



# UPC #050



## UPC #050 25' Uninsulated UL 181 Class 1 Air Connector

### UPC #050

ATCO's UPC #050 is a UL Listed Class 1 Flexible Air Connector which meets the requirements of NFPA 90A & 90B. UPC #050 is designed for low to medium operating pressures in residential and commercial HVAC systems.

### Construction

A triple lamination of tough metallized polyester, aluminum foil, and polyester encapsulates a high-carbon, steel wire helix and forms the air-tight uninsulated flexible duct. UPC #050 is manufactured in 25' lengths, which can be easily cut for installation. It is compressed and packed in small, easy to store cartons.

### FEATURES & BENEFITS

**Air-tight** – Energy efficient

**Encapsulated Wire Helix** – No unraveling when cut to length / Quick installation

**Smooth Inner Core** – Low friction loss / Low operating cost

**Highly Resistant to Mold Growth** – Tested and Listed to UL Environment's Standard UL 2824

**Certified for Low Chemical Emissions** – Tested and Certified to UL Environment's Standard UL 2818

**Lightweight Compact Carton** – Reduces warehouse and jobsite handling cost

### APPLICATIONS & CODE COMPLIANCES

ATCO's UPC #050 is used as a supply, return, and exhaust duct in low-to-medium pressure residential and commercial heating, air conditioning, and exhaust systems. UPC #050 can be used in an air distribution system, connecting ducts, mixing boxes, diffusers, light troffers, room inlets, or other terminal devices where an uninsulated flexible air connector is required.

**UPC #050 should not be used to vent appliances for cooking, heating, and clothes drying unless approved and recommended by the appliance manufacturer.**

UL 181, NFPA 90A & 90B, IMC, IRC, UMC (ICC ES REPORT NO. ESR-1268), HUD, Cities of Chicago, New York, San Francisco, County of Dade (Florida), California State Fire Marshal.\*

\*ATCO recommends that you check with the local code body having jurisdiction in your area to determine applicable codes.

# PRODUCT & PERFORMANCE DATA

## PRODUCT DATA

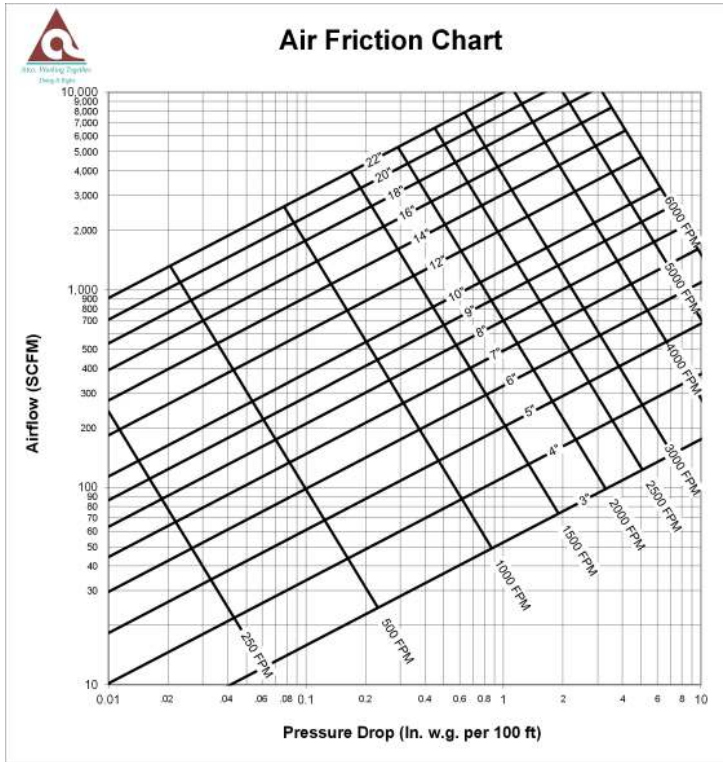
Length: 25'  
 Diameter: 3" – 10" all diameters, plus 12" – 20" even diameters  
 End Treatment: 25' – plain ends  
 Packaging: 3-4" = 4 pieces per carton / 5-20" = 1 piece per carton

## INSTALLATION

Air duct connections and joints shall be made per installation instructions outlined by ATCO Rubber Products, Inc. and as required by the UL 181 listing procedure.  
 (Installation instructions included with product packaging)

## STRAIGHT RUN

\*FD 72-R1 Test code of the Air Diffusion Council. Friction loss is reported in inches of water gauge per 100ft of duct. By using CFM or FPM values for a given duct dimension, the friction loss can be determined. Conversion of CFM to FPM also can be made.



## PERFORMANCE DATA

- Rated Positive Pressure: 15" w.g. 3" thru 16" dia. / 10" w.g. 18" thru 20" dia. per UL-181 (UL Listed pressure ratings are determined in straight lengths @ ambient temperatures.)
- Rated Negative Pressure: 3/4" w.g. 3" thru 20" dia.
- Rated Maximum Velocity: 5,000 FPM
- Recommended Operating Pressures: 6" w.g. max for 3" thru 12" dia., 4" w.g. max for 14"-20" dia. (Determined in a 90° bend at elevated temperatures in accordance with ADC FD 72-R1 Test Code.)
- Vapor Transmission: .05 perms
- Maximum Operating Temperatures:
  - 20°F to 140°F Continuous (@ maximum pressure)
  - 20°F to 180°F Continuous (@ 2" pos. w.g. max)
  - 20°F to 250°F Intermittent (@ 1/2" pos. w.g. max)
- Flame Spread: 25 max
- Smoke Developed: 50 max



**Warranty** – ATCO warrants that all flexible ducts will be free from defects in material and workmanship for a period of five years from the date of purchase only if the ducts are installed in accordance with ATCO's installation instructions and under conditions specified in ATCO's performance data. The buyer's exclusive remedies for any defect in the flexible ducts shall be replacement or refund of the purchase price, at ATCO's option. ATCO MAKES NO OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE. IN PARTICULAR, ATCO MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ATCO SHALL HAVE NO LIABILITY TO THE BUYER OR ANY THIRD PARTY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, LOST PROFITS OR OTHER ECONOMIC INJURY DUE TO ANY DEFECT IN THE FLEXIBLE DUCTS. MATERIALS AND SPECIFICATIONS FOR THE FLEXIBLE DUCTS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

### Manufacturing & Shipping Locations



Baltimore, MD • Cartersville, GA • Crawfordsville, IN  
 Fort Worth, TX • Houston, TX • Phoenix, AZ  
 Plainville, GA • Plant City, FL • Sacramento, CA  
 Springdale, AR • Vineland, NJ

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