

FS - Series

Specification **Flat Spiral Duct** Insulated

Application

Movement of conditioned air from air handler to aircraft, forward of jet bridge.

Construction: Spiral sewn construction

Product Features

- PVC Material is UV Resistant and mildew resistant
- Compressibility allows for convenient storage. (roll up or fold)
- **Wear Strip offers high external abrasion resistance**
- TPU Wearstrip
- All sewn parts are done with lock stitch

Insulation: 3/32" thick Polyethylene Foam
Double insulation available

Fabric Temperature range: minus 40 degree to plus 180 degree Fahrenheit

Standard color: Outer layer: Yellow **Inner layer:** yellow, white or black other colors available

Diameter range: 8", 10", 12" and 14" dia. are Standard
other Diameters are available

Length range: 10', 15', 20', 25', 30' are standard lengths
other lengths are available

End Finishes/Coupling Systems:

Velcro, Zipper or Soft Cuffs

Male to Female coupling on the Velcro and Zipper cuffs

Soft Cuffs get clamped to the Air handler or Aircraft connector.

Custom Cuffs are available

Also available: non insulated which is a linear welded single layer tube.

With cuffs of your choice on each end.



Materials: Inner Layer: 10oz. PVC Coated Polyester (1000 Denier x 1000 Denier)

Outer Layer: 10oz. PVC Coated Polyester

BASE FABRIC	
Weight	5 oz PSY
Fiber	Polyester
Fabric Style	Woven

COATED FABRIC	Mildew & Ultra Violet Resistant
Total Weight	18 +/- 0.5 oz PSY
Type of Coating	Poly Vinyl Chloride
Coating Distribution	60% front / 40% back
Width	61 "
Sealing Properties	<input checked="" type="checkbox"/> Dielectric <input checked="" type="checkbox"/> Thermal

MECHANICAL PROPERTIES	RESULTS	TEST METHODS		
		Fed. Std. 191A	ASTM	
Grab Tensile: Warp	400 Lbs	5100	D5034	
	Fill			390 Lbs
Strip Tensile: Warp (1")	290 Lbs	5102	D5035	
	Fill (1")			280 Lbs
Tongue Tear: Warp	90 Lbs	5134	D751	
	Fill			85 Lbs
Adhesion: Adhesive	10 Lbs			
Abrasion (Taber): Wheel: H-18 Load: 1,000 gr 1,000 Cycle, 70 rpm	0.045 gr	5106	D3884	
Hydro Resistance:	500 PSI	5512		
Low Temperature:	-40 degrees F			
Flame Resistance: Time of Afterflame	1.0	5903		
	NFPA 701 (Large Scale)			Pass
	NFPA 701 (Small Scale)			Pass
	FAR 25.853 (b)			Pass
	California Fire Marshal.			Pass

Wear Strip: Thermo Plastic Elastomer (TPE)

Thread: High tenacity plied and twisted UVR Bonded Filament
Polyester Tread
TEX 135
Elongation 15%