

# Installation Instructions

## RJ45 CAT6a Cable

Interconnect Solutions Worldwide



MIL-DTL-38999 and MIL-DTL-26482 style plug connectors with the Cat6a RJ45 plug and cable installed.



# Interconnect Solutions Worldwide

## CABLE COMPONENTS



Add the clamp nut and sealing components to the cable in the correct order and orientation as shown.



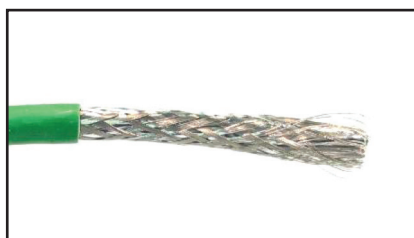
# Interconnect Solutions Worldwide

## CABLE PREPARATION

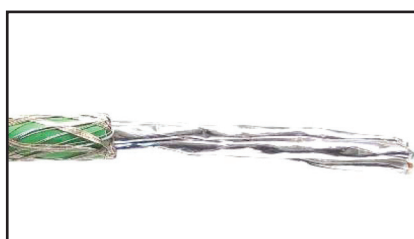


With orange on left and brown on right, one end of cable has green on top, other end has blue on top. Green end steps will be shown on the left, blue steps shown on the right. Common steps will be in the middle.

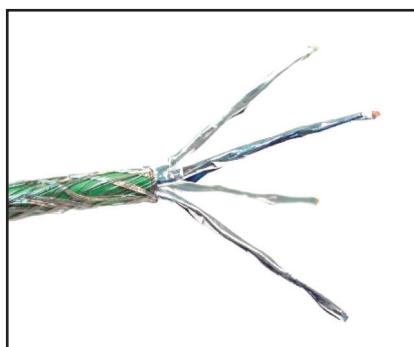
## INDIVIDUALLY SHIELDED PAIRS



1. Trim off approx. 45mm of cable jacket  
Do not nick shield



2. Fold shield back over cable jacket

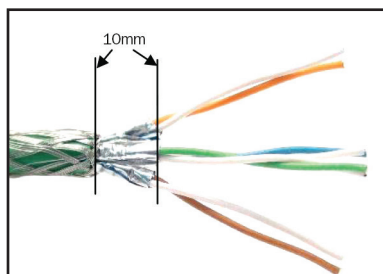


3. Spread apart pairs

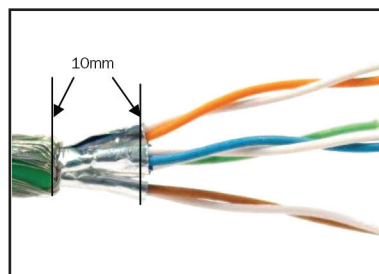


## Interconnect Solutions Worldwide

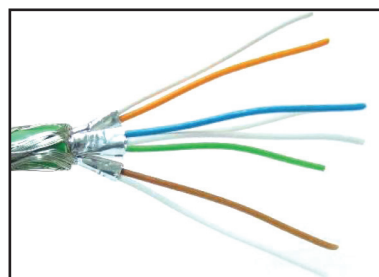
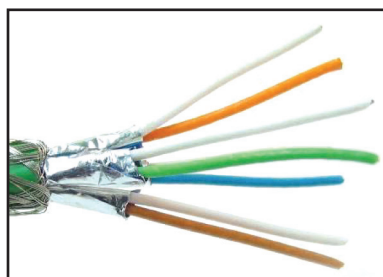
**GREEN**



