
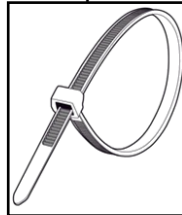


Fig.11.b

3.0 PROCEDURE TO REMOVE THE REAR HOUSING:

- A) To release the cable grip, use a screwdriver to lever to unlock Fig.12
- B) Cut the cable Ties with cutter if it used for tying the cable.

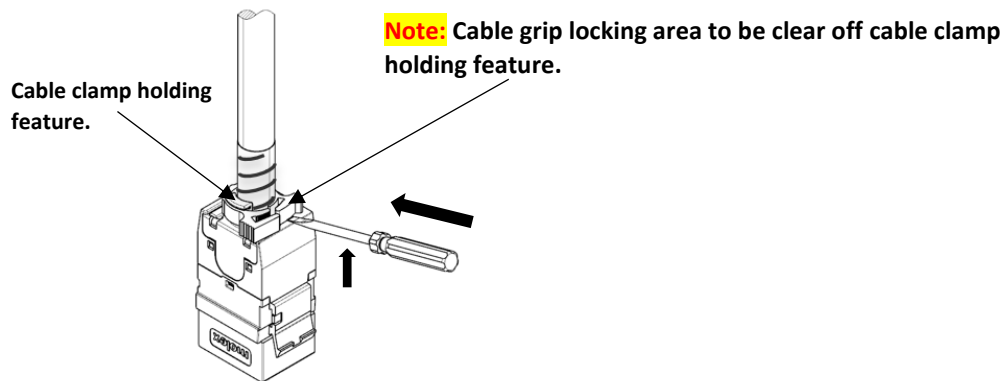
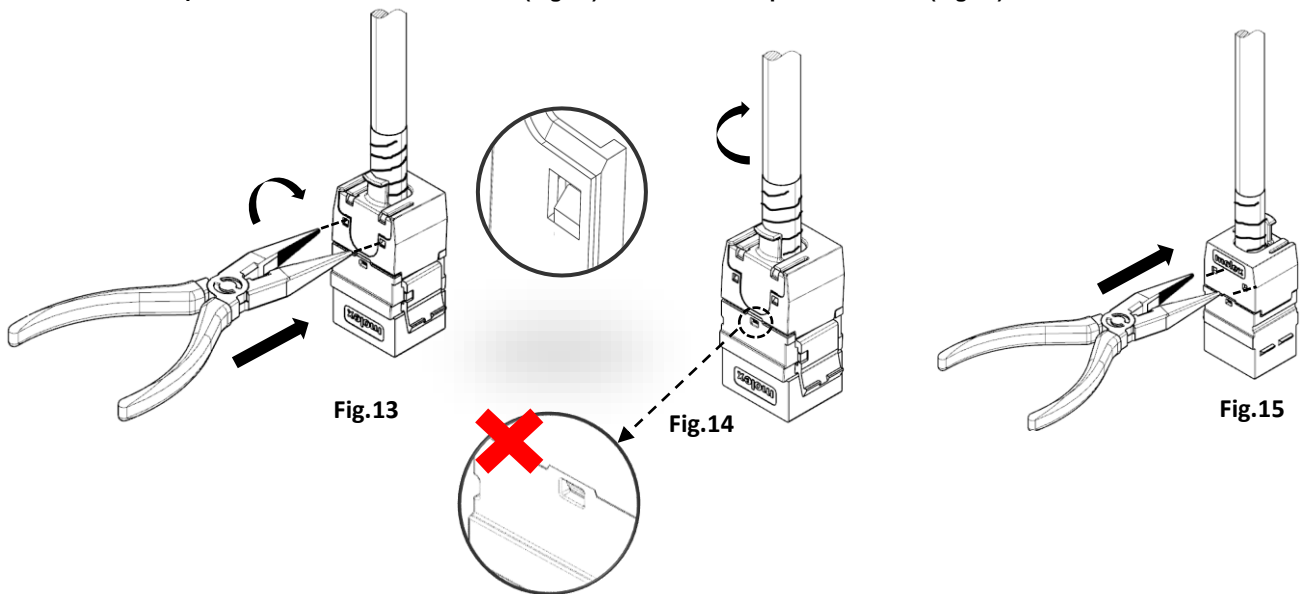


