



FLEXIBLE DUCT CONNECTOR



ASTM E - 84 Class 1
NFPA 701 (UL 214)
BS 476, Part 7 - Class 1
BS 476, Part 6 - Class 0



Flexible Duct Connectors

Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications	Features
Vinyl					
V-GB-145-100	45 x 75 x 45	100	28	Basic Fabric : Polyester Yarn Coating : Vinyl Weight : 28gauge 576 gms /sq.mtr 17oz /sq. yard 24gauge 745 gms /sq.mtr 22oz /sq. yard Tear Strength : 45 x 45 kgs 100 x 100 lbs Tensile Strength : 108 x 100 kgs 240 x 220 lbs Low Temp : -40 deg C/-40 deg F High Temp : +93 deg C/ 200 deg F	Vinyl is the most commonly used fabric for all air duct installations due to its high tear strength, and its high abrasion resistance. Recommended for low to medium pressure ductwork systems. Airtight and waterproof construction.
V-GB-230-100	70 x 100 x 70	100	28		
V-GB-145-150	45 x 75 x 45	150	28		
V-GB-230-150	70 x 100 x 70	150	28		Meets the requirements of NFPA 701 (formerly UL 214)
V-G4-225-100	75 x 75 x 75	100	24		
V-G4-250-100	75 x 100 x 75	100	24		
V-G4-300-100	75 x 150 x 75	100	24		Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
V-G4-350-100	100 x 150 x 100	100	24		
Neoprene BS					
BSN-G8-145-100	45 x 75 x 45	100	28	Basic Fabric : Woven Fibreglass Coating : Neoprene Weight : 1016 gms /sq.mtr 30 oz/sq. yard Tear Strength : 5.5 x 5.5 kgs 12 x 12 lbs Tensile Strength : 226 x 204 kgs 500 x 450 lbs Low Temp : -40 deg C (-40 deg F) High Temp : 93 deg C (200 deg F)	Neoprene is recommended for use in application where high mechanical strength is required. Neoprene is extremely resistant to most alkalies, gasoline and toxic fumes. Airtight and waterproof construction.
BSN-G8-230-100	70 x 100 x 70	100	28		
BSN-G8-145-150	45 x 75 x 45	150	28		
BSN-G8-230-150	70 x 100 x 70	150	28		Meets the requirements of NFPA 701 (formerly UL 214)
BSN-G4-225-100	75 x 75 x 75	100	24		
BSN-G4-250-100	75 x 100 x 75	100	24		
BSN-G4-300-100	75 x 150 x 75	100	24		Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
BSN-G4-350-100	100 x 150 x 100	100	24		
					Rated Class 1 as per BS 476, part 7 Flame Tests

Silicon

S-G8-145-100	45 x 75 x 45	100	28	Basic Fabric : Woven Fibreglass Coating : Silicon Rubber Weight : 627 gms /sq.mtr : 18.5 oz/sq. yard Tear Strength : 27 x 22 kgs 60 x 50 lbs Tensile Strength : 81 x 90 kgs 180 x 200 lbs Low Temp : -40 deg C (-40 deg F) High Temp : 300 deg C (573 deg F)	Silicon fabric has a special Silicon Rubber coating that has excellent resistance to high and low temperatures. Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt. Recommended for applications where high temperature is of main concern in both indoor and outdoor installations. Airtight and waterproof construction.
S-G8-230-100	70 x 100 x 70	100	28		
S-G4-225-100	75 x 75 x 75	100	24		
S-G4-250-100	75 x 100 x 75	100	24		Meets the requirements of NFPA 701 (formerly UL 214) Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
S-G4-300-100	75 x 150 x 75	100	24		
S-G4-350-100	100 x 150 x 100	100	24		

