Application Note

AX0 Jack Shield Termination Options for Different Cable Constructions

Introduction

Application Note ID:
NS-AN26-0001

Date:
2/12/2026

Product Line:
AX0 Jacks

Part Numbers Affected:
AX61S, AX6AS, and all shielded cables

When considering how to bond a cable shield onto a jack, there are many possible termination options. These options vary, depending on specific cable construction (e.g., F/UTP, U/FTP, F/FTP, and S/FTP).

This application note will advise on acceptable methods of shield bonding for each of these cable options onto AX0 shielded jacks.

For each cable construction, a minimum shield termination method will be outlined, and “360-degree” shield termination methods will be presented.

The minimum shield termination method may be considered to be the quickest-to-install method which has been tested by Leviton and has been proven to produce an effective shield bond, both at initial termination and after environmental stress testing, which simulates field aging of the bonding connection.

There may be a perception, when installing shielded cabling, that standards “require” a 360-degree screen at the jack termination. What the EN 50174-2 standard actually says is that in the absence of manufacturer’s instructions that 360-degree screen coverage is one of the suggested methods that should be employed to achieve an adequate shield termination. Nonetheless, a 360-degree screen requirement is sometimes written into jobsite wiring specifications and will need to be employed on those projects.

With pairs-in-metal-foil (PIMF) cable constructions, 360-degree screen coverage is easily achieved by pulling all pair foils back, metal-side outward. These cable constructions include U/FTP, F/FTP, S/FTP, and others. In most cases these pair foils must be pulled back with a half-twist to achieve a metal-side outward presentation.

Note: Presenting the foil metal-side outward enables bonding between the foil and the jack body.

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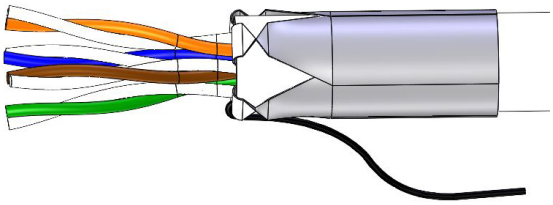

A PIMF cable construction is shown. Cable is prepped with all pair foils pulled back metal-side outward (pulled back with a half-twist) and distributed around the cable jacket, achieving 360-degree screen coverage.

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F/UTP Cable Constructions

The F/UTP cable construction is characterized by an unshielded twisted pair (UTP) core, with an overall outer foil and a drain wire. The drain wire is tinned copper, and may be solid or stranded wire. Some cables may have a center spline (a pair separator).

The following Leviton cables utilize the F/UTP construction:

- Europe Category 6A
  - FDT B2ca
  - FDT Cca
  - FDT Dca
  - FDT Eca
- Europe Category 6
  - C6F/UTP Dca
  - C6F/UTP Eca
- North America Category 6A
  - FDT CMP
  - LANMARK-10G FTP CMP
  - LANMARK-10G FTP CMR
- North America Category 6
  - LANMARK-6 FTP CMP
  - LANMARK-6 FTP CMR

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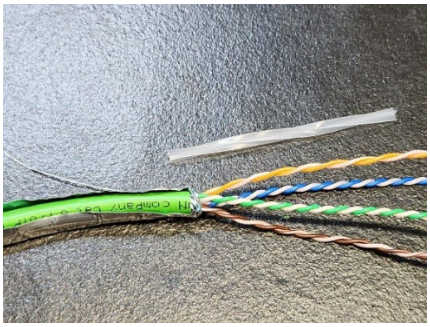
Minimum Termination Method to Achieve an Effective Shield Bond for F/UTP Cable Constructions onto AX0 Shielded Jacks

1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.

2. Pull the foil back, metal side outward, and pull back the drain wire.

3. Remove cable center spline (if the cable has a center spline) ensuring no damage to foil, drain wire, or conductor insulation.



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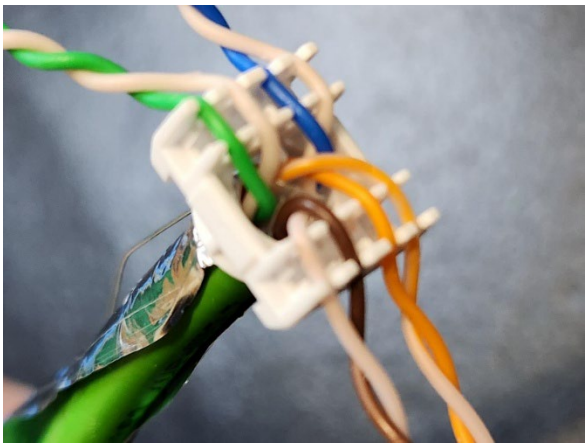
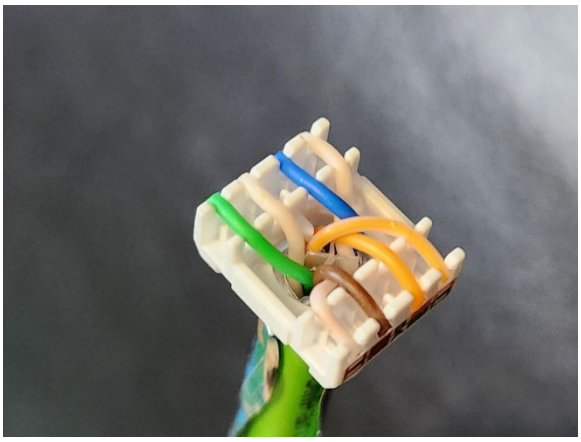
4. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.





5. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.

6. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.

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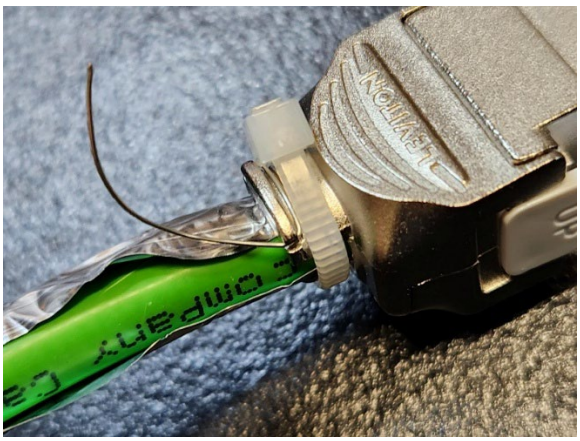
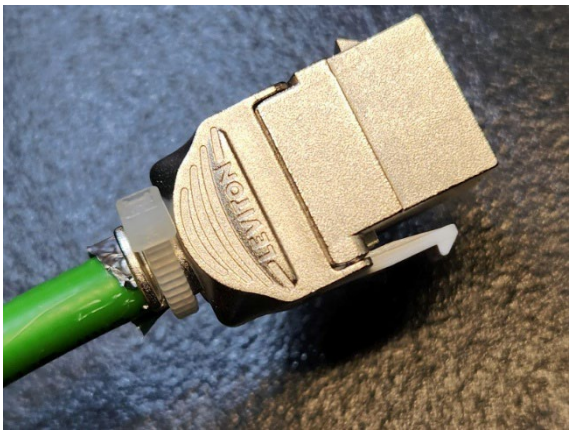
7. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.





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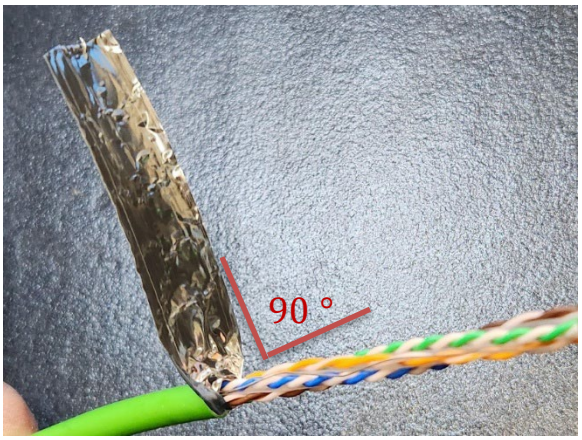
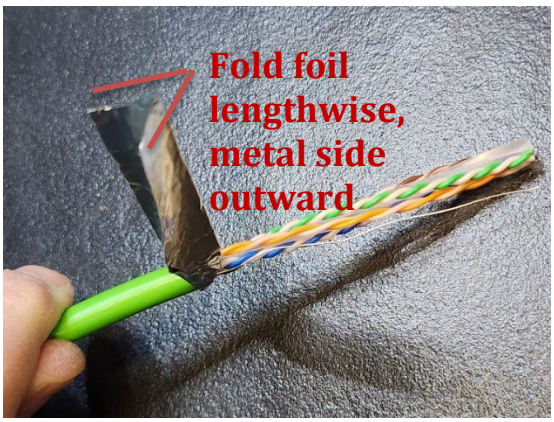
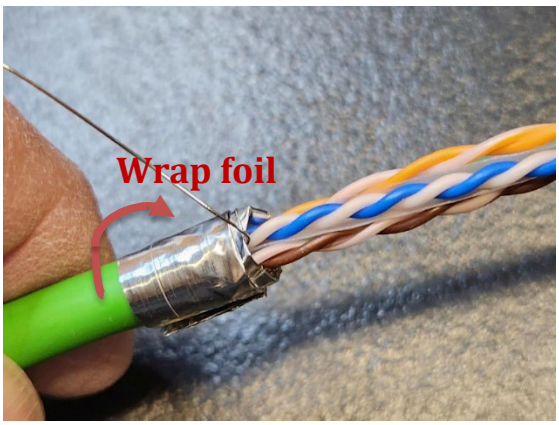
Termination Method where "360-degree screen" is required for Shield Bonding for F/UTP Cable Constructions onto AX0 Shielded Jacks

1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.
2. Straighten and flatten the foil at a 90-degree angle to the axis of the cable.



