



# **FLEXIBLE DUCT CONNECTOR**

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

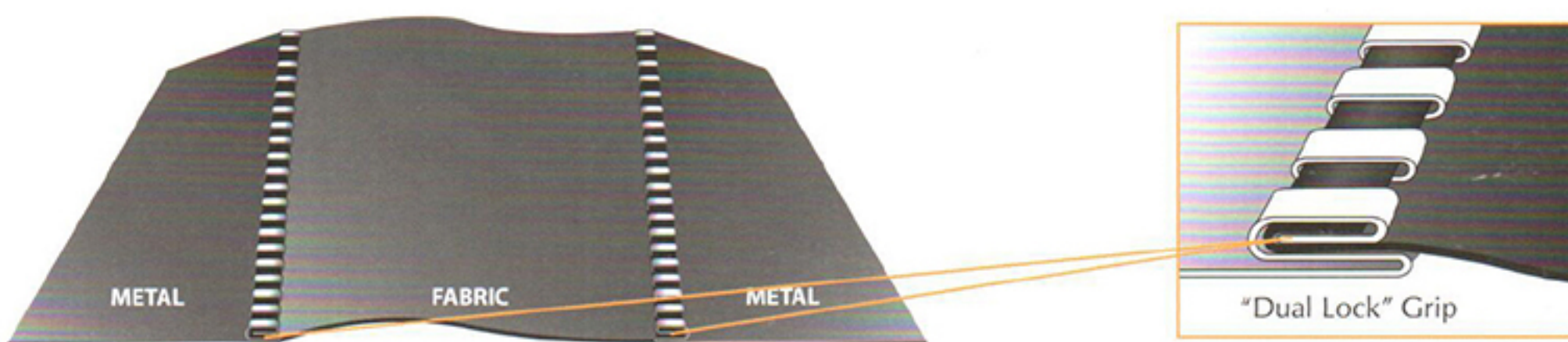


# FLEXIBLE DUCT CONNECTOR

All mechanical equipments like Air Handling Units, Fan Coil Units and Ventilation Fans generate noise and vibrations when used. To eliminate the noise and vibrations from transmitting through the air ducts, it is necessary to install an airtight flexible joint between the outlet of the equipment, and the inlet of the ducts.

The joint formed by attaching a layer of fabric to two strips of metal on either side is called a "Flexible Duct Connector".

The most critical part of this Flexible Duct Connector is the fabric which has to be selected to suit the typical requirements of each installation.



Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Vinyl						
V-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Polyester Yarn	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-G8-230-100	70 x 100 x 70	100	28	Coating	: Vinyl	
V-G8-145-150	45 x 75 x 45	150	28	Weight	: 576 gms /sq.mtr	
V-G8-230-150	70 x 100 x 70	150	28		: 17oz /sq. yard	
V-G4-225-100	75 x 75 x 75	100	24	Tear Strength	: 24gauge	
V-G4-250-100	75 x 100 x 75	100	24		: 745 gms /sq.mtr	
V-G4-300-100	75 x 150 x 75	100	24	Tensile Strength	: 22oz /sq. yard	
V-G4-350-100	100 x 150 x 100	100	24		: 45 x 45 kgs	
					: 100 x 100 lbs	Meets the requirements of NFPA 701 (formerly UL 214)
					: 108 x 100 kgs	Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
					: 240 x 220 lbs	
				Low Temp	: -40 deg C/-40 deg F	
				High Temp	: + 93 deg C/200 deg F	
Neoprene BS						
BSN-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	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	Coating	: Neoprene	
BSN-G8-145-150	45 x 75 x 45	150	28	Weight	: 1016 gms /sq.mtr	
BSN-G8-230-150	70 x 100 x 70	150	28	Tear Strength	: 30 oz/sq. yard	
					: 5.5 x 5.5 kgs	
BSN-G4-225-100	75 x 75 x 75	100	24	Tensile Strength	: 12 x 12 lbs	
BSN-G4-250-100	75 x 100 x 75	100	24		: 226 x 204 kgs	
BSN-G4-300-100	75 x 150 x 75	100	24	Low Temp	: 500 x 450 lbs	
BSN-G4-350-100	100 x 150 x 100	100	24		: -40 deg C (-40 deg F)	
				High Temp	: 93 deg C (200 deg F)	Meets the requirements of NFPA 701 (formerly UL 214)
						Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
						Rated Class 1 as per BS 476, part 7 Flame Tests



