

Jack Data Gate Cat6a Shielded 568A/B-Universal Installation Instruction

1.0 SCOPE







This document provides installation instructions for Molex Power Cat 6A DataGate Jack-Universal.

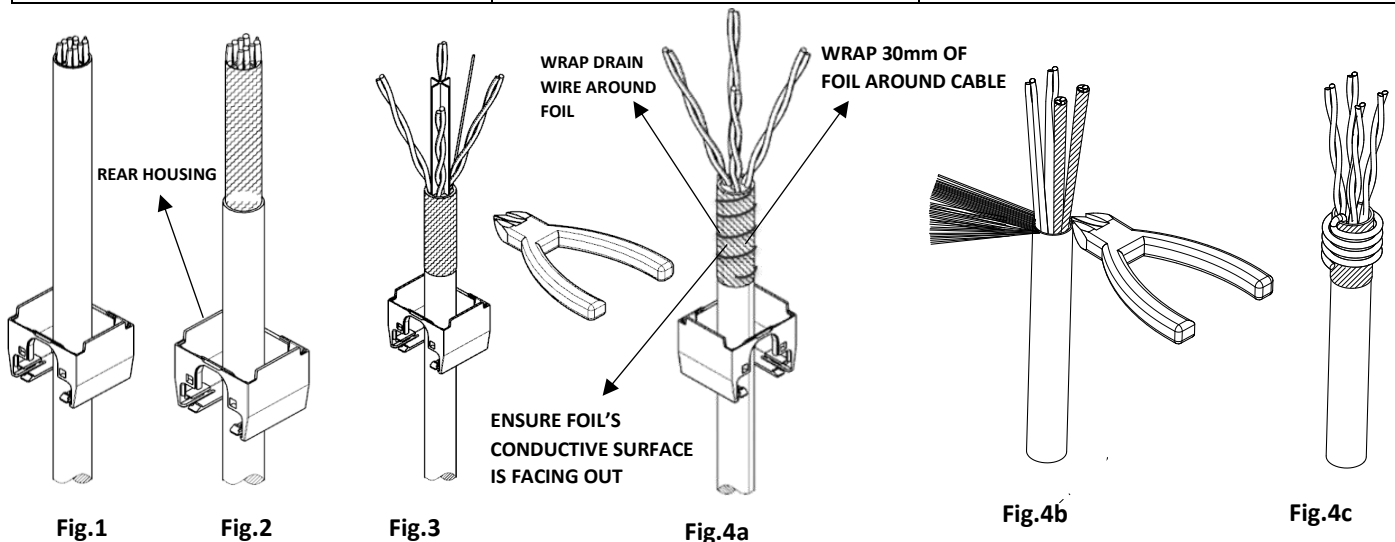
2.0 PRODUCT DESCRIPTION

Molex recommends that the full range of Power Cat 6A Shielded products be used in an end-to-end system to maximize cabling performance. This Jack offers superior alien crosstalk suppression, excellent insertion loss, and provides enhanced electromagnetic interference (EMI) protection by utilizing robust die cast zinc alloy Jack Body Housing. This shielded Jack also features a unique spring-loaded shutter that not only protects it from dust and contaminants, but the ingenious spring-loaded design also ejects improperly seated patch cords. The shielded Jack is dual color coded for either 568A or 568B wiring schedules.

3.0 PROCEDURE

3.1 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>



3.2

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.

ENGINEERING RECORD NO : 734103	SAP NO : 187000557	Doc No: 187000557	Doc part: AS	REV- A2
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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)

3.3 CABLE TERMINATION TO JACK:

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

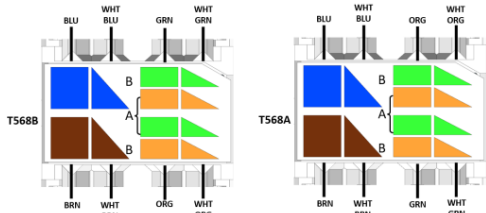


Fig.5

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.