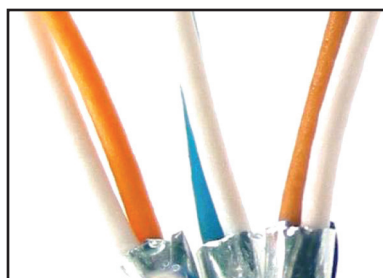
**BLUE**



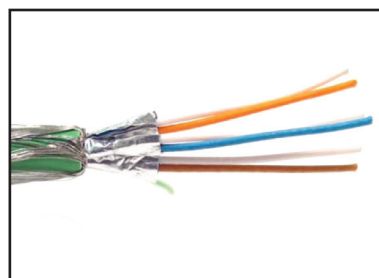
4. Trim individual pair shields, leaving approximately 10mm sticking out beyond cable jacket



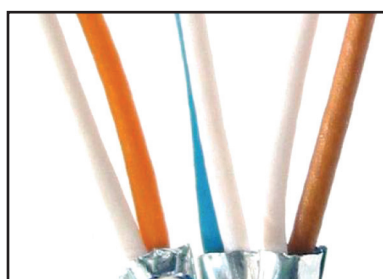
5. Untwist pairs back to ends of shields



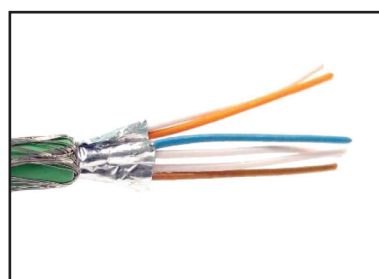
6a. Here, brown pair has incorrect alignment  
Add  $\frac{1}{2}$  twist as low as possible



6b. Here, blue pair has incorrect alignment  
Add  $\frac{1}{2}$  twist as low as possible



7a. Brown pair is now in correct alignment

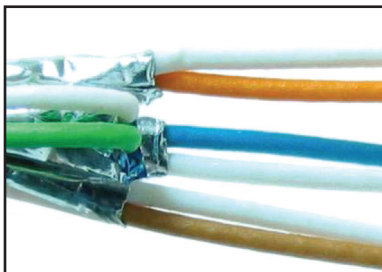


7b. Blue pair is now in correct alignment



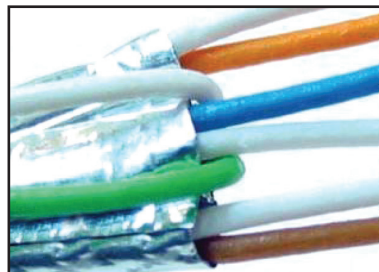
# Interconnect Solutions Worldwide

**GREEN**



8a. Fold green pair back

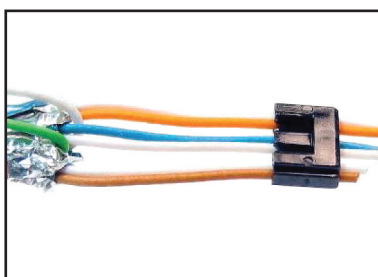
**BLUE**



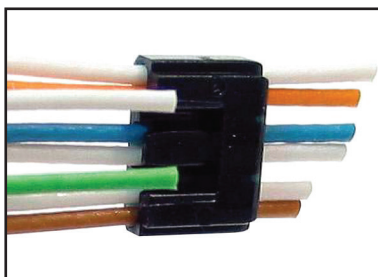
8b. Split green pair around blue pair, then fold back



9. Trim ends of orange, blue and brown pairs at slight angle to make loading easier



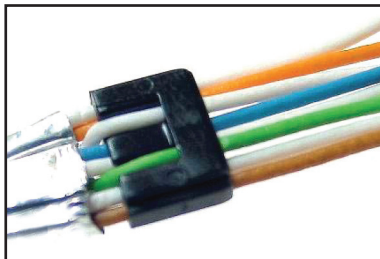
10. Insert orange, blue and brown pairs into load bar  
Leave load bar near end of pairs



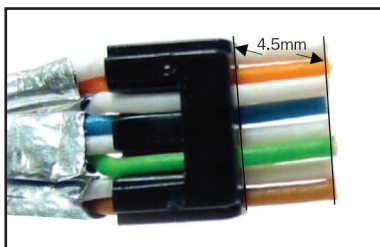
11. Bring up green pair and trim so it fits into load bar