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Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Silicon						
S-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	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.  Meets the requirements of NFPA 701 (formerly UL 214)  Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
S-G8-230-100	70 x 100 x 70	100	28	Coating	: Silicon Rubber	
S-G4-225-100	75 x 75 x 75	100	24	Weight	: 627 gms /sq.mtr	
S-G4-250-100	75 x 100 x 75	100	24		: 18.5 oz/sq. yard	
S-G4-300-100	75 x 150 x 75	100	24	Tear Strength	: 27 x 22 kgs	
S-G4-350-100	100 x 150 x 100	100	24		60 x 50 lbs	
Rated for use at 400 deg C for 2 hours				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)	
Hypalon						
H-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	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.  Meets the requirements of NFPA 701 (formerly UL 214)  Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
H-G8-230-100	70 x 100 x 70	100	28	Coating	: Hypalon	
H-G4-225-100	75 x 75 x 75	100	24	Weight	: 780 gms /sq.mtr	
H-G4-250-100	75 x 100 x 75	100	24		: 23 oz/sq. yard	
H-G4-300-100	75 x 150 x 75	100	24	Tear Strength	: 22 x 18 kgs	
H-G4-350-100	100 x 150 x 100	100	24		48 x 39 lbs	
				Tensile Strength	: 102 x 136 kgs	
					225 x 200 lbs	
				Low Temp	: -40 deg C (-40 deg F)	
				High Temp	: 121 deg C (250 deg F)	
Polyurethane						
P-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	Polyurethane coated fabrics are fragile in construction but have a longer resistance period to high temperatures. Airtight and waterproof construction.  Meets the requirements of NFPA 701 (formerly UL 214)  Rated Class 1 as per BS 476, Part 7 Tests. Rated Class 0 as per BS 476, Part 6 Tests.  Achieves Class 1 when tested as per ASTM - E84 Surface Burning Characteristics
P-G8-230-100	70 x 100 x 70	100	28	Coating	: Polyurethane	
P-G4-225-100	75 x 75 x 75	100	24	Weight	: 460 gms /sq.mtr	
P-G4-250-100	75 x 100 x 75	100	24		: 13 oz/sq. yard	
P-G4-300-100	75 x 150 x 75	100	24	Tear Strength	: 16 x 14 kgs	
P-G4-350-100	100 x 150 x 100	100	24		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)	



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Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Canvas						
C-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Canvas	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 75	100	28	Weight	: 535 gms /sq.mtr : 16 oz/sq. yard	
C-G8-280-100	70 x 150 x 70	100	28	Tear Strength	: 4 x 4 kgs : 9 x 9 lbs	
C-G8-300-100	75 x 150 x 75	100	28			
C-G4-300-100	75 x 150 x 75	100	24	Tensile Strength	: 127 x 96 kgs : 280 x 210 lbs	Fire rated as per EN 532 and EN 533.
				Low Temp	: -40 deg C (-40 deg F)	
				High Temp	: 93 deg C (200 deg F)	

All AERODUCT Connectors utilise galvanised steel meeting ASTM A-525-G90 standards.

All AERODUCT Connectors are designed to meet NFPA 90A and 90B standards.

Sizes other than the above can be manufactured on request.

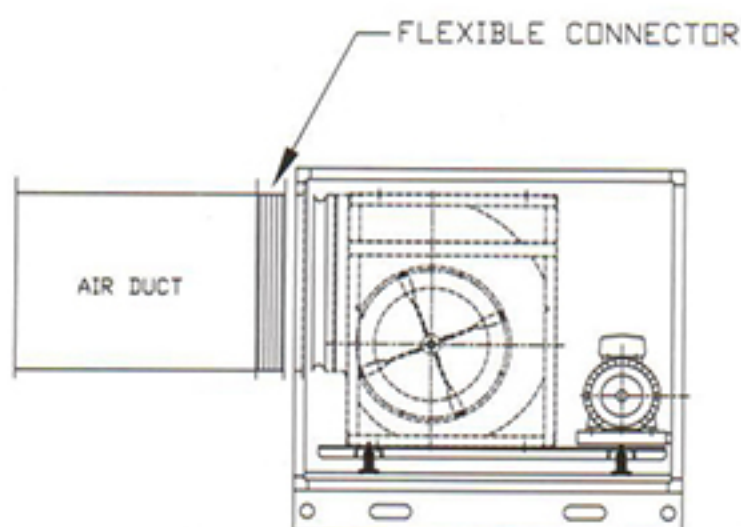
## Duct Fabric

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.

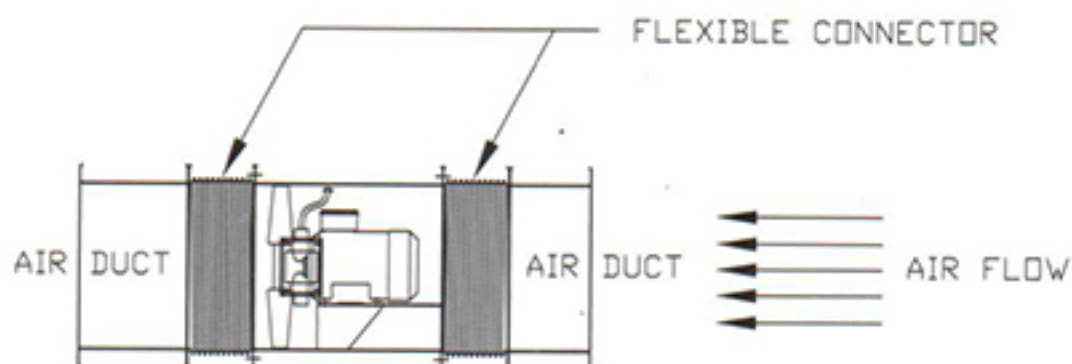
Fabric	Model No.	Width of Fabric	Length
Vinyl	V-75-100	3" (75 mm)	100 feet
Vinyl	V-100-100	4" (100 mm)	100 feet
Vinyl	V-150-100	6" (150 mm)	100 feet
Neoprene BS	BSN-75-100	3" (75 mm)	100 feet
Neoprene BS	BSN-100-100	4" (100 mm)	100 feet
Neoprene BS	BSN-150-100	6" (150 mm)	100 feet

Fabric	Model No.	Width of Fabric	Length
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