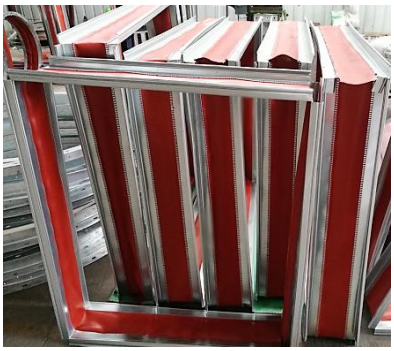
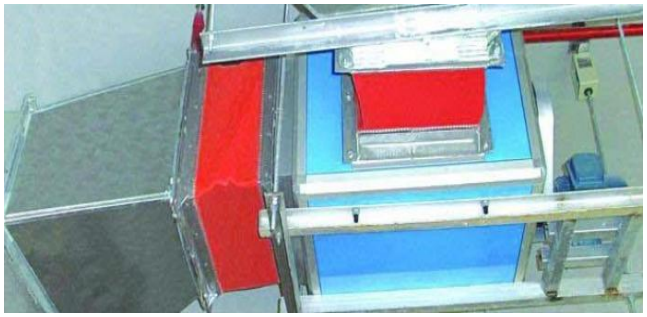
Flexible duct connector



All air duct installations for heating, cooling or ventilation are connected to mechanical equipment containing a fan or blower. Vibrations, noises and rattles resulting from the operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.

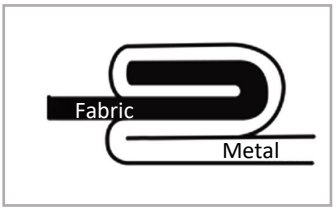


In order to isolate vibrations and noises caused by air handling units, fans or other equipment connected to air ducts, it is highly recommended to install a flexible duct connector joint between the outlet of these devices and the air duct.

Description:

Flexible duct connector is made of fireproof fabric and galvanized iron plate. The two tight strong airtight lock seams .

Gripping lock



Feature:

1. easy and quick to be installed;
2. strong air tight lock seams s(metal – fabric – metal)
3. available in various widths of fabric and metal.
4. high temperature resistant.
5. fire resistant.
6. Fire rated and high temperature resistant fabric is available for special applications such as kitchen extract ductwork, car park extract ductwork , shopping mall ductwork , engeneering ductwork and industrial applications.
7. Larger metal widths available to suit Transverse Duct Flanges (TDF), Transvers Duct Connector (TDC).

Fabric Selection Guide:

Vinyl(PVC）:
Reinforced woven polyester base fabric coated with UV stabilised and flame retardant PVC coating- colour blue or black. This is an excellent all purpose fabric with low cost, and amongst it's many features is excellent flexibility, excellent resistance to acids,oils, greases, mildew, alkalis and most chemicals,extremely high tear strength and abrasion resistance,excellent water resistance, airtight, excellent ageing characteristics. Best suited for use in internal applications and protected external applications, orwith suitable covers to shield fabric in very sever external environments. Recommended temperature range -20° C to +80° C.

Neoprene:
Woven fiberglass base cloth coated with neoprene fabric on both sides. Neoprene has high cohesive strength, heat resistance, oil resistance and aging resistance, and has good adhesion to metal and non-metal. Besides, neoprene coated fiberglass fabric has good durability, excellent flame retardancy, light resistance, ozone resistance and weather resistance. It is very suitable for industrial or eectronic applications. Especially the suited for use in environment with oil. Recommended temperature range -50° C to +135° C.

Silicone:
Woven fibreglass base cloth coated with proprietary silicone rubber formulation. This fabric is almost completely inert, and offers extremely low flammability and smoke emission. This fabric has been tested in accordance with UL94:2017. With excellent performance in both high (up to 300° C) and low (-70° C) temperatures, the fabric offers excellent resistance to almost all chemicals, ozone, weathering, mildew and is highly recommended for all applications – a breakthrough in flexible duct connector technology.

Silicone - Heavy Fabric:
This fabric possesses the same qualities boasted by our standard silicone fabric,. It is fiberglass calendering with silicone rubber . So it has even greater tear strength, durability and long term resistance to virtually any conditions. This fabric withstand the harshest imaginable environments, with a coating thickness superior to anything else on the market today. If the application calls for a product that can withstand high temperature and extreme environmental conditions – this is the ultimate choice.
For heavy silicone fabric, Yeedah produce many thickness from 1.0mm to 6.0mm for different application.