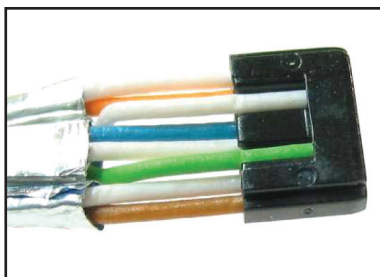
# Interconnect Solutions Worldwide



12. Slide load bar down to base of pairs



13. Trim off wire ends at approx. 4.5mm



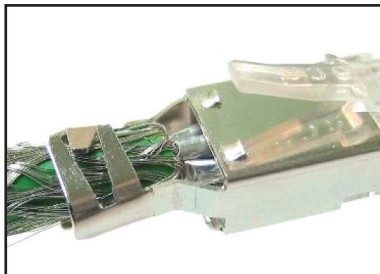
14. Slide load bar to end of pairs to make loading into housing easier



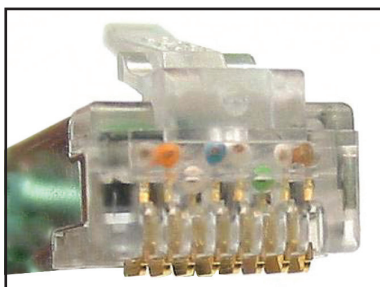
15. Gently insert assembly into housing



# Interconnect Solutions Worldwide



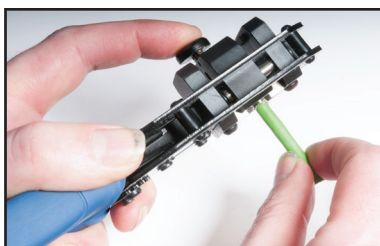
16. Close shield fingers by hand



17. Verify wires are visible through end of plug



18. Insert plug and cable into crimp tool and fully close tool

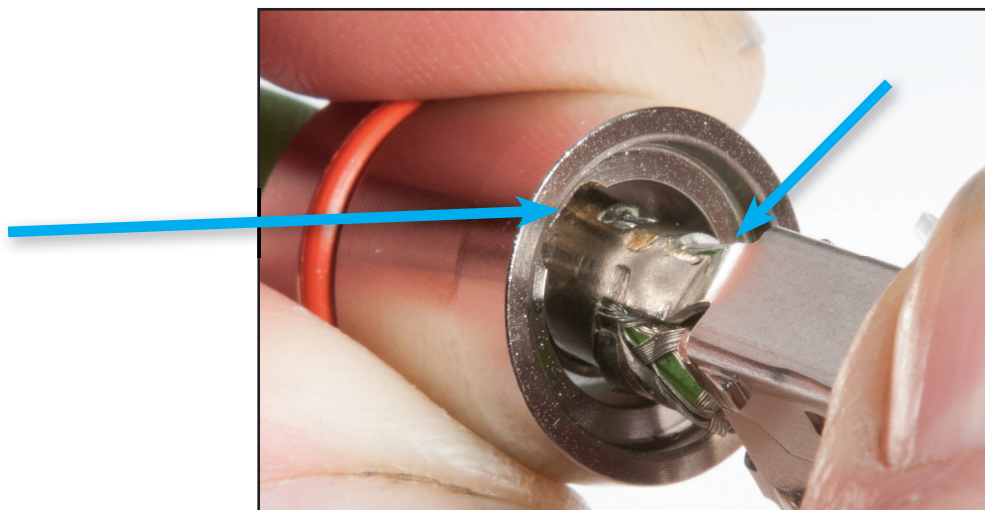


19. Push button to release crimped assembly from tool