3. Fold the foil lengthwise, metal side outward, and wrap it around the cable at the cable jacket strip point. ***Important!*** *Do not wrap foil on top of the drain wire!*





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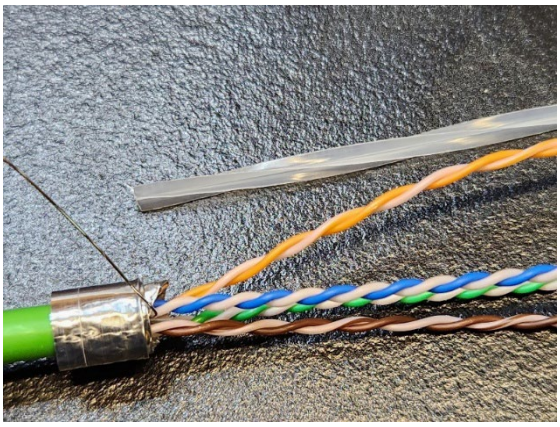
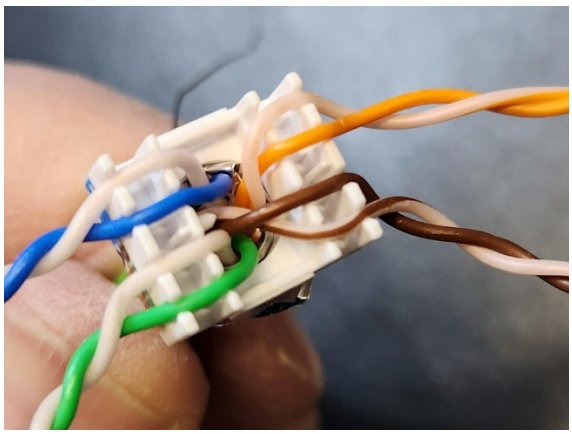
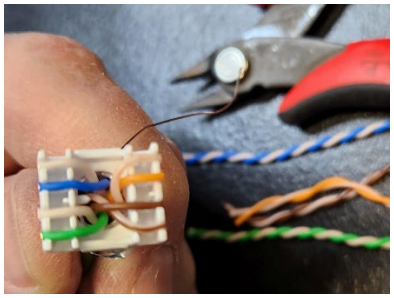
4. Remove cable center spline (if the cable has a center spline) ensuring no damage to foil, drain wire, or conductor insulation.

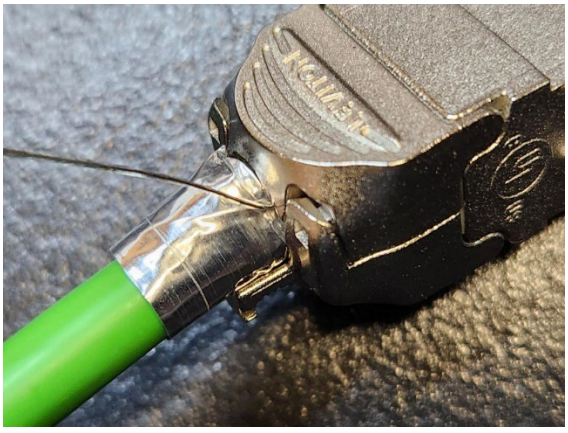




5. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label. Perform a visual polarity check. With a flush cutter, trim the pairs flush to the sides of the wire manager.



6. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.



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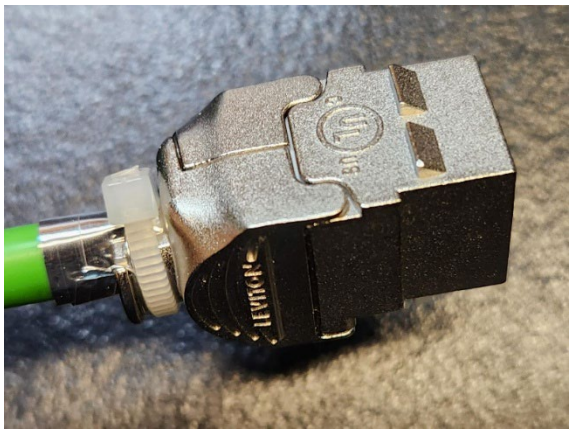
7. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.



8. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail and excess drain wire length.

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U/FTP Cable Constructions

The U/FTP cable construction is characterized by a separate foil around each of the four pairs and a drain wire. The drain wire is tinned copper. There is no outer foil. The cable may have a polymer wrap.

The following Leviton cables utilize the U/FTP construction:

- Europe Category 6A
  - AC6U/FTP B2ca
  - AC6U/FTP Cca
  - AC6U/FTP Dca
  - AC6U/FTP Eca

- Europe Category 6A Zone Cable
  - AC6 DCZ B2ca
  - AC6 DCZ Cca
  - AC6 DCZ Dca
  - AC6 DCZ Eca

- Europe Category 6
  - C6U/FTP B2ca
  - C6U/FTP Cca
  - C6U/FTP Dca
  - C6U/FTP Eca

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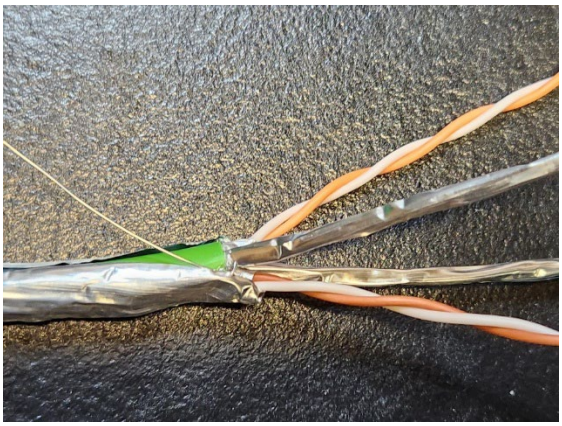
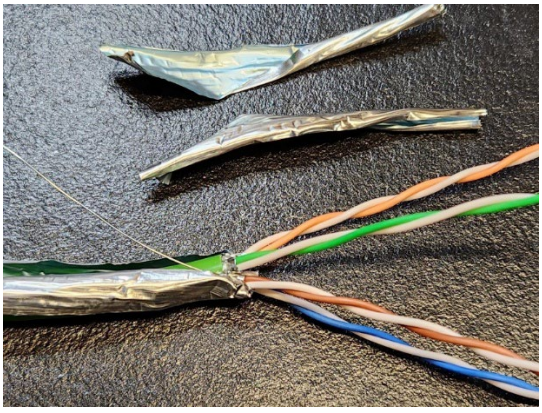
Minimum Termination Method to Achieve an Effective Shield Bond for U/FTP Cable Constructions onto AX0 Shielded Jacks

1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Remove polymer wrap (if the cable has such a wrap). Pull back the drain wire.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.



2. Open and pull back two opposing foils with a half-twist, so that they lay metal side outward. This may be either the brown and orange pair foils, or the blue and green pair foils.

3. Trim off the other two foils and discard them.



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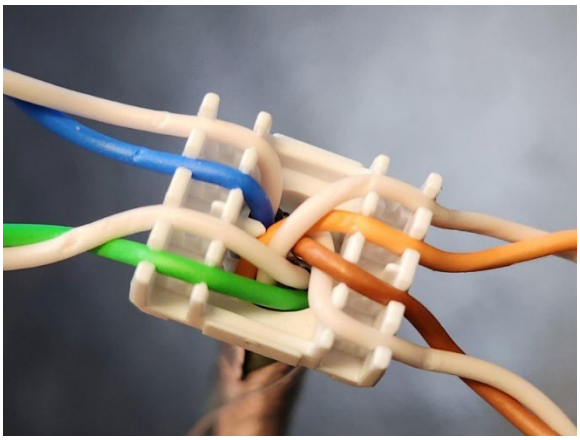
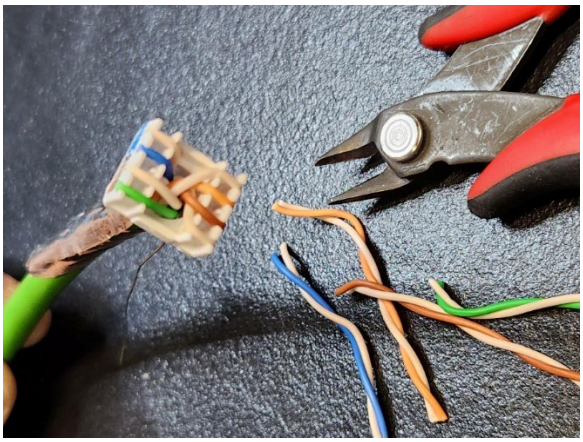
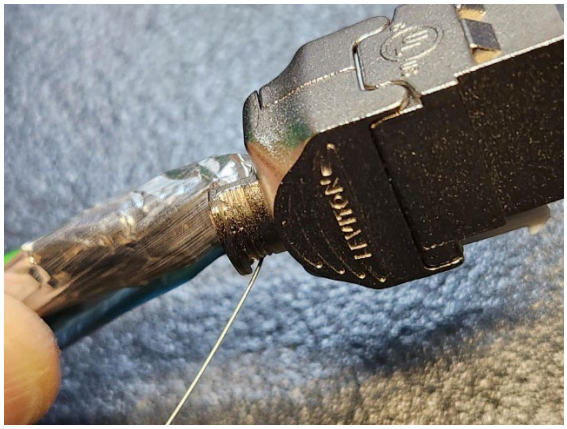
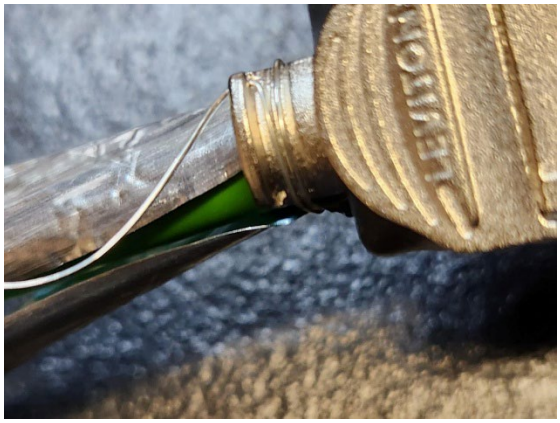
4. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.





