



Pre-Conditioned
Air (PCA)

Ducting Products



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UltraLyte®

Layflat Insulated PCA Ducting



DESCRIPTION:

ABC Industries, Inc.'s revolutionary UltraLyte® PCA ducting is the ultimate combination of lightweight convenience and heavy-duty performance. Specially designed for the rigors of the airline industry, reinforced seams are lockstitched with high strength Nylon thread to prevent unraveling. The durable fabrics prevent wicking and do not degrade when exposed to Skydrol. UltraLyte® is constructed with an integral internal flap that seals at ducting connection points and reduces air loss. These unique features result in superior service life and cost savings over the product lifecycle.

OUTER SHELL

The high strength yellow ballistic Nylon outer shell is urethane coated for 2.5 times better abrasion resistance than any lightweight PCA ducting available today. The fabric is resistant to the usual degrading effects of Glycol Alcohol (Skydrol) exposure. Additionally, the outer shell is UV stabilized for protection against harmful sun degradation and treated for mold and mildew resistance.

INSULATION LAYER

The middle layer is a patented polypropylene fabric that is metalized on one side for superb radiant heat insulation. Its unique construction allows the material to flex without cracking or flaking. The material is also designed to inhibit growth of fungi and bacteria.

INNER LINER

The light-colored, high strength inner liner is constructed from a urethane-coated Nylon material treated for mold and mildew resistance. The tightly woven, rip-resistant fabric is specially designed to withstand delamination and endure the heavy wear associated with the airline industry.

SPECIFICATIONS:

Temperature	-20° to 180° F (-29° to 82° C)
Length	10', 20', 25', 35', 45', 50' (3, 6, 7.5, 10.5, 15 m). Custom lengths available upon request.
Inside Diameter	8", 12", 14" (200, 300, 350 mm). Larger diameters available upon request.
Color	Yellow
Optional End Finishes	6" Velcro® Cuff, Soft Cuff, Zipper/Velcro® Cuff

PCA Ducting

FloFlex™

Layflat Insulated PCA Ducting with Heavy-Duty Wearstrip



DESCRIPTION:

FloFlex™ heat-sealed (welded) layflat PCA ducting is designed for the demanding positive pressure applications of the airline industry. The fabric's unique construction provides flexibility and high resistance to external abrasion. FloFlex's™ spiral construction features heavy-duty, military specification wearstrip that provides protection for the entire duct. As a result, FloFlex™ experiences reduced fatigue and a longer service life. An extended inner liner and elastic seals at connection points minimize air loss. FloFlex™ has excellent UV stabilization for rigorous outdoor use, mold and mildew inhibitors, and meets NFPA-701 (Method 2) standards.

OUTER SHELL

The outer shell is comprised of VentaTex® 20XHDMW 3-ply, 20 oz./yd.² (678 g/m²) high strength PVC fabric and black wearstrip that meets military specification. To improve abrasion resistance, 9 mm of high density molecular weight PVC is added to the external wear surface. Manufactured by ABC Industries, Inc., the custom laminate is produced by compressing high strength, multi-denier, uni-directional RipStop polyester yarns between PVC films. The finished material thickness is .029 inches (.737 mm).

INSULATION LAYER

The middle layer consists of stitch-bonded polyester insulation similar to the high performance material found in cold weather clothing and camping products.

INNER LINER

The inner sleeve is made of VentaTex® 11-1812 high strength material, an 11 oz./yd.² (373 g/m²), 3-ply engineered PVC fabric manufactured by ABC Industries, Inc. VentaTex® 11-1812 is specially designed to eliminate delamination commonly found in competitive products.

