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Doing It Right

INSTALLATION INSTRUCTIONS

Nonmetallic Air Ducts & Air Connectors with Plain Ends
UL 181 Listed Under File MH9596, 9844

APPLICATION:

Air ducts and air connectors may be connected to any round sheet metal fitting (collar, pipe coupling, etc.) or spliced to any other duct of a corresponding nominal size.

PROCEDURE:

1. Follow detailed instructions on right side of page for making connections/splices.
2. Select and use appropriate tools/materials listed below.
3. Follow "Precautions" listed below.
4. Refer to installation guidelines on reverse side of page.

TOOLS AND ACCESSORY MATERIALS REQUIRED:

1. Knife or Scissors/Wire Cutter: Use knife or scissors to cut duct wall. Use wire cutters to cut spiral wire helix.
2. Duct Tape: Use only tapes that have been listed and labeled to Standard UL 181B and marked "181B -FX". Use two wraps of 1-1/2 inch minimum width.
NOTE: When aluminum foil tapes are required, use only tapes that have been listed and labeled to Standard UL 181A and marked "181A-P". Use one wrap of 2-1/2 inch minimum width.
3. Metal Clamp/Screw Driver: Use for low, medium or high pressure systems up to 10 inch w.g.
4. Non-Metallic Mechanical Fastener (Plastic Clamp)/Fastener Tool: Use for low to medium pressure systems up to 6 inch w.g. maximum positive pressure. Non-Metallic Mechanical Fasteners are limited to use with beaded collars and fittings. Use only non-metallic fasteners that have been listed and labeled to Standard UL 181B and marked "181B-C". Use the appropriate tightening tool per the fastener manufacturer's instructions.
5. Mastic: Use mastic that has been listed and labeled to Standard UL 181B and marked "181B-M" on container. (Apply mastic approximately 2 inches wide uniformly around the collar of the metal fitting. Slide at least 1" of core over the fitting and secure with clamp.) Reference data provided on the mastic container for application and handling information.

PRECAUTIONS:

- Do not use "outdoors" or install where duct can be exposed to direct sunlight. Prolonged exposure may cause degradation of vapor barrier. (does not apply to 040 Mobile Home Ducts)
- Do not install where duct can be exposed to UV radiation from bio-treatment lamps within the HVAC system. Exposure may cause degradation of the inner core.
- Do not exceed published pressure or temperature limits.
- Do not use duct to hang or support any diffuser, register or other equipment during installation.
- Do not use screws or barbed fitting to make connections on ducts with plain ends.
- Duct should be supported at 5' maximum intervals unless resting on ceiling joists or truss supports.
- Do not use on oval collars for medium or high pressure.

WARNING

INSULATED FLEXIBLE DUCT CONTAINS FIBER GLASS WOOL WHICH HAS BEEN CLASSIFIED AS A POSSIBLE CANCER HAZARD BY INHALATION. FIBER GLASS WOOL MAY CAUSE TEMPORARY IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

TAKE THE FOLLOWING PRECAUTIONARY MEASURES WHEN HANDLING OR INSTALLING PRODUCTS WITH FIBER GLASS WOOL:

- Use a properly fitted NIOSH or MSHA approved dust/mist respirator.
- Avoid breathing fiber glass dust.
- Avoid contact with skin and eyes.
- Wear long-sleeved, loose fitting clothing, gloves and eye protection.
- Wash with soap and warm water after handling.
- Wash work clothes separately and rinse washer thoroughly.

CONSULT THE APPROPRIATE Material Safety Data Sheet for further details. For more information about fiber glass wool, please contact: Technical Dept., ATCO Rubber Products, Inc.,
7101 Atco Drive, Ft. Worth, Texas 76118, Tel:(817) 595-2894.

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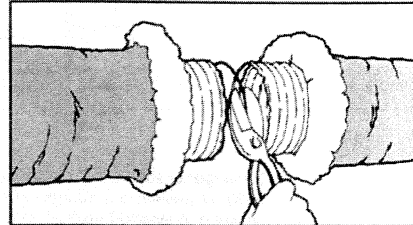
1000 E. Woodfield Road
Suite 102
Schaumburg, IL 60173-5921
www.flexibleduct.org

INSTALLATION INSTRUCTIONS

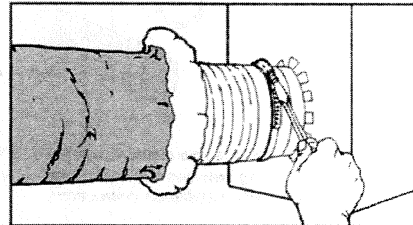
Air Ducts and Air Connectors
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Connections

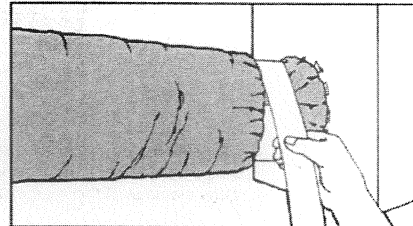
1. After desired length is determined, cut completely around and through duct with knife or scissors. Cut wire with wire cutters. Fold back jacket and insulation.



2. Slide at least 1" [25 mm] of core over fitting and past the bead. Seal core to collar with at least 2 wraps of duct tape. Secure connection with clamp placed over the core and tape and past the bead.

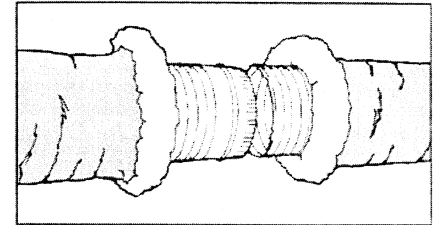


3. Pull jacket and insulation back over core. Tape jacket with at least 2 wraps of duct tape. A clamp may be used in place of or in combination with the duct tape.

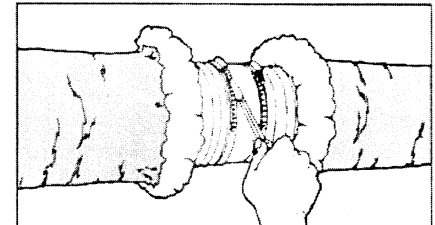


Splices

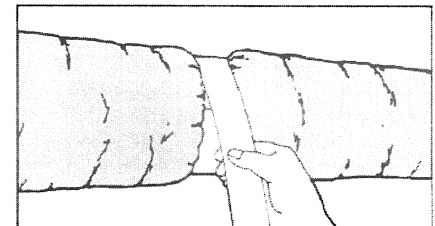
1. Fold back jacket and insulation from core. Butt two cores together on a 4" [100 mm] length metal sleeve.



2. Tape cores together with at least 2 wraps of duct tape. Secure connection with 2 clamps placed over the taped core ends and past the beads.



3. Pull jacket and insulation back over cores. Tape jackets together with at least 2 wraps of duct tape.



NOTES:

1. For uninsulated air ducts and air connectors, disregard references to insulation and jacket.
2. Use beaded sheet metal fittings and sleeves.
3. Use tapes listed and labeled in accordance with Standard UL 181B and marked "181B-FX".
4. Nonmetallic clamps shall be listed and labeled in accordance with Standard UL 181B and marked "181B-C". Use of nonmetallic clamps shall be limited to 6 in. w.g. [1500 Pa] positive pressure.

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