

# WARD CONNECTOR

## Flexible Connector FABRIC SELECTION CHART

FC

	<b>NEOFLEX</b> (Neoprene/Fiberglass) Industry Standard - High Velocity	<b>VINYLON</b> (PVC/Nylon/ Polyester) General Purpose - Low/Med Velocity	<b>FLEXLON</b> (Hypalon/Fiberglass) Ideal Outdoor - High Velocity	<b>HYPALON</b> (Hypalon/Polyester) All Weather - High Velocity	<b>THERMOLON</b> (Silicone/Fiberglass) Superior Weathering - High Temperatures
<b>Description</b>	NEOFLEX is a heavy glass fabric, coated on both sides with neoprene. The glass fabric is non-combustible, and the coating is fire retardant, and has no glow time or char length. It is waterproof, airtight, and gasoline and grease resistant.	VINYLON is a nylon polyester fabric with a heavy vinyl coating on both sides. It is an extremely tough connector material. Dark gray in color, the coating is flame retardant, and is airtight, weather resistant and chemical resistant.	FLEXLON is a heavy glass fabric, coated on both sides with white hypalon. Fabric is non-combustible and the coating is flameproof. It has excellent weathering quality and is waterproof. Resistant to ozone, acids, alkalis, gasoline and grease.	HYPALON is a polyester fabric with a heavy hypalon coating on both sides. Airtight and watertight fabric has outstanding resistance to weathering, ultraviolet radiation, ozone and is not effected by mildew.	THERMOLON is a very heavy glass fabric, coated on both sides with silicone. Silver in color, flameproof, and has excellent resistance to many chemicals and weathering. Designed for high temperature applications.
<b>Approvals</b>	Complies with Federal Specifications MIL-Y-1140 C. Conforms with standards for flexible duct connectors outlined in NFPA 90A. Fabric is U.L. listed per U.L. 181 Class 1, and is LA Approved.	Complies with Federal Specifications MIL-C-20696B. Conforms with standards for flexible duct connectors outlined in NFPA 90A and 90B. Fabric is U.L. listed per U.L. 214, and with the California State Fire Marshall.	Complies with Federal Specifications MIL-C-20696B and MIL-Y-1140 C. Conforms with standards for flexible duct connectors outlined in NFPA 90A. Fabric is U.L. listed per U.L. 214.	Conforms with standards for flexible duct connectors outlined in NFPA 90A. Fabric is U.L. listed and has received Class A Fire Resistance Approval.	Complies with Federal Specifications MIL-Y-1140 H and FTMS 191 A test method 5903 and MIL-C-20696 C. Fabric is U.L. listed per U.L. 214 and 181 Class 0, and is LA Approved.
<b>Weight</b>	ASTM D 751-73 29 oz/sq yd +/- 1.5	Fed Std. 191B 20 oz/sq yd +/- 1.5	ASTM D 751-73 23 oz/sq yd +/- 1.5	Fed Std. 191B 35 oz/sq yd +/- 1.0	ASTM D 751-73 34 oz/sq yd +/- 1.5
<b>Tensile Strength</b>	ASTM D 751-73 475 lbs warp x 375 lbs fill	ASTM D 751-73 225 lbs warp x 250 lbs fill	ASTM D 751-73 475 lbs warp x 375 lbs fill	ASTM D 751-73 200 lbs warp x 200 lbs fill	ASTM D 751-73 610 lbs warp x 512 lbs fill
<b>Fire Resistance</b>	Passed U.L. 214 Flame Resistance Approval. Has 2 sec. glow time and 3.5" char length.	Passed U.L. 214 Class A Fire Resistance Approval.	Federal Standard 191A Does not burn. Has no glow time and only 1/4" char length.	Passed U.L. 214 Class A Fire Resistance Approval.	Federal Standard 191A Flame Resistance. Self-extinguishing.
<b>Temperature Range</b>	ASTM D 2136 and D 573 -40 F to 200 F continuous	ASTM D 2136 and D 573 -40 F to 180 F continuous 200 F intermittent	ASTM D 2136 and D 573 -40 F to 240 F continuous 250 F intermittent	ASTM D 2136 and D 573 -45 F to 200 F continuous 240 F intermittent	ASTM D 2136 and D 573 -67 F to 500 F continuous 600 F intermittent
<b>Tear Strength</b>	ASTM D 751-73 25 lbs warp x 20 lbs fill	ASTM D 751-73 60 lbs warp x 60 lbs fill	ASTM D 751-73 20 lbs warp x 15 lbs fill	ASTM D 751-73 80 lbs warp x 80 lbs fill	ASTM D 751-73 60 lbs warp x 25 lbs fill
<b>Waterproof Qualities</b>	ASTM D 751-73 Hydrostatic Resistance 750 psi	ASTM D 751-73 Hydrostatic Resistance 320 psi	ASTM D 751-73 Hydrostatic Resistance 750 psi	ASTM D 751-73 Hydrostatic Resistance 375 psi	ASTM D 751-73 Hydrostatic Resistance 600 psi
<b>Thickness</b>	ASTM 751-73 .025"	ASTM 751-73 .023"	ASTM 751-73 .020"	ASTM 751-73 .036"	ASTM 751-73 .030"
<b>Pressure Rating</b>	All grades rated to 10" SP	All grades rated to 10" SP	All grades rated to 10" SP	All grades rated to 10" SP	All grades rated to 10" SP
<b>Chemical Resistance</b>	ASTM D 1149 Resistant to acids, alkalis, gasoline and grease.	ASTM D 1149 Resistant to oil, grease, weathering and many other chemicals.	ASTM D 1149 Resistant to ozone, acids, alkalis, gasoline and grease.	ASTM D 1149 Outstanding resistance to weathering, ultraviolet radiation, ozone and is not effected by mildew.	ASTM D 1149 Excellent resistance to acids and alkalis. Adversely effected by gasoline, toluene, acetone and grease.
<b>Applications</b>	NEOFLEX can be used in practically every type of HVAC system. Because of its chemical resistance, it can be used in kitchen and fume hoods. It is absolutely waterproof and airtight, and is ideal for high pressure systems and outdoor applications.	VINYLON can be used in practically every type of installation within its temperature range. It is inexpensive, but easy to work with and has extremely high abrasion and cut resistance.	FLEXLON can be used in practically every type of installation. White coating reflects heat and is clean appearing. It is ideal for outdoor applications. And because of its chemical resistance, it can be used in kitchen and fume hoods. It is absolutely airtight and is ideal for high pressure systems.	HYPALON can be used in practically every type of installation. It is especially recommended for heavy weather applications. It is not effected by ultraviolet radiation, ozone or mildew. Insulated hypalon has a R rating of 2 and will reduce heat loss/gain.	THERMOLON can be used in practically every type of installation, especially in high temperature applications, and where an airtight connector is required.

JOB NAME: _____	SUBMITTED BY: _____
LOCATION: _____	
ARCHITECT: _____	
ENGINEER: _____	
CONTRACTOR: _____	



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