Hypalon

H-G8-145-100	45 x 75 x 45	100	28	Basic Fabric : Woven Fibreglass Coating : Hypalon Weight : 780 gms /sq.mtr : 23 oz/sq. yard Tear Strength : 22 x 18 kgs : 48 x 39 lbs Tensile Strength : 102 x 138 kgs : 225 x 200 lbs Low Temp : -40 deg C (-40 deg F) High Temp : 121 deg C (250 deg F)	Hypalon coated fabric has the best resistance to ozone layer, and is the first choice for outdoor applications. It has excellent resistance to weathering, acids and is recommended for roof top applications. Airtight and waterproof construction
H-G8-230-100	70 x 100 x 70	100	28		
H-G4-225-100	75 x 75 x 75	100	24		
H-G4-250-100	75 x 100 x 75	100	24		
H-G4-300-100	75 x 150 x 75	100	24		
H-G4-350-100	100 x 150 x 100	100	24		
					Meets the requirements of NFPA 701 (formerly UL 214)
					Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics

Polyurethane

P-G8-145-100	45 x 75 x 45	100	28	Basic Fabric : Woven Fibreglass Coating : Polyurethane Weight : 460 gms /sq.mtr : 13 oz/sq. yard Tear Strength : 16 x 14 kgs : 35 x 30 lbs Tensile Strength : 75 x 82 kgs : 165 x 180 lbs Low Temp : -40 deg C (-40 deg F) High Temp : 200 deg C (392 deg F)	Polyurethane coated fabrics are fragile in construction but have a longer resistance period to high temperatures. Airtight and waterproof construction
P-G8-230-100	70 x 100 x 70	100	28		
P-G4-225-100	75 x 75 x 75	100	24		Meets the requirements of NFPA 701 (formerly UL 214)
P-G4-250-100	75 x 100 x 75	100	24		
P-G4-300-100	75 x 150 x 75	100	24		Rated Class 1 as per BS 476, Part 7 Tests. Rated Class 0 as per BS 476, Part 6 Tests.
P-G4-350-100	100 x 150 x 100	100	24		
					Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics

Canvas

C-G8-145-100	45 x 75 x 45	100	28	Basic Fabric : Canvas Weight : 535 gms /sq.mtr : 16 oz/sq. yard Tear Strength : 4 x 4 kgs : 9 x 9 lbs Tensile Strength : 127 x 96 kgs : 280 x 210 lbs Low Temp : -40 deg C (-40 deg F) High Temp : 93 deg C (200 deg F)	Traditional Canvas cloth used for air conditioning and ventilating applications, indoors and outdoors. Airtight and waterproof construction
C-G8-230-100	70 x 100 x 70	100	28		
C-G8-280-100	70 x 150 x 70	100	28		Fire rated as per EN 532 and EN 533.
C-G8-300-100	75 x 150 x 75	100	28		
C-G4-300-100	75 x 150 x 75	100	24		

All AERODUCT connectors utilise galvanised steel meeting ASTM A-525-G60 standards.

All AERODUCT connectors are designed to meet NFPA 90A & 90B standards.

Sizes other than above can be manufactured on request.

Stainless steel option is also available for the complete range.

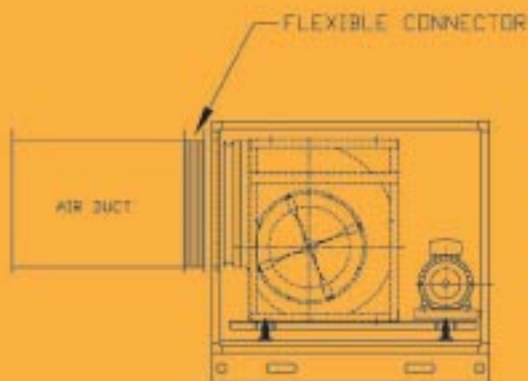


Duct Fabric

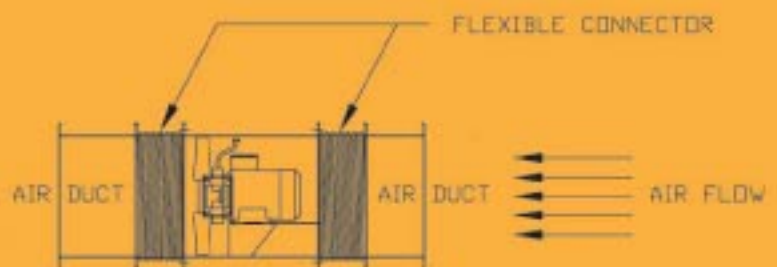
The complete range of AERODUCT fabrics are also available without metal for customers who have the need for only the fabric. Standard roll widths are given in the table and are available in lengths of 100 feet. Other widths and lengths are available on request.