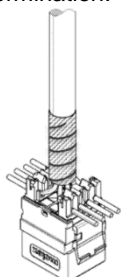


Fig.6

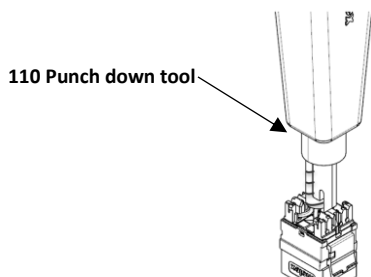


Fig.7

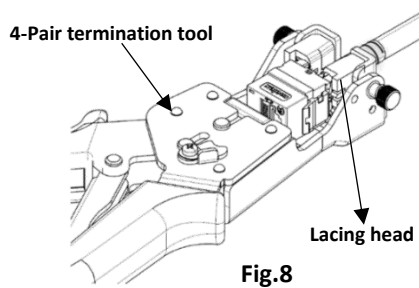


Fig.8

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

- 3.4 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.

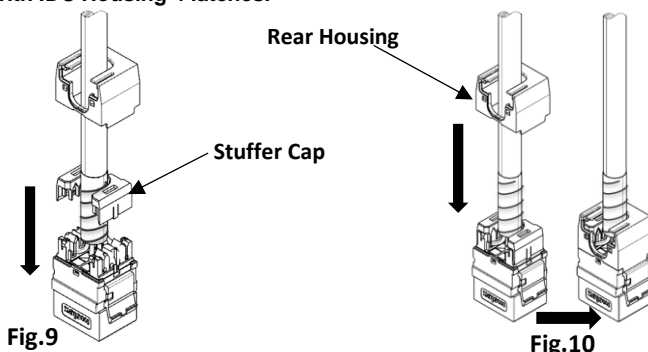


Fig.9

Fig.10

- 3.5 Insert and push the cable clamp in shown orientation (Straight Entry) until the cable clamp is locked with Rear housing latches. Position the cable grip over the rear housing. Secure the cable grip until it locks in place, using nose pliers.

NOTE: Ensure drain wire is touching with Cable clamp while fixing the Cable grip.

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 an option.