Fabric specification:

Vinyl (PVC) fabric					
ITEM NO.	**FABRIC THICK (mm)**	**COLOR**	**DESCRIPTION**	**SPECIFICATION**	**FEATURES**
YDPVC-040	0.4	Blue / Black	Basic fabric: Polyester Coating: Vinyl (PVC) Low Temp:-20℃ High Temp: 80℃	Weight::480g/sqm Tensile strength : 2673X2430 N/5cm Tear strenght: 390X350 N	• Good, low cost • Excellent tensile, tearing and adhesion strength • Humidityproof, waterproof, stain resistance • Oxidation resistance; Anti-mildew; Moisture-proof. • Can be applicate to adumbral materials for building facility and house indoor use.
YDPVC-055	0.55	Black		Weight::640g/sqm Tensile strength : 2931X2689 N/5cm Tear strenght: 310X370 N	
Neoprene fabric					
ITEM NO.	**FABRIC THICK (mm)**	**COLOR**	**DESCRIPTION**	**SPECIFICATION**	**FEATURES**
YDNF-050	0.5	Black	Basic fabric: Fiberglass Coating: Neoprene rubber Low Temp:-50℃ High Temp: 135℃	Weight:630g/sqm	• Good durability, excellent flame retardancy, light resistance, ozone resistance and weather resistance. • Good wear-resistance to medium, good oil, water, alkali, acid and solvent resistance.

Silicone fabric					
ITEM NO.	**FABRIC THICK (mm)**	**COLOR**	**DESCRIPTION**	**SPECIFICATION**	**FEATURES**
YDSF-1-045	0.45	Grey/Red (Customized color is available)	Basic fabric: Fiberglass Coating: Silicone rubber Low Temp:-70℃ High Temp: 270℃	Weight::530g/sqm Tensile strength : 1220X1316 N/2.5cm Tear strenght: 130X162 N	• Excellent ozone resistance • Excellent heat and cold resistance • Best Chemical acid and alkali resistant. • Can be used to school, Building, shopping mall, hospital,etc • Recommended for indoor applications
Silicone heavy fabric					
ITEM NO.	**FABRIC THICK (mm)**	**COLOR**	**DESCRIPTION**	**SPECIFICATION**	**FEATURES**
YDSF-1-120	1.2	Red (Customized color is available)	Basic fabric: Fiberglass Coating: Silicone rubber Low Temp:-70℃ High Temp: 270℃	Weight:1960g/sqm Tensile strength : 2663X2850 N/2.5cm Tear strenght: 400X442 N	• Excellent ozone resistance • Excellent heat and cold resistance • Widely used in Large Power Generation Equipment, Building, Transportation and other fields. • Recommended for shopping mall , school, hospital , engeneering and industrial applications. Especially apply for strong sunshine and snowy area outdoor use.

- All Yeedah neoprene fabrics are designed to comply for UL94:2013.
- All Yeedah silicone fabrics are designed to comply for UL94:2017

Flexible duct connector specification:

Normal size, galvinized iron plate thickness 0.4mm		
FABRIC	**SIZE (Metal - fabric - Metal)**	**REMARK**
Vinyl (PVC)	All fabrics are available in: 45 X75X45mm 45X100X45mm 45X150X45mm 75X100X75mm 75X150X75mm 75X200X75mm 93X100X93mm	Length: 25m, 30m/roll. Metal width available from 35mm~93mm Total width Could be made from 135mm~400mm to meet customer's requirement.
Neoprene		
Silicone		
Silicone heavy		

Galvinized iron plate thickness 0.5mm		
FABRIC	**SIZE (Metal - fabric - Metal)**	**REMARK**
Vinyl (PVC)	All fabrics are available in: 45 X75X45mm 45X100X45mm 45X150X45mm 75X100X75mm 75X150X75mm 75X200X75mm 93X100X93mm	Length: 25m, 30m/roll. Metal width available from 35mm~93mm Total width Could be made from 135mm~400mm to meet customer's requirement.
Neoprene		
Silicone		
Silicone heavy		

NOTE: All specifcation values shown in this catalog are typical and will vary within accepted commercial tolerances.

INDUSTRIAL/COMMERCIAL APPLICATION:

To meet the requirements of heavy industrial and commercial duct systems.
We recommend to use 0.6mm metal for flexible connection.

Dimension	Fabric
75X100X75mm 75X150X75mm 75X200X75mm 93X100X93mm	Indoor: PVC (0.9mm) Outdoor: Silicone heavy fabric (1.2mm /1.3mm)

To meet the requirements of large equipment in special industrial and commercial duct systems. Yeedah also supply other special connectors.
Connectors with fabric flange or metal flange (iron or stainless steel).

Package:

All Flexible duct connectors are packed in blank brown carton. Color carton can be supplied for special requirement.

The standard roll length is 25 or 30mtrs. special roll lengths up to 45mtrs or 50 mtrs can be manufactured as required (subject to minimum order quantities.)

Installation:

1) Cut a length of Dura~Flex Duct Connector approximately 50mm longer than the required perimeter, and scribe bend points accordingly.

2) On one end cut approximately 50mm of metal away leaving the fabric intact. The ends are now ready for bending and joining.

3) Carefully fabricate the connector to the desired shape and join the metal rivets, screws or spot welds. Join the fabric with the recommended adhesives and staples. Always take care when fabricating a flexible connection not to pinch or damage the fabric in folders or rollers.

When installing large size fl exible connections, it may assist if the assembly is made more rigid. This is relatively easily achieved without added expense simply by bending the double lock seam up to 90 degrees on a folder prior to fabricating the connection. This standing seam should be notched at the bend points when forming to shape.

When installed in a ductwork run, the metal edges of the flexible connection should be roughly 40-50mm apart for optimum effectiveness in handling vibration and movement of the duct run.