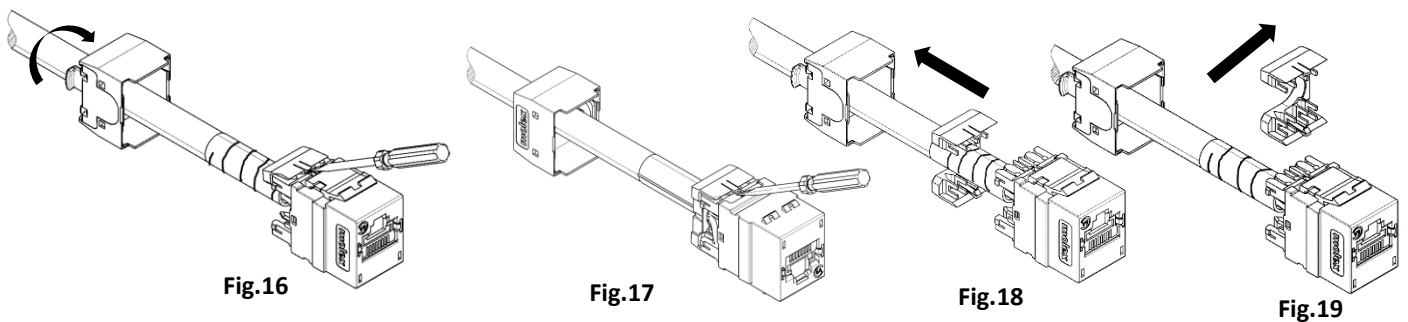
Fig.12

3.1 Insert needle Nose Plier into the Rear Housing slots and push both latches at a time then tilt the Rear Housing as shown (Fig.13) hold in that position and rotate the Jack 180° (Fig.14). follow same step on other side (Fig.15).



! Do not release this latch by inserting any tools here, as this will damage the product.

3.3 Insert the Screwdriver and gently lift the Stuffer cap latch and tilt stuffer cap as shown (Fig.16) and rotate the jack 180° and follow the same step (Fig.17) and remove stuffer cap (Fig.18 &19).



Video for Installation Guide with 110 Punch down Tool: <https://www.youtube.com/watch?v=B2TtatCDYt8>



4.0 TO ASSEMBLE JACK TO PATCH PANEL. (FIG. 20)

1. Orientate jack to panel as shown
2. Slide the jack into patch panel port opening at slight angle
3. Snap jack into panel by pushing down on top of jack

5.0 TO DRESS CABLE TO PATCH PANEL CABLE TRAY:

1. Secure cables to cable tray with cable ties (see Fig. 21)
 - Ensure cable are dressed neatly to cable tray
 - Ensure a minimum 29mm (1") of bend radius is maintained
 - Ensure cable tie does not over-compress cable
2. Individually Earth each patch panel to cabinet Earth position (see Fig. 20)

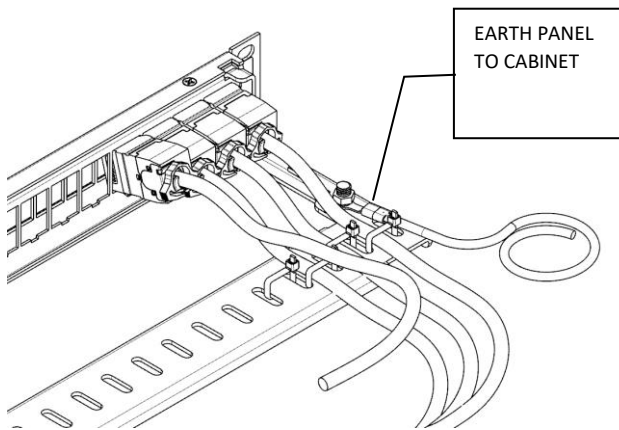


Fig. 20

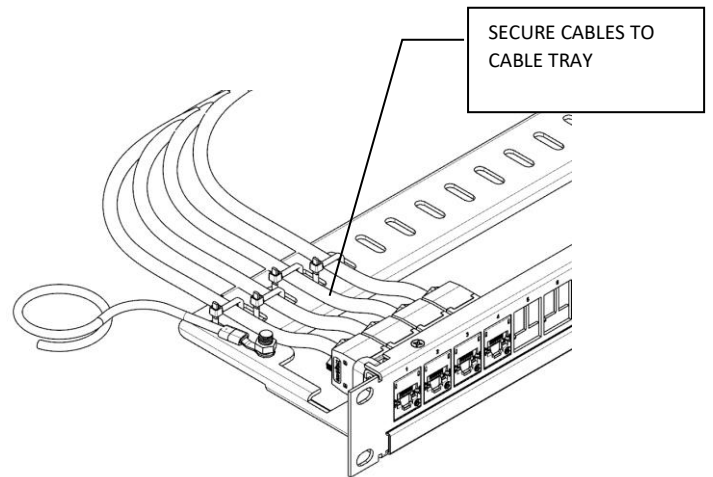
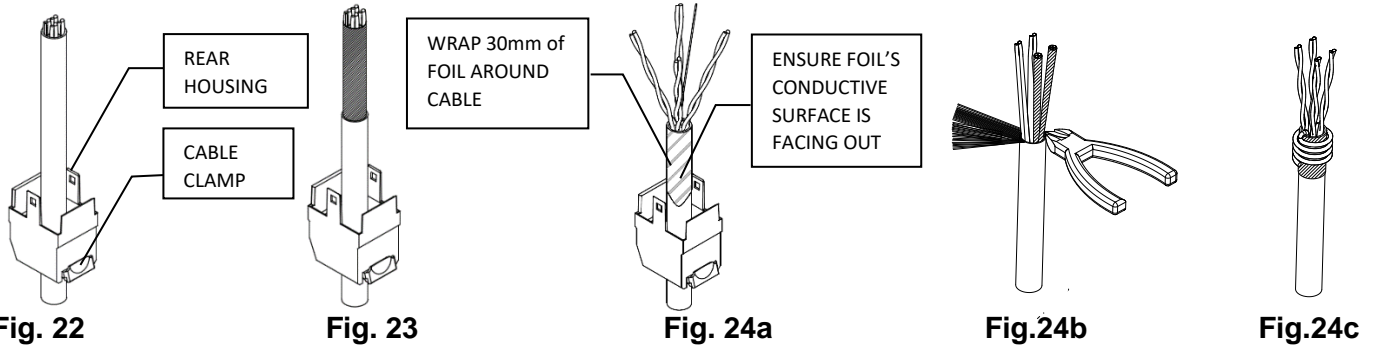