Fabric	Model No.	Width of Fabric	Length
Vinyl	V-75-100	3' (75 mm)	100 feet
Vinyl	V-100-100	4' (100 mm)	100 feet
Vinyl	V-150-100	6' (150 mm)	100 feet
Neoprene BS	BSN-75-100	3' (75 mm)	100 feet
Neoprene BS	BSN-100-100	4' (100 mm)	100 feet
Neoprene BS	BSN-150-100	6' (150 mm)	100 feet
Silicon	S-75-100	3' (75 mm)	100 feet
Silicon	S-100-100	4' (100 mm)	100 feet
Silicon	S-150-100	6' (150 mm)	100 feet
Hypalon	H-75-100	3' (75 mm)	100 feet
Hypalon	H-100-100	4' (100 mm)	100 feet
Hypalon	H-150-100	6' (150 mm)	100 feet
Polyurethane	P-75-100	3' (75 mm)	100 feet
Polyurethane	P-100-100	4' (100 mm)	100 feet
Polyurethane	P-150-100	6' (150 mm)	100 feet

TYPICAL APPLICATION



FAN COIL / AIR HANDLING UNITS



EXHAUST FANS

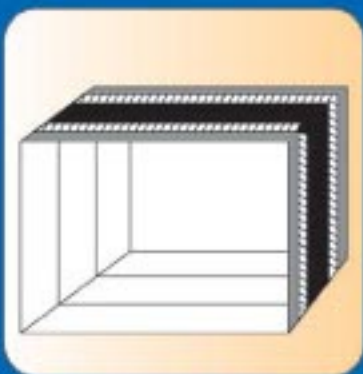
Ensure that the notched side of the connector faces outward and position the joint in the middle of a side rather than at a corner.



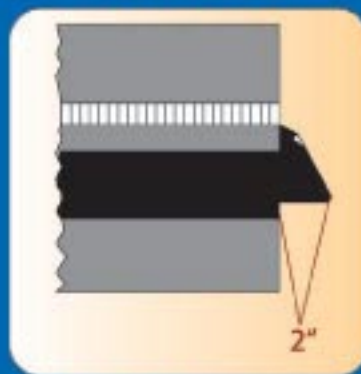
Remove the roll from the box, and cut the connector to the required length.



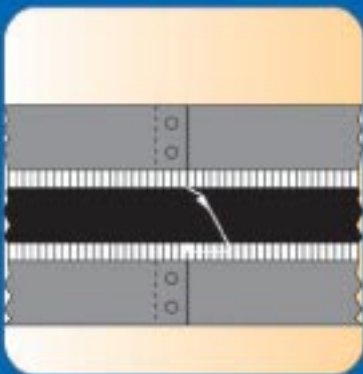
Holding the seam portion upwards to an angle of 90 degrees, make notches at the points where bending is required.



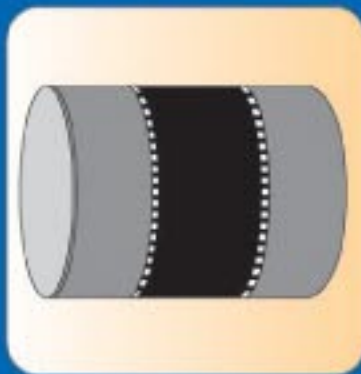
Bend the connector to form the required shape.



From the end of the connector, cut away the metal portion exposing only the fabric, with length of around 2 inches.



Join the two ends of the sheet metal by using rivets or screws. Apply a liberal amount of adhesive on the fabric portion under the tongue, and hold the joint for few seconds to ensure the seal.



Round Flexible connections can also be fabricated using the same procedure.