5. Align wire manager with jack and using fingers, begin to close the jack doors. Be sure that one of the pulled back foils will be under the jack flange. If necessary, reposition the closest foil, so that it will lie under the flange when the jack doors are closed. Complete jack door closure, ensuring foil and drain wire are not caught in the doors.





6. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.

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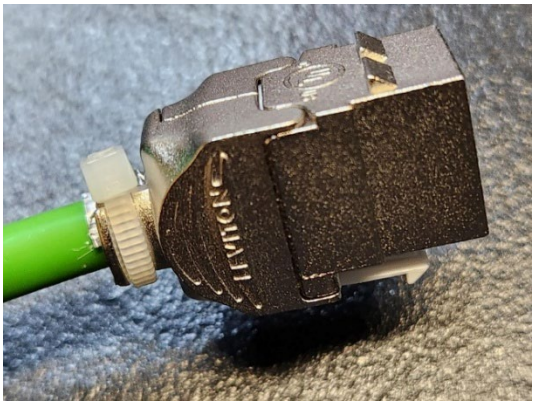
7. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.



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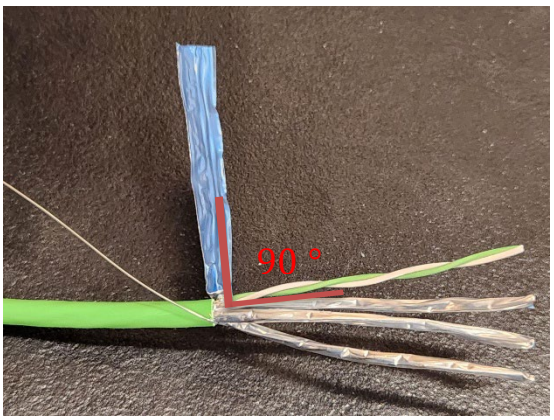
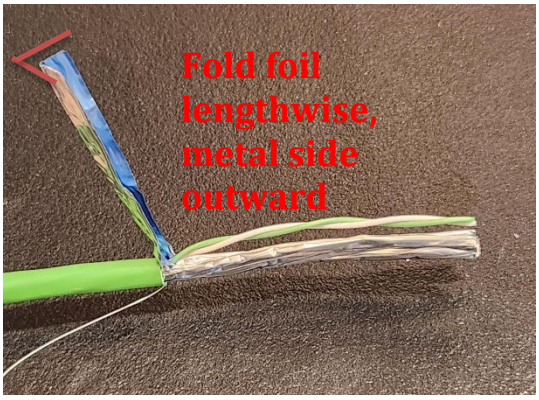
Termination Method where "360-degree screen" is required for Shield Bonding for U/FTP Cable Constructions onto AX0 Shielded Jacks – Method 1

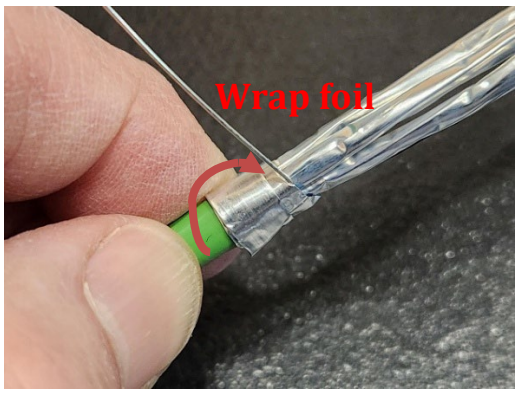
1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Remove polymer wrap (if the cable has such a wrap). Pull back the drain wire.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.



2. Open one of the pair foils. Straighten and flatten it and pull it back 90 degrees to the axis of the cable.

3. Fold the foil in half, lengthwise, and metal side outward.





4. Wrap foil around cable jacket at cable strip point
   Important! *Do not wrap foil on top of the drain wire!*
   Note: If foil tears, remove it and use a different pair foil.

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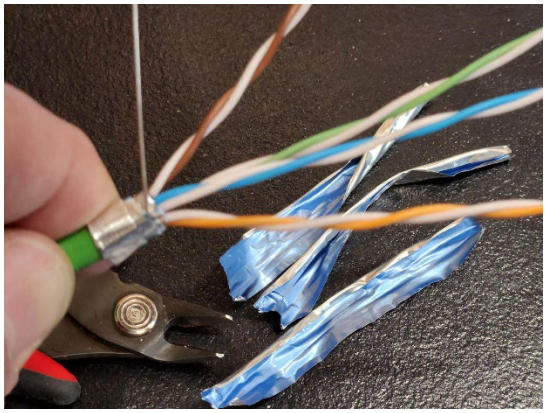
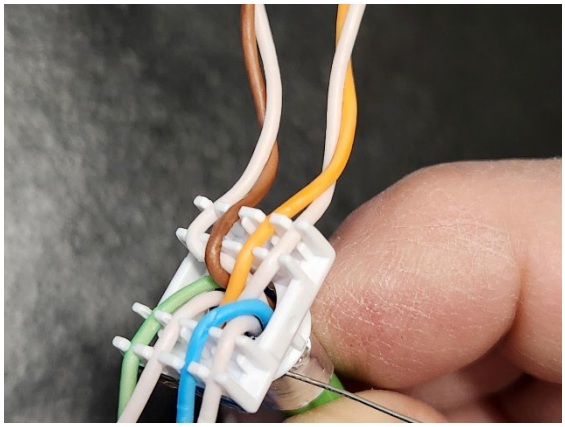
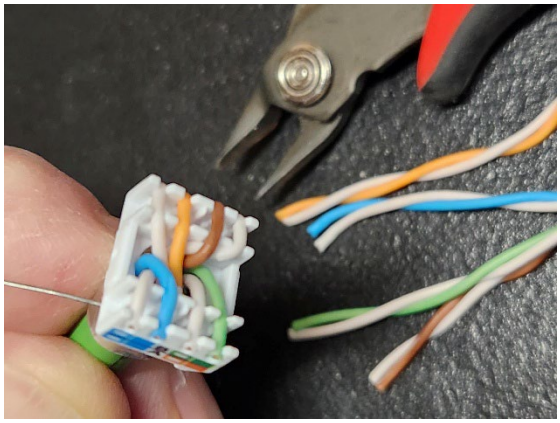
5. Remove the other foils and discard.



6. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.





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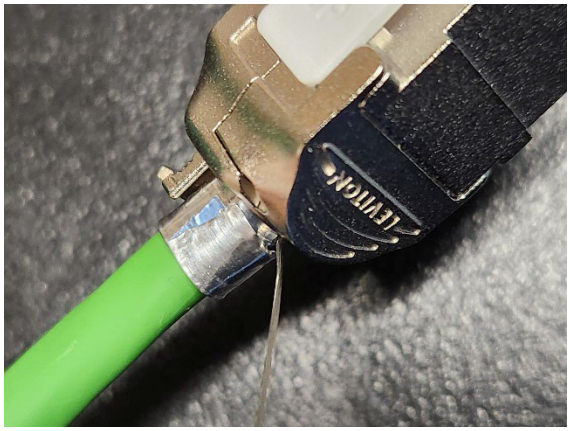
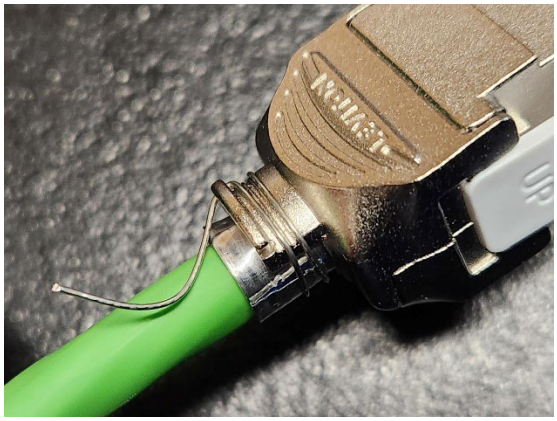
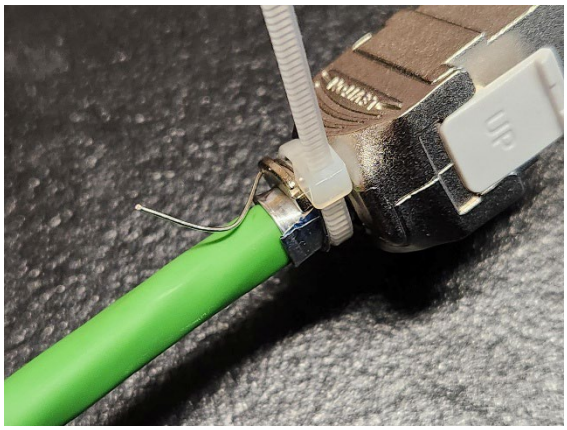
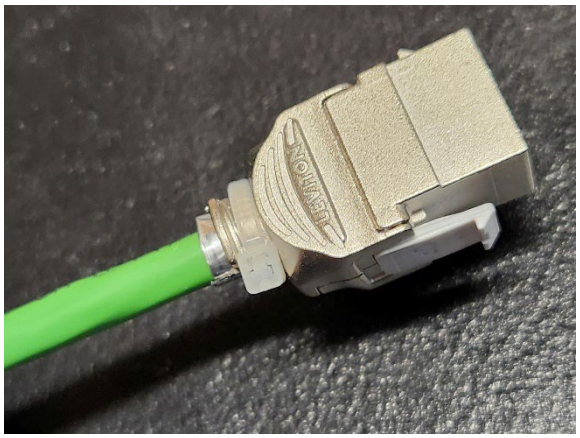




4. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.

5. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.





6. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail and excess drain wire length.

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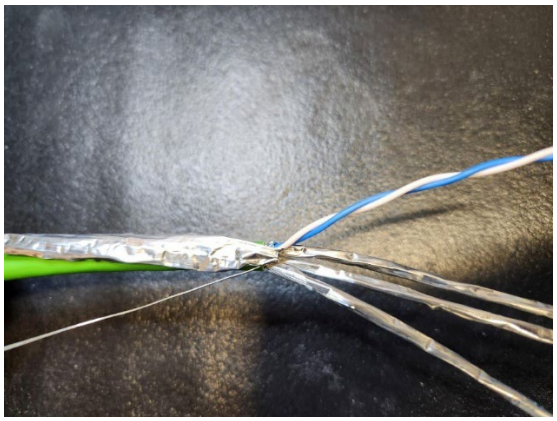
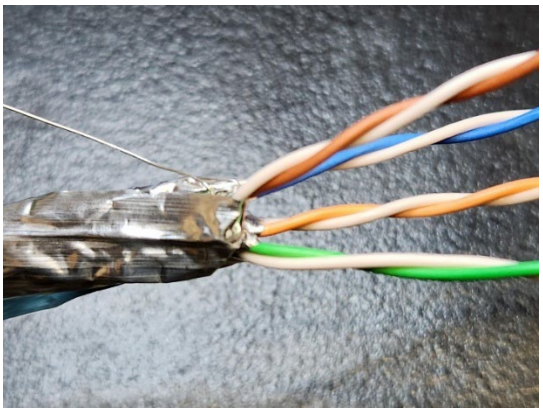
Termination Method where "360-degree screen" is required for Shield Bonding for U/FTP Cable Constructions onto AX0 Shielded Jacks – Method 2

7. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Remove polymer wrap (if the cable has such a wrap). Pull back the drain wire.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.



8. Open the first pair foil, and with a half twist (to present metal side outward) pull the foil back along the cable jacket.

9. Pull back the other three pair foils along the cable jacket, metal side outward, distributing them around the cable jacket equally, to attain 360-degree screen coverage.



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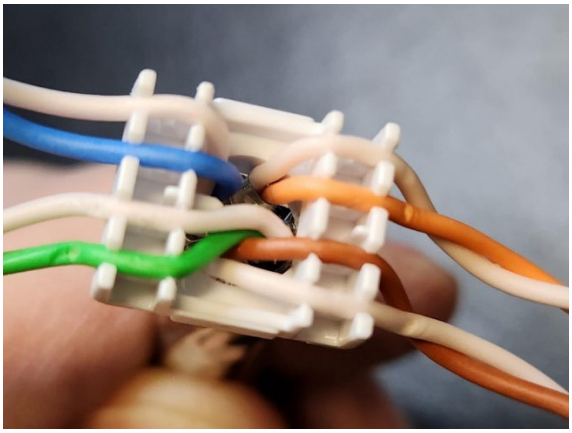
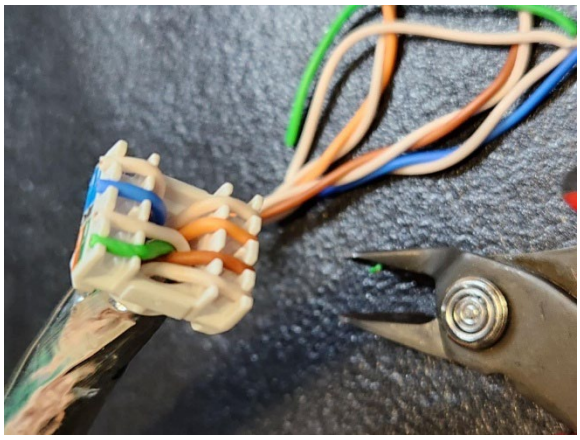
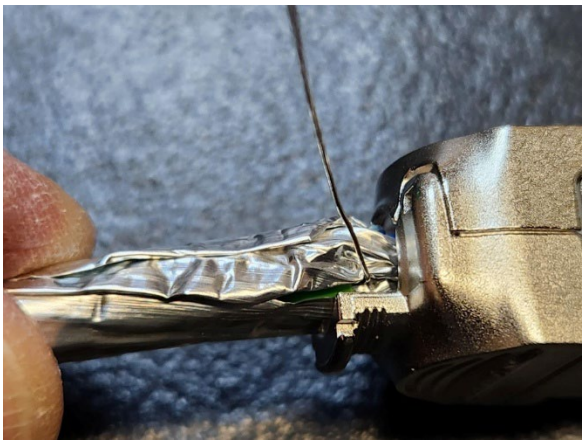
7. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.





8. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.



9. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.

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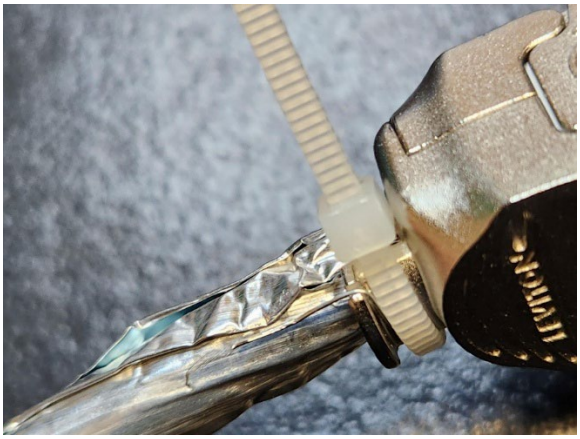

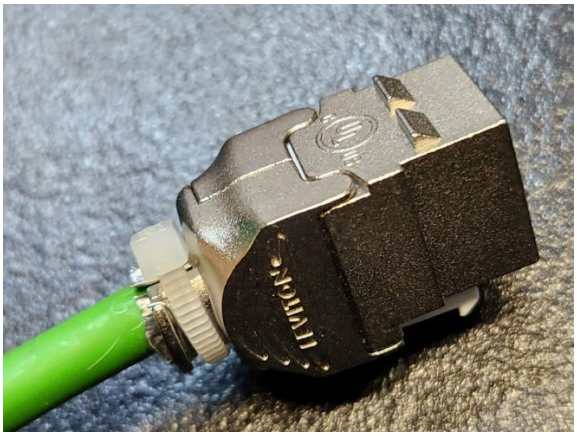

10. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.

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F/FTP Cable Constructions

The F/FTP cable construction is characterized by a separate foil around each of the four pairs , as well as an outer foil and a drain wire. The drain wire is tinned copper.

The following Leviton cables utilize the F/FTP construction:

- Europe Category 6A
  - AC6F/FTP B2ca
  - AC6F/FTP Cca
  - AC6F/FTP Dca
  - AC6F/FTP Eca

- Europe Category 6
  - C6F/FTP B2ca
  - C6F/FTP Cca
  - C6F/FTP Dca
  - C6F/FTP Eca

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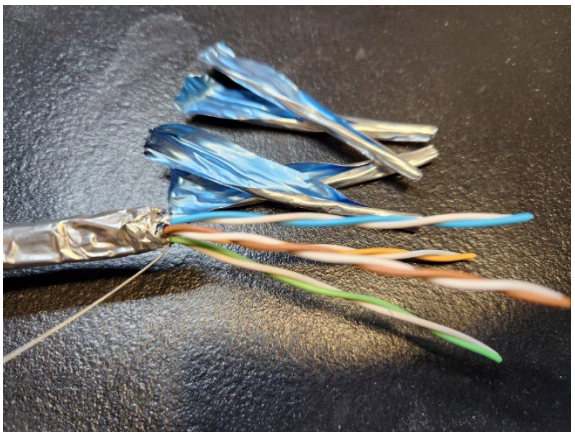
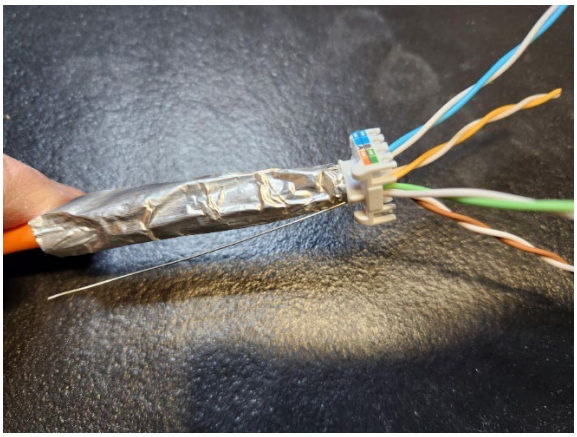
Minimum Termination Method to Achieve an Effective Shield Bond for F/FTP Cable Constructions onto AX0 Shielded Jacks

1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable.
   <u>Note:</u> The 75 mm strip length is required to provide sufficient drain wire length for the termination.

