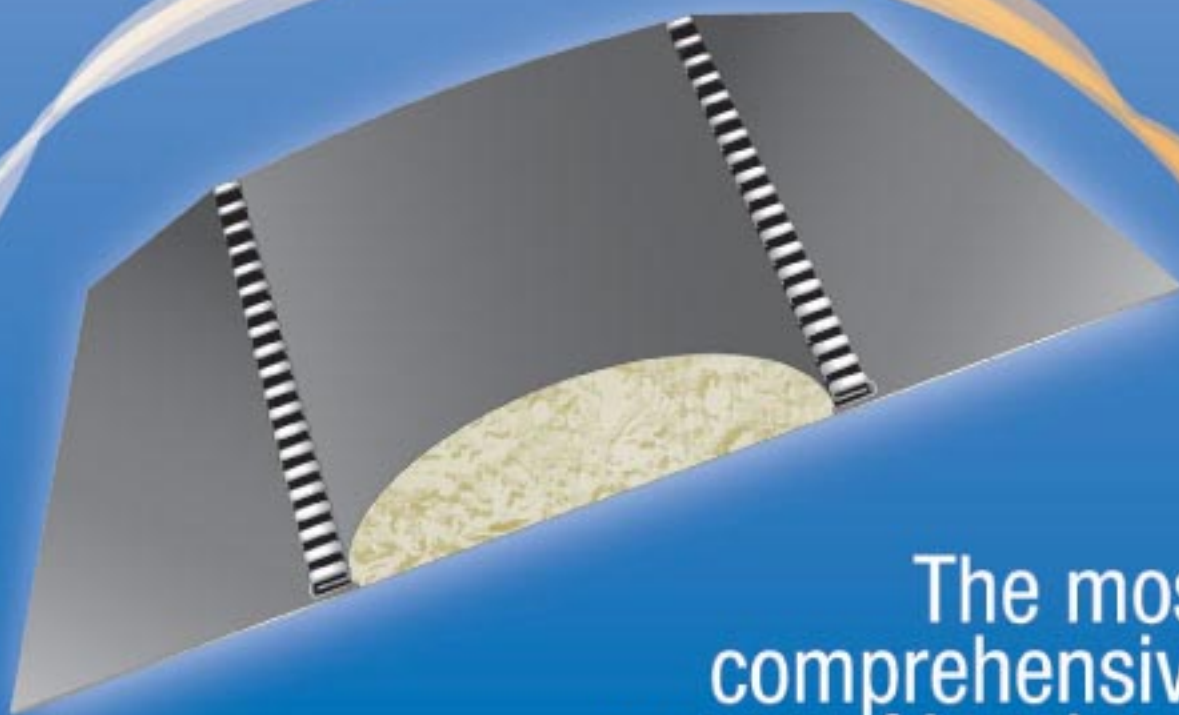




AERODUCT

INSULATED FLEXIBLE DUCT CONNECTORS



The most
comprehensive
range of Insulated
Flexible Duct Connectors





Insulated Flexible Duct Connectors

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, a Flexible Duct Connector is used between the equipment and the duct. For acoustically treated ductwork and supply ducts, it is important that the fabric of the connector is also insulated in addition to the insulation fixed on the ducting. This enables the Flexible Duct Connector to achieve maximum effectiveness.

Externally insulating the fabric, may damage the coating on it, and also make it stiff thereby affecting the noise and vibration absorption properties of the fabric. AERODUCT has a complete range of "Insulated Duct Connectors" which use a 25mm thick fibreglass insulation of R Value 4.2, sandwiched between two layers of fabric. The various options of fabrics offered in insulated models, ensure that the Flexible Duct Connectors can be used for all possible types of ductwork installations.

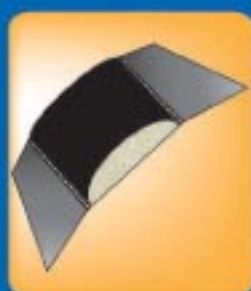
All models of Insulated Duct Connectors from AERODUCT utilize 24 Gauge Steel to ensure that both the layers of fabric are locked securely with the steel, and the fibreglass insulation does not get damaged during installation. 28 Gauge option also available.



Vinyl



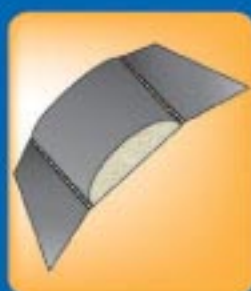
Neoprene BS



Neoprene



Silicon



Polyurethane

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

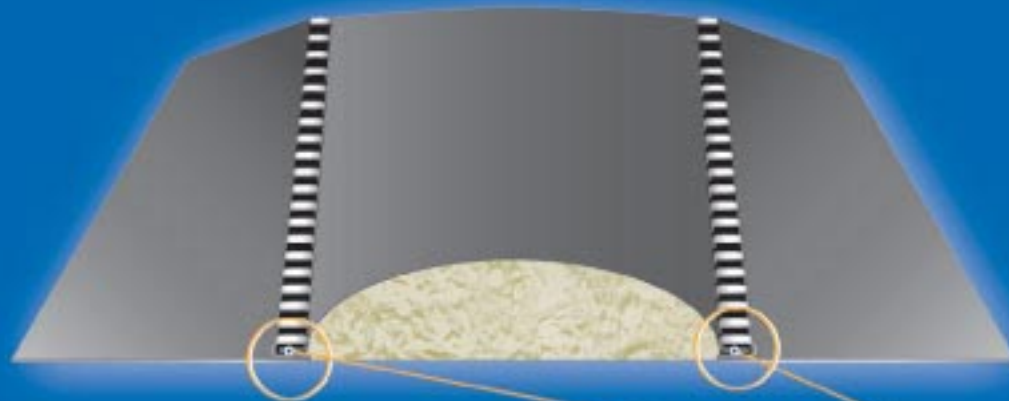
All AERODUCT connectors are designed to meet NFPA 90A & 90B standards.