Fig. 21

Installation Instructions for Generation-1 C6A DataGate Jack part no KSJ-00062-**.

Tools required:

- 110 punch down tool, cable strippers, wire clippers, and screwdriver



U/FTP cable preparation:

- 1) Ensure rear housing cable clamp is open (as showing in figures)
- 2) Slide rear housing on to cable (see Fig. 22)
- 3) Remove 75mm (3") of cable sheath with cable stripper (see Fig. 23)
- 4) Unwrap and remove 3 of the twisted pair's foils with wire clippers
- 5) Wrap approx 30mm (1.2") of 4th foil down length of cable sheath (see Fig. 24)
 - Ensure cable foil's conductive surface is facing out

F/UTP cable preparation:

1. Ensure rear housing cable clamp is open (as shown in figures)
2. Slide rear housing on to cable (see Fig. 22)
3. Remove 75mm (3") of cable sheath with cable stripper (see Fig. 23)
4. Unwrap overall foil from cable
5. Remove cable cellophane wrap and center section with wire clippers
6. Wrap approx 30mm (1.2") of foil down length of cable sheath (see Fig. 24)
 - Ensure cable foil's conductive surface is facing out

S/FTP Cable preparation:

1. Slide Rear Housing on to Cable (see Fig. 22)
2. Remove 75mm (3") of Cable sheath with Cable stripper (see Fig. 23)
3. Carefully split the braid along one side. (See Fig. 24b)
4. Remove shield from three pairs. Use clippers to cut-off foil. Pull the foil shield back from the fourth pair over the jacket and wrap the bundle of braid around the shield. Ensure cable foil's conductive surface is facing out. (See Fig. 24c)

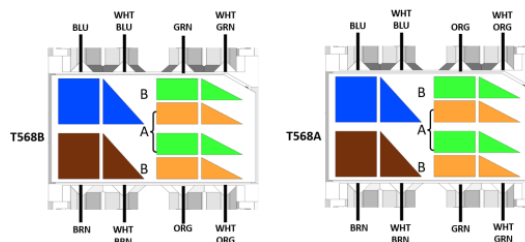
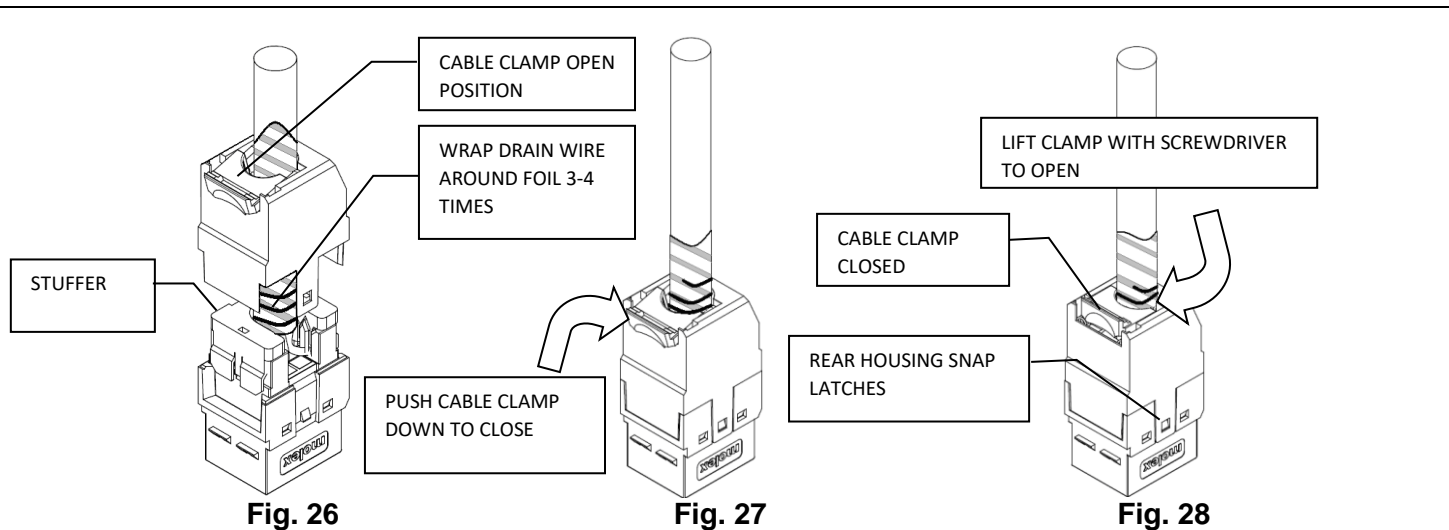