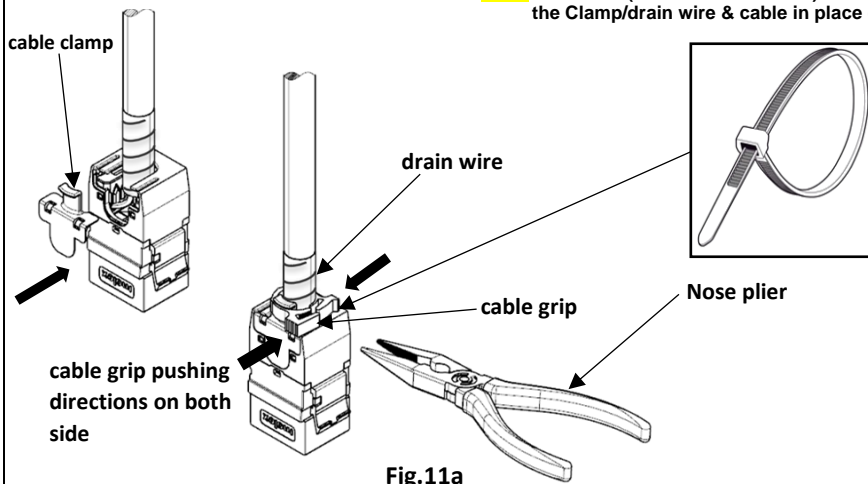


Fig.11a

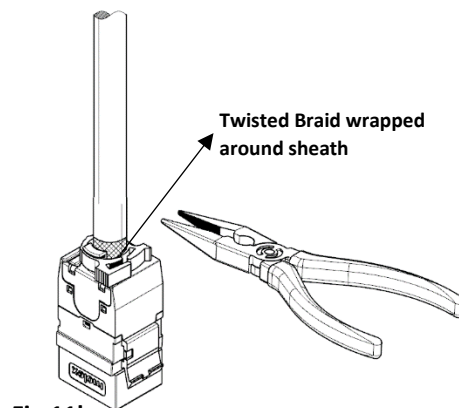
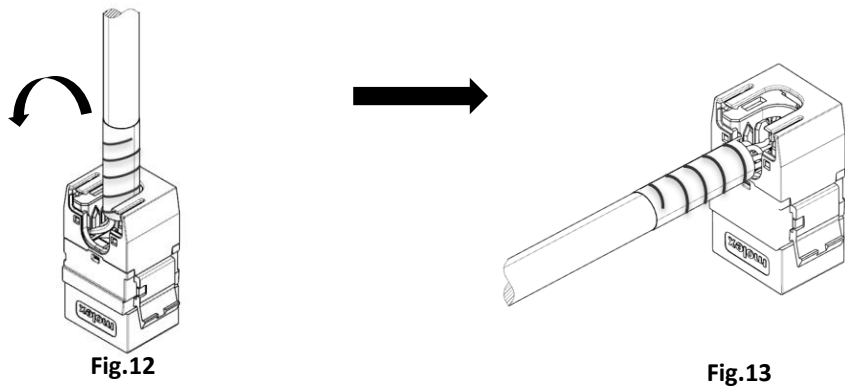


Fig.11b

4.0 PROCEDURE OF SIDE ENTRY CABLE:

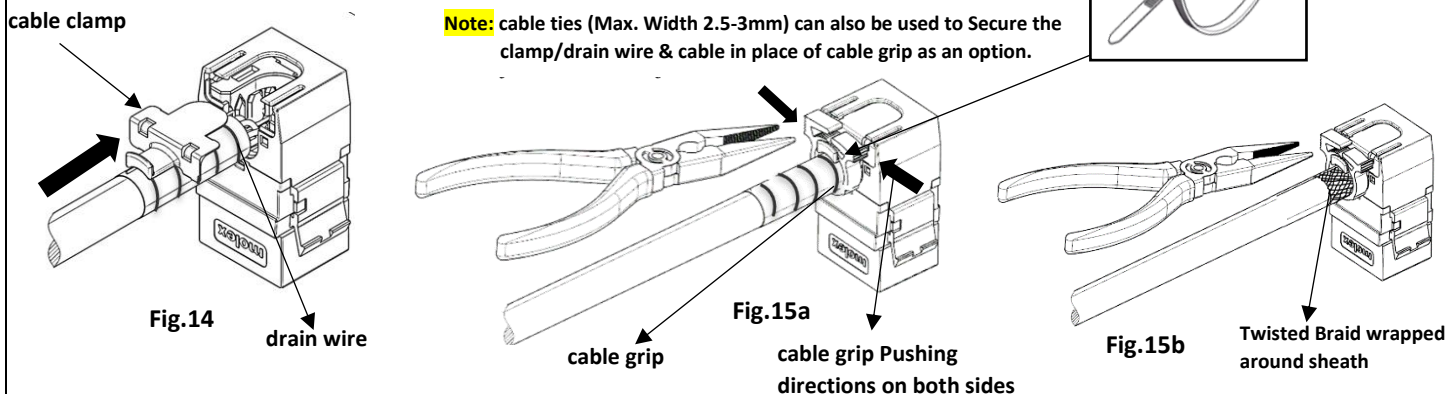
4.1 Follow the same steps from 3.2 to 3.4 for cable preparation and cable termination to jack, then twist the cable as shown (Fig.12) to achieve as shown in (Fig.13).



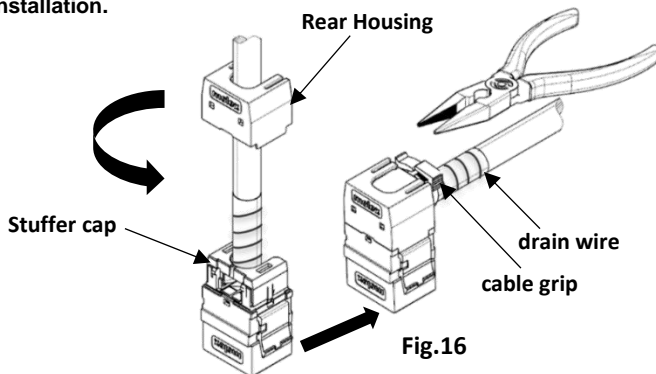
4.2 Insert and push the cable clamp in shown orientation (Fig.14) until cable clamp is locked with Rear housing latches. Insert the cable grip and push on both sides to hold the cable along with cable clamp (Fig.15a&15b).