Sizes other than above can be manufactured on request.

Stainless steel option is also available for the complete range.



Specification Data Sheet Insulated Flexible Duct Connectors



Fabric	Color	Weight	Thickness	Tensile Strength	Tear Strength	Low Temp	High Temp	Fabric Fire Ratings
		TEST METHOD						
		ASTM D751-89	ASTM D1777-89	ASTM D751-89	ASTM D751-89	ASTM D573-89	ASTM D573-89	
Vinyl	Light Black	576 gms/sq.mtr, 17oz/sq.yard	0.41 +/- 0.03mm	108 x 100 kgs 240 x 200 lbs	45 x 45 kgs 100 x 100 lbs	-40 deg C -40 deg F	93 deg C 200 deg F	ASTM E 84 - Class1. Meets Requirements of NFPA 701 (formerly UL 214).
Neroprene BS	Black	1016 gms/sq.mtr, 30 oz/sq.yard	0.43 +/- 0.03mm	226 x 204 kgs 500 x 450 lbs	5.5 x 5.5 kgs 12 x 12 lbs	-40 deg C -40 deg F	93 deg C 200 deg F	ASTM E 84 - Class1. Meets Requirements of NFPA 701 (formerly UL 214). Rated Class 1 as per BS 476 Part 7
Silicon	Grey	627 gms/sq.mtr, 18.5 oz/sq.yard	0.46 +/- 0.03mm	81 x 90 kgs 180 x 200 lbs	27 x 22 kgs 60 x 50 lbs	-40 deg C -40 deg F	300 deg C 573 deg F	ASTM E 84 - Class1. Meets Requirements of NFPA 701 (formerly UL 214).
Polyurethane	Grey	460 gms/ sq.mtr, 13 oz/ sq.yard	0.40 +/- 0.03mm	75 x 82 kgs 165 x 180 lbs	16 x 14 kgs 35 x 30 lbs	-40 deg C -40 deg F	200 deg C 392 deg F	Rated Class 1 as per BS 476, Part 7 Tests Rated Class 0 as per BS 476, Part 6 Tests ASTM E 84-Class 1. Meets requirements of NFPA 701 (formerly UL 214).

Part No.	Size Metal x Fabric Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
VINYL						
ISV-C4-250-100	75 x 100 x 75	100	24	Fabric	Vinyl Coated Polyester Yarn	Vinyl is the most commonly used fabric for all air duct installation due to its high tear strength and high abrasion resistance. Recommended for low to medium pressure ductwork systems.
ISV-C4-300-100	75 x 150 x 75	100	24	Insulation	Fibreglass 12 kg/m ³ .25mm thickness	
ISV-C8-230-100	70 X 100 X 70	100	28	R Value	4.2	Meets the requirements of NFPA 701 (formerly UL 214) Achieves Class 1 when tested as per ASTM - E84 - Surface Burning Characteristics
ISV-C8-280-100	70 X 150 X 70	100	28	Weight	576 gms /sq.mtr, 17oz /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	
NEOPRENE BS						
ISBSN-C4-250-100	75 X 100 X 75	100	24	Fabric	Neoprene Coated Woven Fibreglass	Neoprene is recommended for use in application where high mechanical strength is required. Neoprene is extremely resistant to most alkalis, gasoline and toxic fumes.
ISBSN-C4-300-100	75 X 150 X 75	100	24	Insulation	Fibreglass 12 kg/m ³ .25mm thickness	
ISBSN-C8-230-100	70 X 100 X 70	100	28	R Value	4.2	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.
ISBSN-C8-280-100	70 X 150 X 70	100	28	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)	
SILICON						
ISS-C4-250-100	75 X 100 X 75	100	24	Fabric	Silicon Rubber coated Woven Fibreglass	Silicon fabric has a special Silicon 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 installation.
ISS-C4-300-100	75 X 150 X 75	100	24	Insulation	Fibreglass 12 kg/m ³ . 25mm thickness	
ISS-C8-230-100	70 X 100 X 70	100	28	R Value	4.2	Meets the requirements of NFPA 701 (formerly UL 214) Achieves Class 1 when tested as per ASTM - E84 - Surface Burning Characteristics
ISS-C8-280-100	70 X 150 X 70	100	28	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)	
POLYURETHANE						
ISP-C4-250-100	75 X 100 X 75	100	24	Fabric	Polyurethane Coated Woven Fibreglass	Polyurethane Coated Fabrics are fragile in construction but have a longer resistance period to high temperatures.
ISP-C4-300-100	75 X 150 X 75	100	24	Insulation	Fibreglass 12 kg/m ³ . 25mm thickness	
ISP-C8-230-100	70 X 100 X 70	100	28	R Value	4.2	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
ISP-C8-280-100	70 X 150 X 70	100	28	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)	

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