2. Pull back the outer foil (metal side outward) and pull back the drain wire.





3. Remove and discard the four pair foils, using care not to damage the outer foil, drain wire, or conductor insulation.

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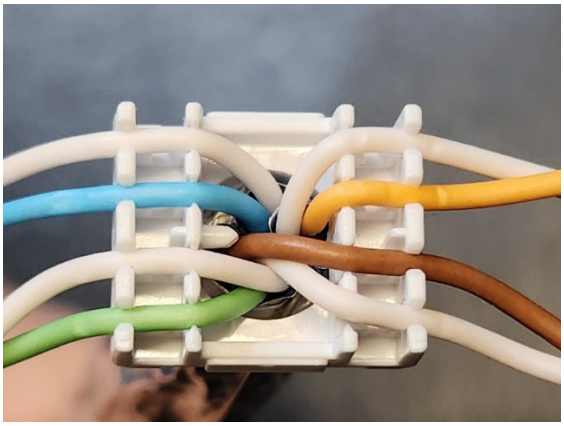
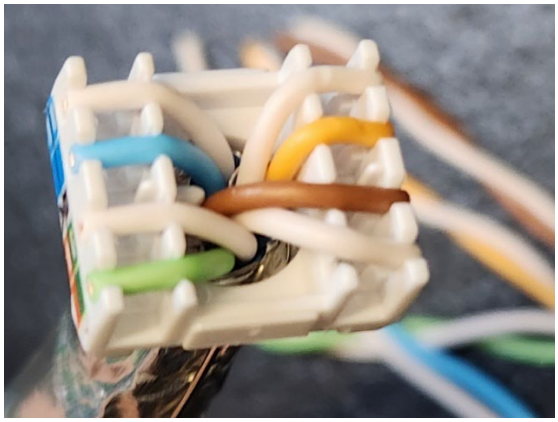
4. Pass pairs through the collar side of the wire manager.

5. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.





6. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.

7. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.

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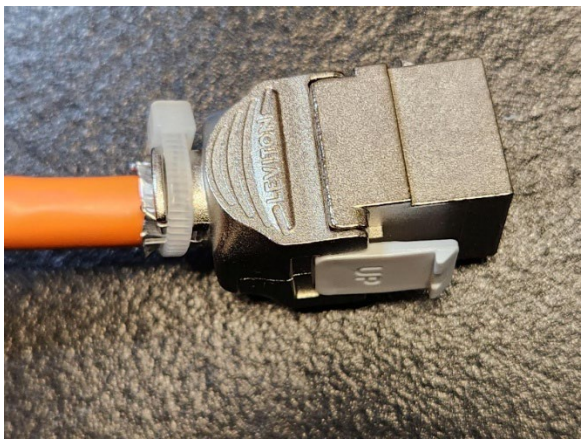
8. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.



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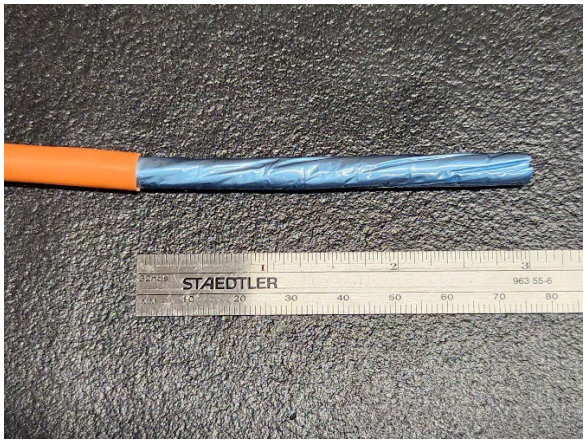
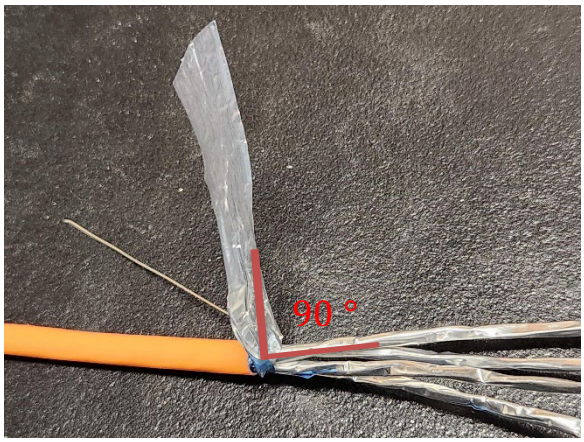
Termination Method where "360-degree screen" is required for Shield Bonding for F/FTP Cable Constructions onto AX0 Shielded Jacks – Method 1

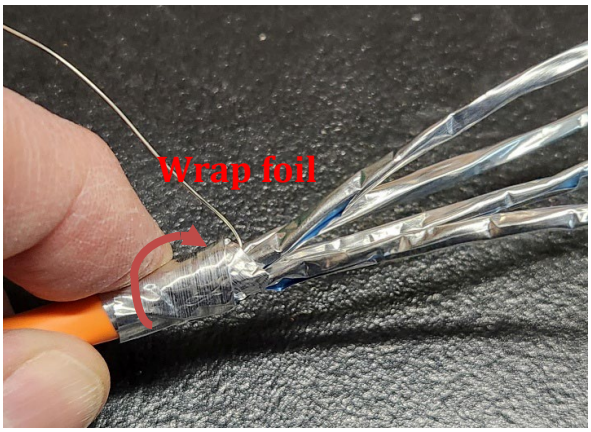
1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.





2. Straighten and flatten the outer foil to 90 degrees to the axis of the cable. Pull back the drain wire.
   Note: If the outer foil tears, then one of the other foils may be used.

3. Fold the foil lengthwise and metal side outward.
4. Wrap the foil around the cable jacket at the jacket strip point.
   ***Important!** Do not wrap foil on top of the drain wire!*



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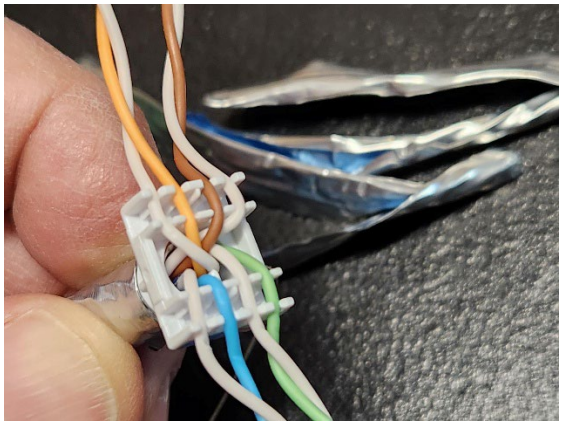
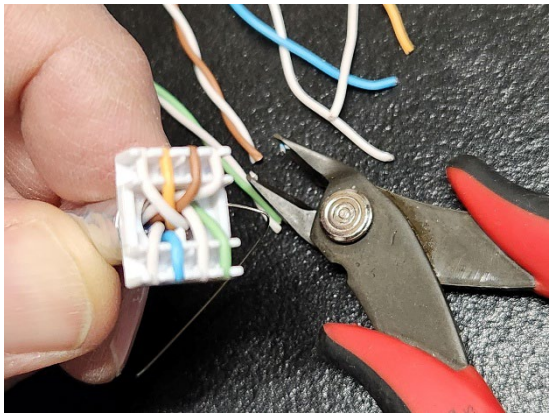
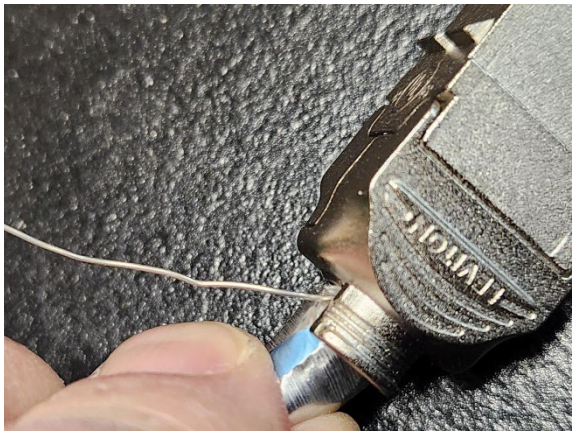
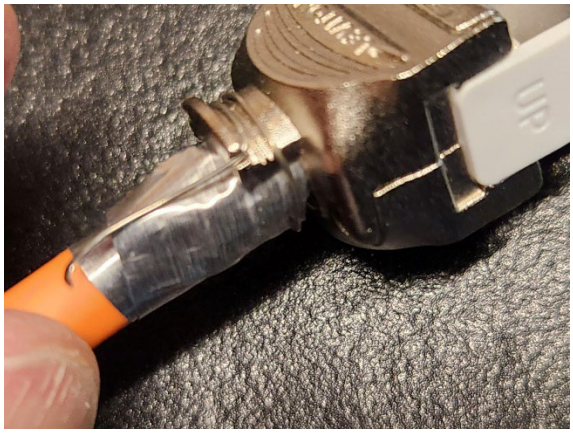




5. Cut off pair foils and discard. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.





6. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.

7. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.

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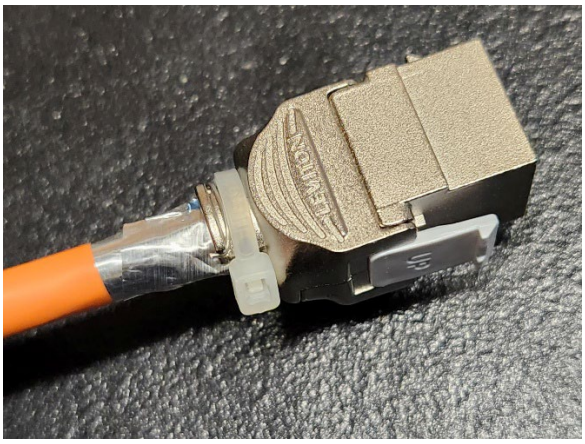

8. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail and excess drain wire length.