Fig. 25

Cable termination to jack:

1. Wiring map (see Fig. 25)
2. Untwist cable pairs and punch down wires to corresponding jack IDC contacts with 110 tool
3. Ensure wires are trimmed flush to IDC towers
4. Ensure cable sheath is maintained up to the jack

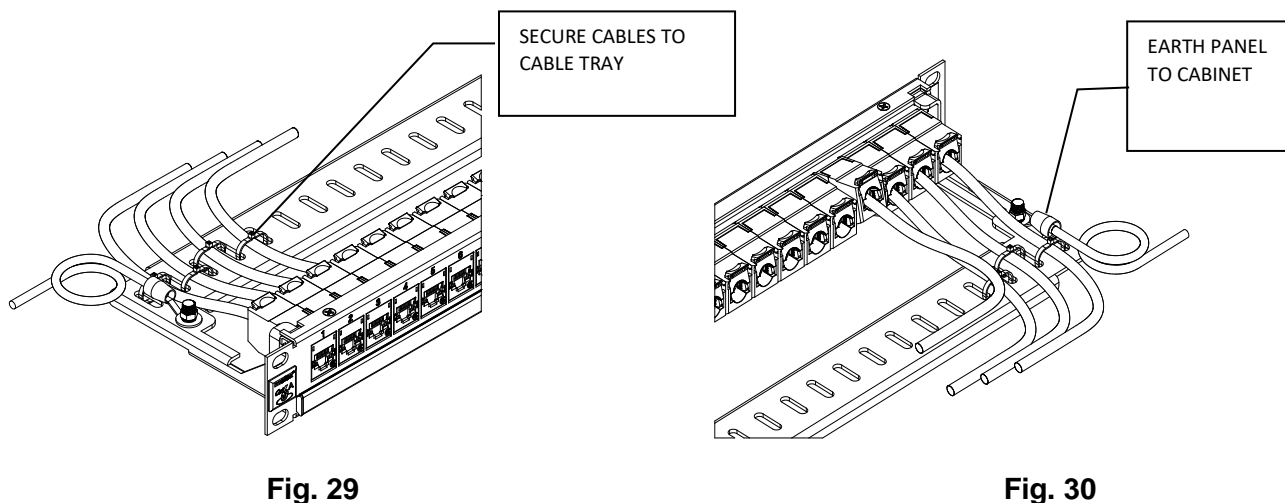


To fit rear housing to jack:

1. Fit cable strain relief stuffer cap to IDC towers (see Fig. 26)
2. Wrap drain wire around cable foil 3 - 4 times (see Fig. 26)
3. Snap rear housing to jack (see Fig. 27)
4. Push clamp down to close clamp (see Fig. 27)
 - Ensure cable clamp clamps down on wrapped drain wire
 - Trim excess foil with clippers

To remove rear housing from jack:

1. Lift cable clamp with screwdriver (see Fig. 28)
2. Lift rear housing snap latches with screwdriver (see Fig. 28)
3. Pull rear housing apart from jack



To assemble jack to patch panel. (Fig. 30)

4. Orientate jack to panel as shown
5. Slide in jack into patch panel port opening at slight angle
6. Snap jack into panel by pushing down on top of jack

To dress cable to patch panel cable tray:

3. Secure cables to cable tray with cable ties (see Fig. 29)
 - Ensure cable are dressed neatly to cable tray
 - Ensure a minimum 29mm (1") of bend radius is maintained
 - Ensure cable tie does not over compress cable
4. Individually Earth each patch panel to cabinet Earth position (see Fig. 30)