NOTE: Ensure drain wire is touching with cable clamp while fixing the cable grip.

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 an option.



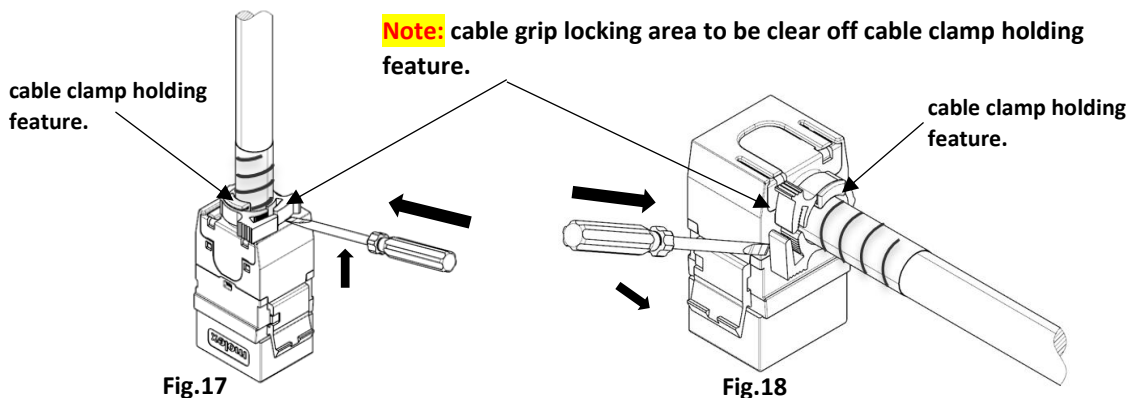
4.3 For opposite side orientation, follow step from 2.2 to 2.3 and rotate the Rear housing and stuffer for 180° then follow the steps 3.1 and 3.2 to complete jack installation.



5.0 PROCEDURE TO REMOVE THE REAR HOUSING:

- A) To release the cable grip, use a screwdriver to lever to unlock Fig.17&18
- B) Cut the cable Ties with cutter if it used for tying the cable.

Note: cable grip locking area to be clear off cable clamp holding feature.



4.4 Insert Screwdriver under the latch of Rear Housing and gently lift and pushing the cable outwards and repeat for second latch. Fig.19 and 20 for straight entry. and Fig.21 and 22 for side entry.

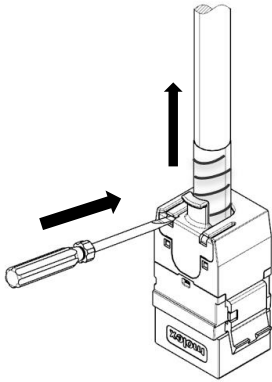


Fig.19

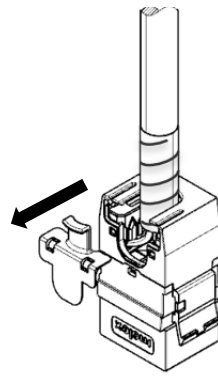


Fig.20

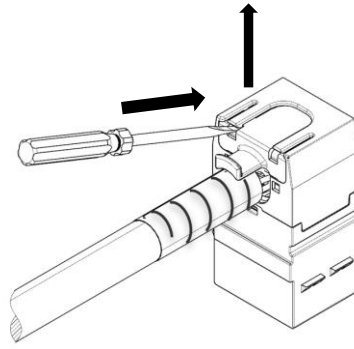


Fig.21

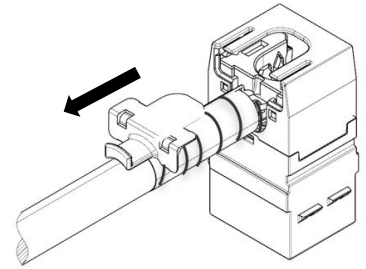


Fig.22

4.5 Insert needle Nose Plier into the Rear Housing slots and push both latches at a time and tilt the Rear Housing as shown (Fig.23) and hold in that position and rotate the Jack 180° (Fig.24). follow same step on other side (Fig.25).