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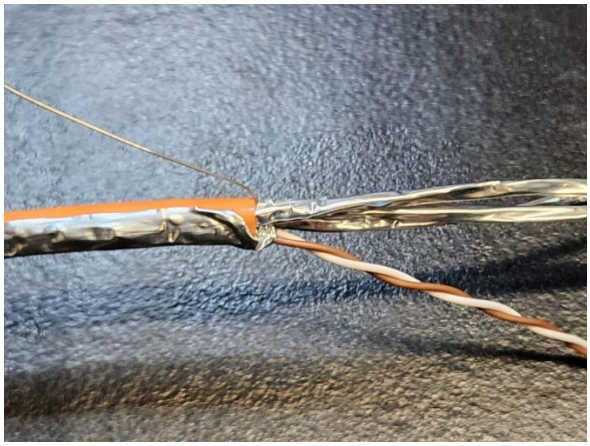
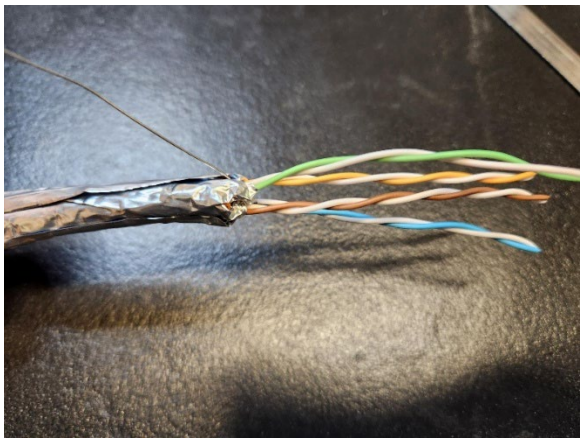
Termination Method where "360-degree screen" is required for Shield Bonding for F/FTP Cable Constructions onto AX0 Shielded Jacks – Method 2

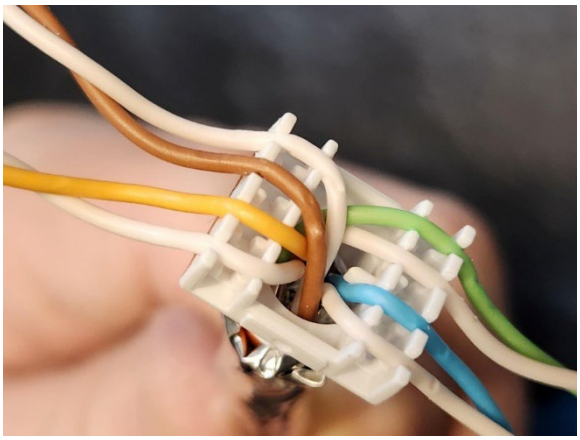
1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage foil, drain wire, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Remove and discard outer foil. Pull back the drain wire.
   Note: The 75 mm strip length is required to provide sufficient drain wire length for the termination.



2. Open the first pair foil, and with a half twist (to present metal side outward) pull the foil back along the cable jacket.

3. Pull the other three pair foils back along the cable jacket, metal side outward, distributing them around the cable jacket equally, to attain 360-degree screen coverage.





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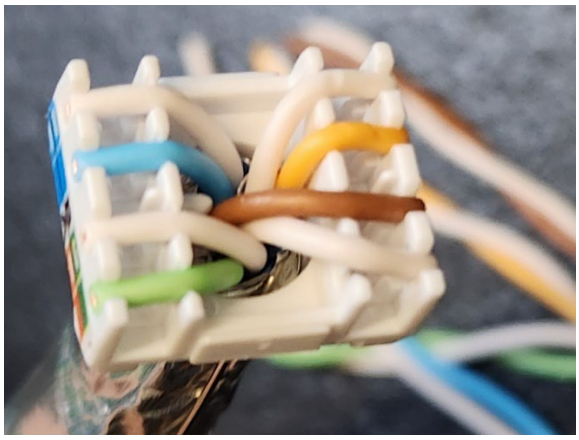
4. Route the pairs per the wiring label. Perform a visual polarity check and using a flush cutter, trim the pairs flush to the sides of the wire manager.



5. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and drain wire are not caught in the doors.

6. Wrap drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the drain wire in one of the flange notches.

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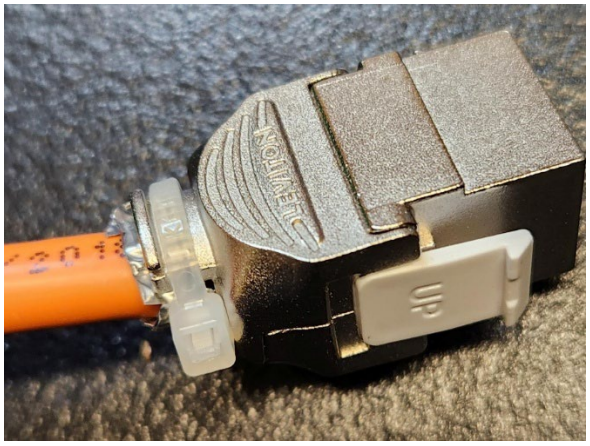

7. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.

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S/FTP Cable Constructions

The S/FTP cable construction is characterized by a separate foil around each of the four pairs and an overall braid shield.

The following Leviton cables utilize the S/FTP construction:

- Europe Category 6A
  - AC6S/FTP B2ca
  - AC6S/FTP Cca
  - AC6S/FTP Dca
  - AC6S/FTP Eca

- Europe Category 6
  - C6S/FTP B2ca
  - C6S/FTP Cca
  - C6S/FTP Dca
  - C6S/FTP Eca

- Europe Category 7
  - UM10 B2ca
  - UM10 Cca
  - UM10 Dca
  - UM10 Eca

- Europe Category 7A
  - UM12 B2ca
  - UM12 Cca
  - UM12 Dca
  - UM12 Eca

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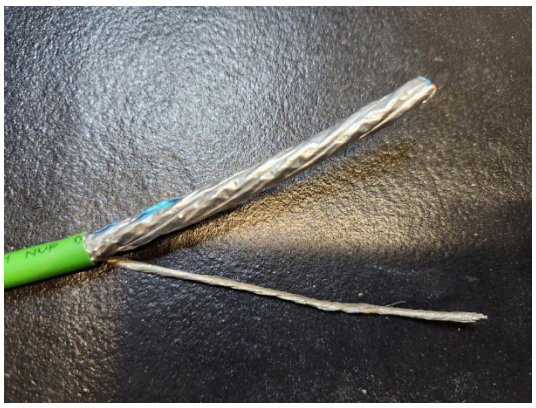
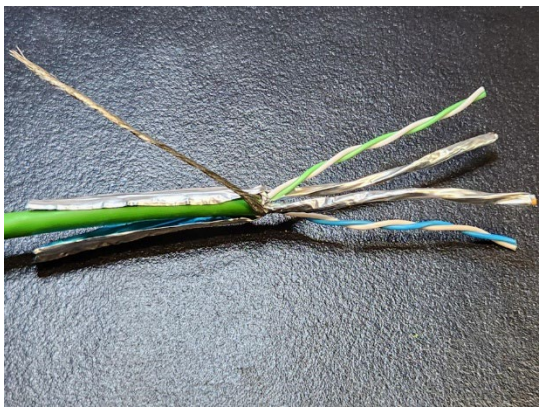
Minimum Termination Method to Achieve an Effective Shield Bond for S/FTP Cable Constructions onto AX0 Shielded Jacks

1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage shield braid, foil, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Comb out the braid strands.
   <u>Note:</u> The 75 mm strip length is required to provide sufficient braid length for the termination.

2. Twist the braid strands together to form a drain wire.

3. Open and pull back two opposing foils with a half-twist, so that they lay metal side outward. This may be either the blue and green pair foils, or the orange and brown pair foils. Pull back drain wire.

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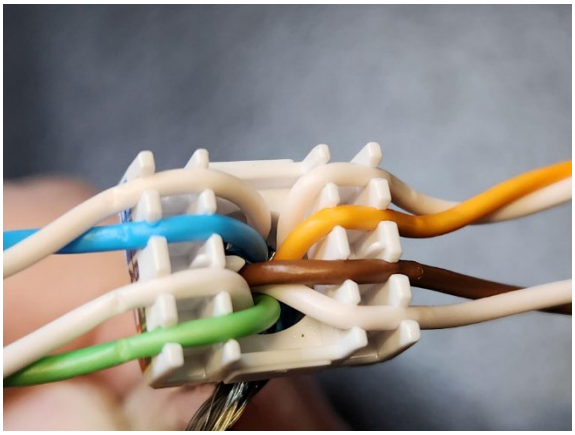
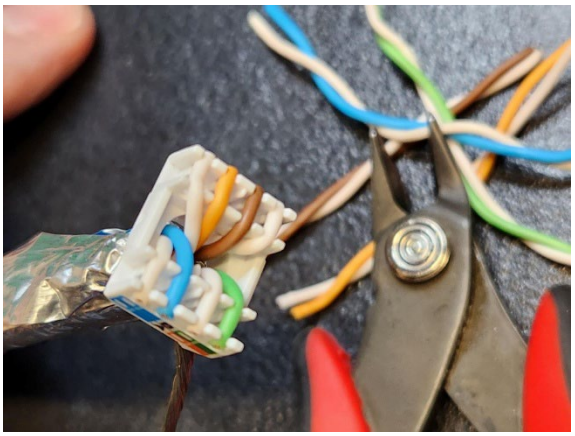
4. Trim off the other two foils and discard them.



5. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label and perform a visual polarity check. Using a flush cutter, trim the pairs flush to the sides of the wire manager.



6. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and braid drain wire are not caught in the doors.