# Interconnect Solutions Worldwide

## CONNECTOR ASSEMBLY



20. Align the slot in the seal carrier with the tabs on the rear of the plug



21. Rotate the seal carrier against the plug to confirm alignment

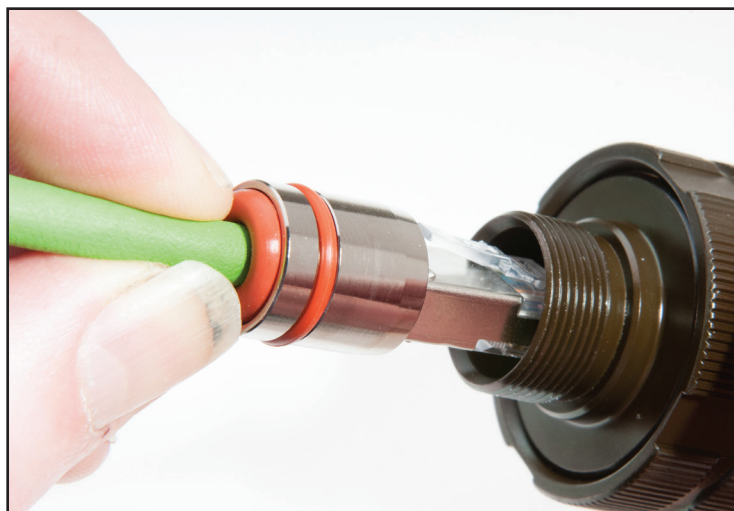


22. Push O-ring against the seal carrier to hold in place

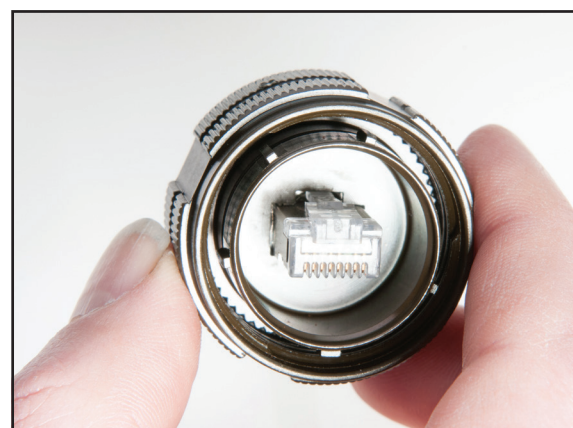




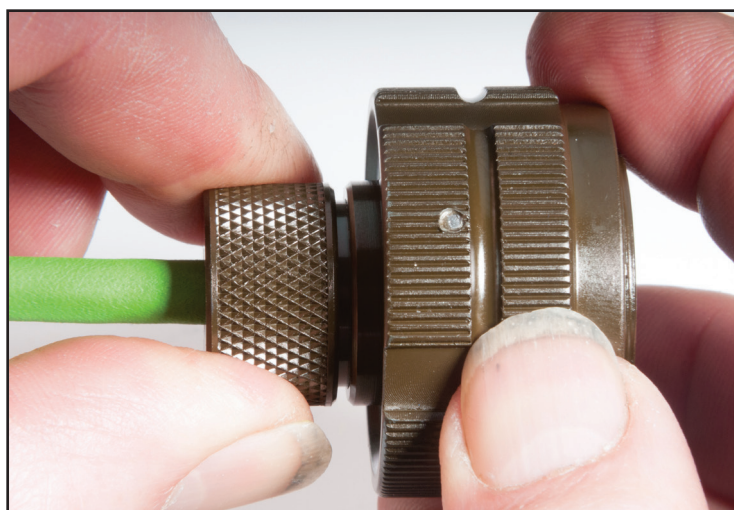
# Interconnect Solutions Worldwide



23. Push the plug and seal carrier into the back of the connector



24. The plug is fully installed when the back of the seal carrier is flush with the connector as shown



25. Tighten the cable clamp nut firmly by hand - maximum torque 1.5Nm