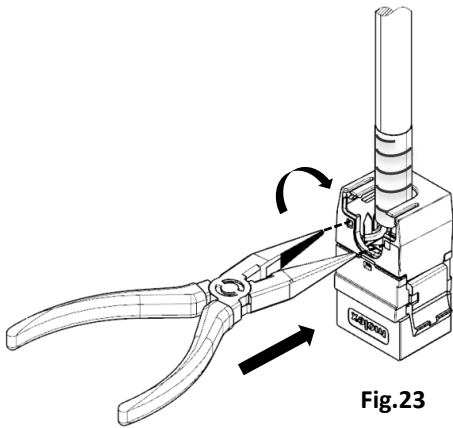


Fig.23

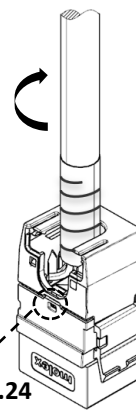
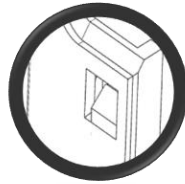


Fig.24

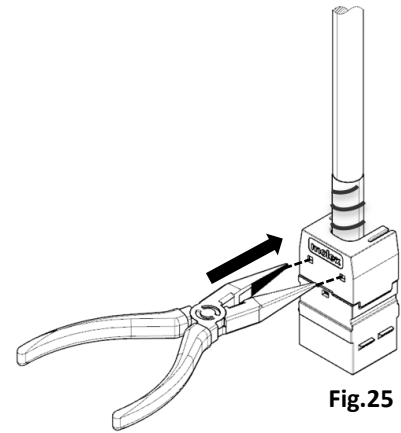
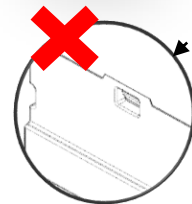



Fig.25

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

4.4 Insert the Screwdriver and gently lift the Stuffer cap latch and tilt stuffer cap as shown (Fig.26) and rotate the Jack 180° and follow the same step (Fig.27) and remove stuffer cap (Fig.28 & 29).

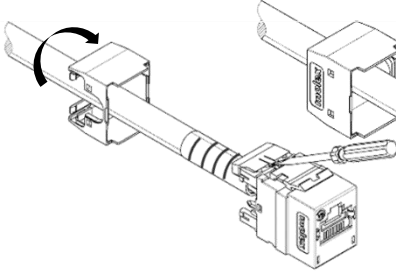


Fig.26

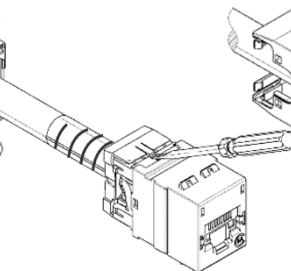


Fig.27

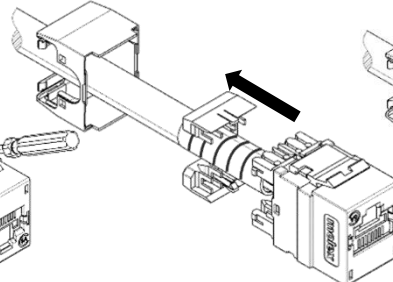


Fig.28

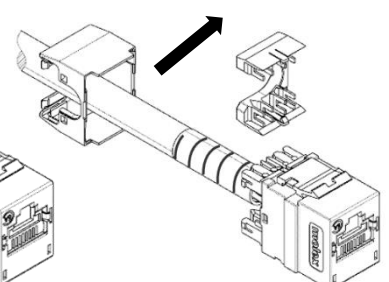


Fig.29

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