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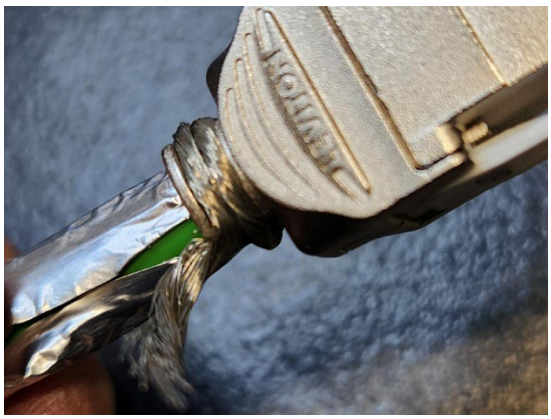
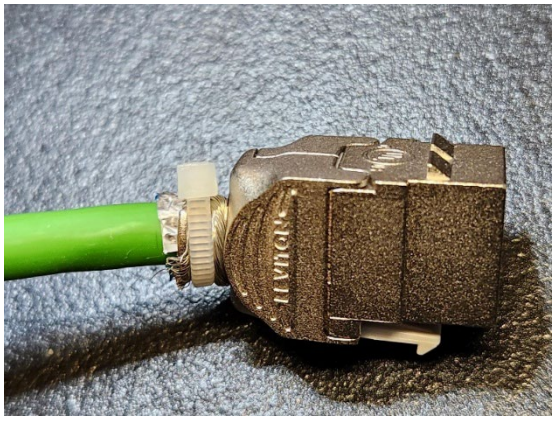
7. Wrap braid drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the braid drain wire in one of the flange notches.



8. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.



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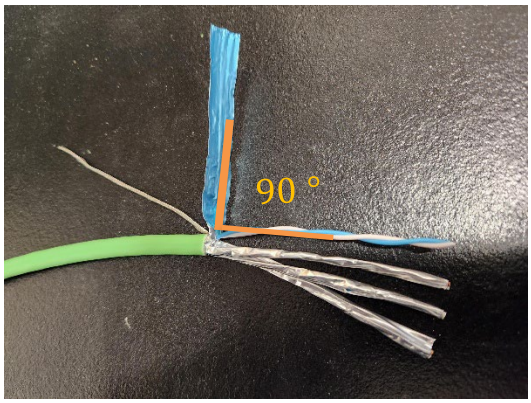
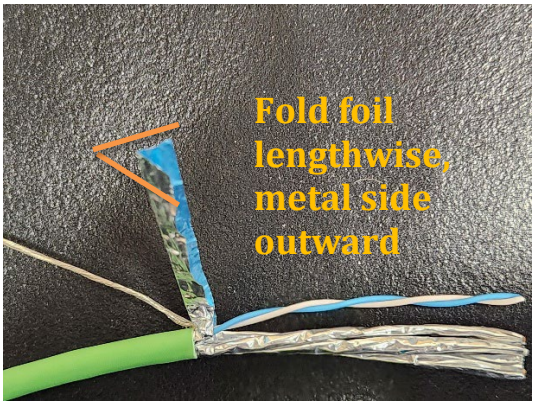
Termination Method where "360-degree screen" is required for Shield Bonding for S/FTP Cable Constructions onto AX0 Shielded Jacks – Method 1

10. Strip 75 mm (~3 inches) of cable jacket taking care not to damage shield braid, foil, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Comb out the braid strands.
    <u>Note:</u> The 75 mm strip length is required to provide sufficient braid length for the termination.

11. Twist the braid strands into a "drain wire".





12. Open one of the pair foils. Straighten and flatten it and pull it back 90 degrees to the axis of the cable.

13. Fold the foil in half, lengthwise, and metal side outward.

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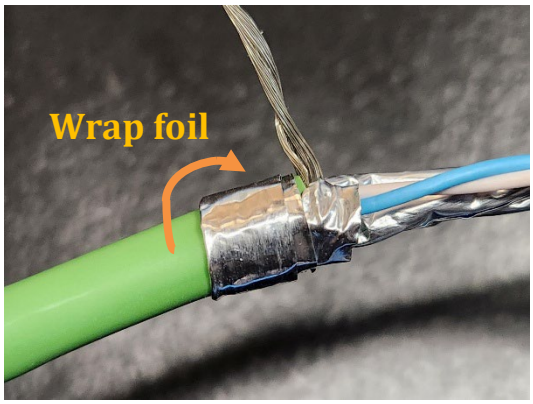
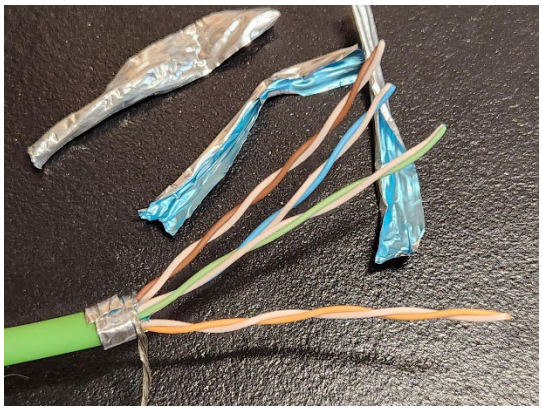
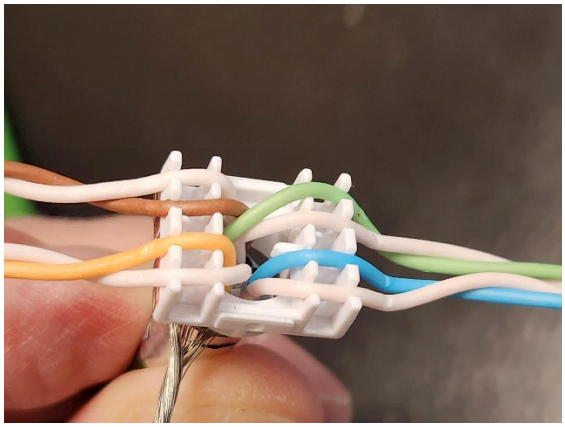
14. Wrap foil around cable jacket at cable strip point.
    Important! *Do not wrap foil on top of the drain wire!*
    Note: If foil tears, remove it and use a different pair foil.

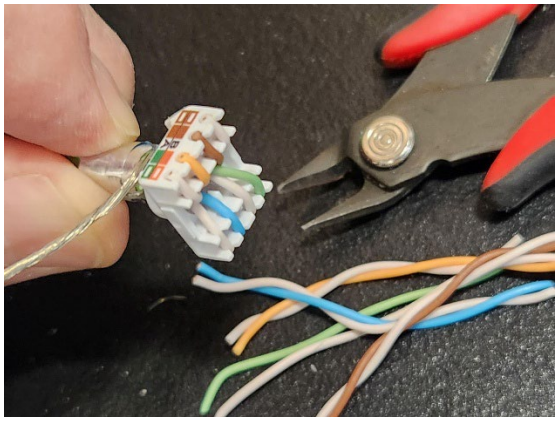




15. When a successful 360 degree cable wrap has been achieved, remove and discard the other foils.

16. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label and perform a visual polarity check. Using a flush cutter, trim the pairs flush to the sides of the wire manager.





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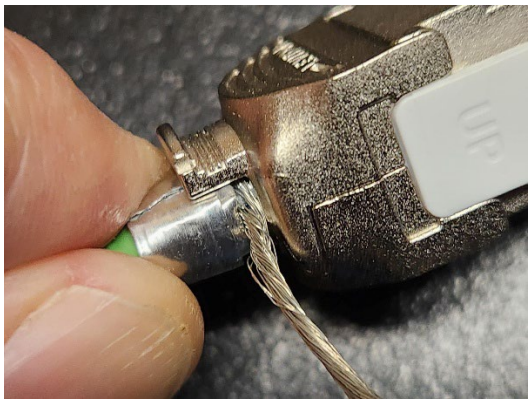
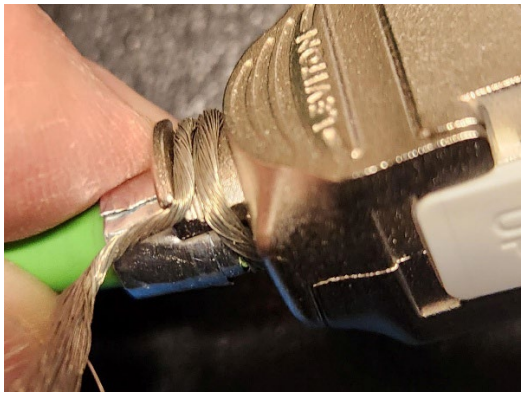
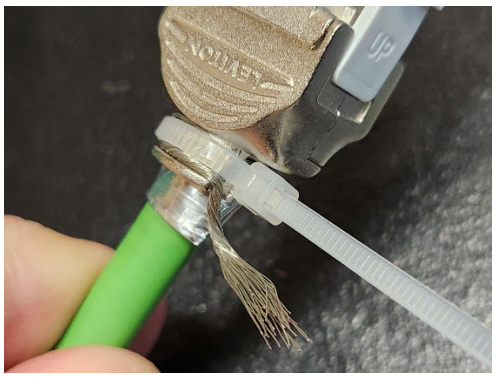
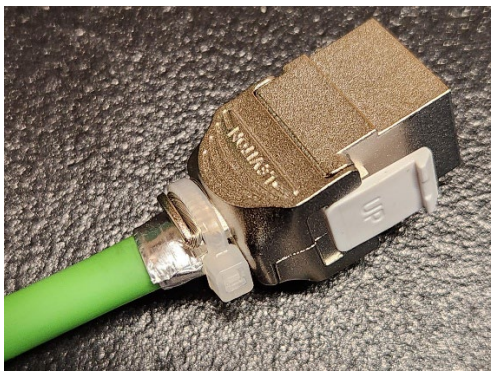
17. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and braid drain wire are not caught in the doors.





18. Wrap braid drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the braid drain wire in one of the flange notches.





19. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail and excess drain wire length.

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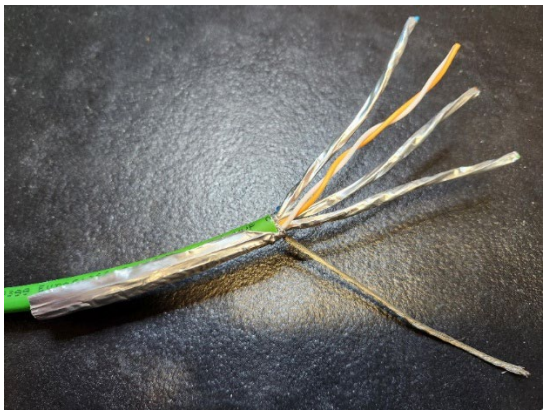
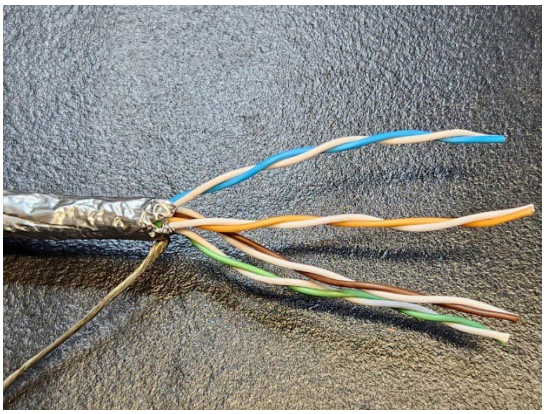
Termination Method where “360-degree screen” is required for Shield Bonding for S/FTP Cable Constructions onto AX0 Shielded Jacks – Method 2

1. Strip 75 mm (~3 inches) of cable jacket taking care not to damage shield braid, foil, or pair insulation. If damage occurs, cut off the damage and re-strip the cable. Comb out the braid strands.
   <u>Note:</u> The 75 mm strip length is required to provide sufficient braid length for the termination.





2. Twist the braid strands together to form a drain wire. Pull back drain wire. Open first pair foil and pull the foil back with a half-twist along the cable jacket, so that the foil is presented metal side outward. Do the same with the other three foils. Distribute foils around the cable jacket equally, to attain 360-degree screen coverage.

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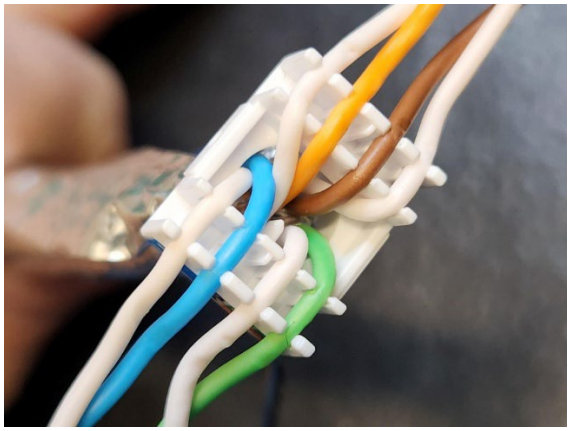
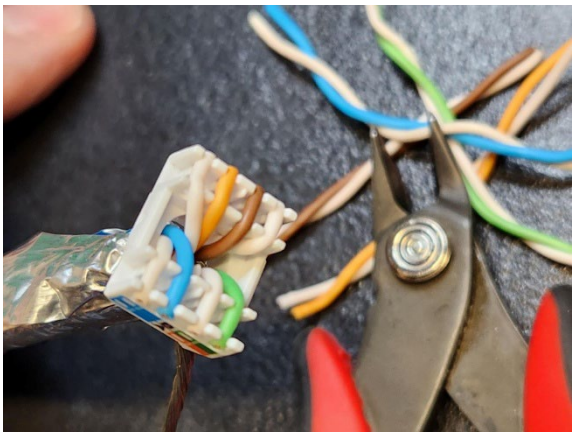
3. Pass pairs through the collar side of the wire manager. Route the pairs per the wiring label and perform a visual polarity check. Using a flush cutter, trim the pairs flush to the sides of the wire manager.





4. Align wire manager with jack and using fingers, close the jack doors, ensuring foil and braid drain wire are not caught in the doors.

5. Wrap braid drain wire around jack flange (either direction), ensuring drain wire lays in flange grooves, then secure the braid drain wire in one of the flange notches.

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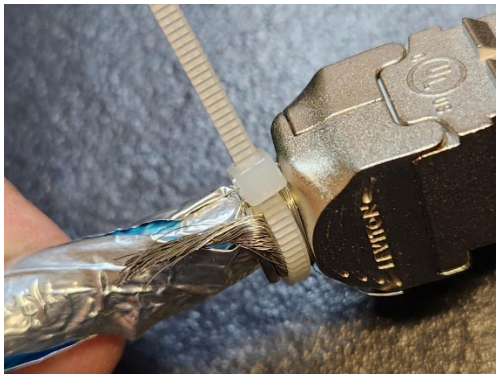

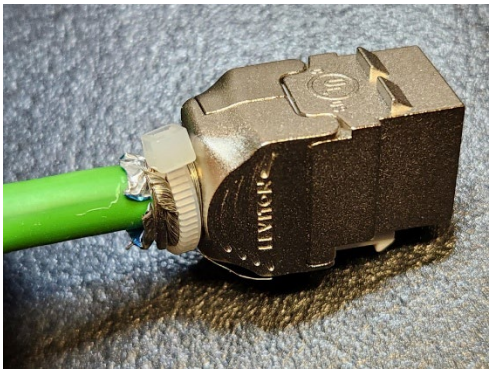

6. Apply a zip tie to clamp the drain wire and ensure good foil contact with the flange. Trim off zip tie tail, excess foil, and excess drain wire length.

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Summary of Termination Steps for each Cable Construction

Cable Construc-tion	Minimum acceptable shield termination	360-degree coverage shield termination Method 1	360-degree coverage shield termination Method 2	Comments
F/UTP	Pull back the single foil along the cable jacket, metal-side outward. Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	Pull single foil back to 90 degrees and fold in half length-wise, and metal side outward. Wrap foil around cable jacket at cable strip point. ***Important!*** *Do not wrap foil on top of the drain wire!* Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess drain wire length.	(No alternate 360 degree method for F/UTP cables)	360-degree is achievable with F/UTP cables but requires a more time-consuming administration of the foil. Foil is pulled back metal side outward to enable bonding between the foil and the jack body.

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Cable Construc-tion	Minimum acceptable shield termination	360-degree coverage shield termination Method 1	360-degree coverage shield termination Method 2	Comments
U/FTP	Pull back two opposing foils along the cable jacket, metal-side outward (i.e., blue pair and green pair foils, or orange pair and brown pair foils). *Note: Foils will need a half-twist to be metal-side outward.* Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	Pull one pair foil back 90 degrees to axis of cable. Fold foil in half lengthwise and metal side outward. Wrap foil around cable jacket at cable strip point. ***Important!*** *Do not wrap foil on top of the drain wire!* If the foil tears, use one of the other pair foils. Remove and discard the other pair foils. Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess drain wire length.	Pull back all four foils with a half-twist, along the cable jacket, metal-side outward. Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	When two foils are used, upon jack closure one of the foils must be under the jack flange (re-position a foil, if necessary). Where four foils are used, the foils should be carefully arranged to ensure 360-degree foil coverage. Foils are pulled back metal side outward to enable bonding between the foil and the jack body.

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Cable Construc-tion	Minimum acceptable shield termination	360-degree coverage shield termination Method 1	360-degree coverage shield termination Method 2	Comments
F/FTP	Pull back the outer foil along the cable jacket, metal-side outward. Cut off the other four foils (the "pair foils"). Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	Pull outer foil back 90 degrees to axis of cable. Fold foil in half lengthwise and metal side outward. Wrap foil around cable jacket at cable strip point. ***Important!*** *Do not wrap foil on top of the drain wire!* If outer foil tears, use one of the pair foils. Remove and discard the other pair foils. Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess drain wire length.	Cut off the outer foil. Pull back all four foils with a half-twist, along the cable jacket, metal-side outward. Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	Where four foils are used, the foils should be carefully arranged to ensure 360-degree foil coverage. Foils are pulled back metal side outward to enable bonding between the foil and the jack body.

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Cable Construc-tion	Minimum acceptable shield termination	360-degree coverage shield termination Method 1	360-degree coverage shield termination Method 2	Comments
S/FTP	After jacket strip, comb out the braid strands. Gather the strands and twist them into a "drain wire". Pull back two opposing foils along the cable jacket, metal-side outward (i.e., blue pair and green pair foils, or orange pair and brown pair foils). *Note: Foils will need a half-twist to be metal-side outward.* Wrap "drain wire" around jack flange and in the flange grooves. Secure "drain wire" in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	After jacket strip, comb out the braid strands. Gather the strands and twist them into a "drain wire". Pull a pair foil back 90 degrees to axis of cable. Fold foil in half lengthwise and metal side outward. Wrap foil around cable jacket at cable strip point. ***Important!*** *Do not wrap foil on top of the drain wire!* If the foil tears, use one of the other pair foils. Remove and discard the other pair foils. Wrap drain wire around jack flange and in the flange grooves. Secure drain wire in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess drain wire length.	After jacket strip, comb out the braid strands. Gather the strands and twist them into a "drain wire". Pull back all four foils with a half-twist, along the cable jacket, metal-side outward. Wrap "drain wire" around jack flange and in the flange grooves. Secure "drain wire" in flange notch. Apply zip-tie to clamp drain wire and foil to flange. Cut off zip-tie tail and excess foil and drain wire lengths.	When two foils are used, upon jack closure one of the foils must be under the jack flange (re-position a foil, if necessary). Where four foils are used, the foils should be carefully arranged to ensure 360-degree foil coverage. Foils are pulled back metal side outward to enable bonding between the foil and the jack body.

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