SPECIFICATIONS:

Temperature	-20° to 180° F (-29° to 82° C)
Length	10', 20', 25', 50' (3, 6, 7.5, 15.5 m). Custom lengths available upon request.
Inside Diameter	8", 12", 14" (200, 300, 350 mm). Other diameters available upon request.
Color	Yellow with Black Wearstrip
Optional End Finishes	Velcro® Cuff, Soft Cuff, Zipper Cuff
Wearstrip	Heavy-Duty Black (Military Specification)

Wire-Reinforced PCA Ducting (Transition Hose)

Layflat Insulated PCA Ducting with Heavy-Duty Wearstrip



DESCRIPTION:

- High strength outer layer
- Welded construction
- Excellent UV stabilization and mold and mildew inhibitors for rigorous outdoor use
- Flame resistant in accordance with UL94VTM-O

OUTER SHELL

The outer shell is comprised of VentaTex® 20XHDMW 3-ply, 20 oz./yd.² (678 g/m²) high strength PVC fabric and black wearstrip that meets military specification. To improve abrasion resistance, 9 mm of high density molecular weight PVC is added to the external wear surface. Manufactured by ABC Industries, Inc., the custom laminate is produced by compressing high strength, multi-denier, uni-directional RipStop polyester yarns between PVC films. The finished material thickness is .029 inches (.737 mm).

INSULATION LAYER

The middle layer consists of stitch-bonded polyester insulation similar to the high performance material found in cold weather clothing and camping products.

INNER LINER

The inner sleeve is made of VentaTex® 11-1812 high strength material, an 11 oz./yd.² (373 g/m²), 3-ply engineered PVC fabric manufactured by ABC Industries, Inc. VentaTex® 11-1812 is specially designed to eliminate delamination commonly found in competitive products.

SPECIFICATIONS:

Temperature	-20° to 180° F (-29° to 82° C)
Length	Per Customer Specification
Standard Pitch	4", 6" (10, 15 cm)
Inside Diameter	8", 12", 14" (200, 300, 350 mm). Other diameters available upon request.
Wire	Hard-Drawn Steel
Color	Yellow
Wearstrip	Heavy-Duty Black (Military Specification)
End Finish	Soft Cuff, 6" Velcro® Cuff, Zipper/Velcro® Cuff

PCA Ducting

Bridgecool

Durable, Insulated, Wire-Reinforced PCA Ducting



DESCRIPTION:

Cool your bridge area more efficiently by moving pre-conditioned air through Bridgecool wire-reinforced ducting from ABC Industries. The unique 4-ply welded construction features an outer layer of white Black-Out ducting that shields cooled air from the sun's heat. The double-insulated middle layer provides additional protection from radiant heat loading and ambient air temperature. Two helixes of wire reinforcement support the ducting and allow your A/C unit to operate more efficiently and cost-effectively.

OUTER SHELL

The 16 oz./yd.² (542 g/m²) opaque, high-strength, high-polish white PVC/polyester outer shell is designed to shield pre-conditioned air from the heating effects of the sun's rays. The outer shell features mold and mildew inhibitors and is UV stabilized for protection against harmful sun degradation.

OUTER INSULATION LAYER

The outer insulation layer is a patented polypropylene fabric that is metalized on one side for superb radiant heat insulation. Its unique construction allows the material to flex without cracking or flaking. The material is also designed to inhibit growth of fungi and bacteria.

INNER INSULATION LAYER

The inner insulation layer consists of stitch-bonded polyester insulation similar to the high performance material found in cold weather clothing and camping products.

INNER LINER

The inner sleeve is made of VentaTex® 11-1812 high strength material, an 11 oz./yd.² (373 g/m²), 3-ply engineered PVC fabric manufactured by ABC Industries, Inc. VentaTex® 11-1812 is specially designed to eliminate delamination commonly found in competitive products.

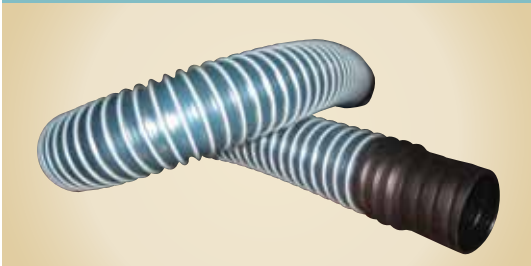
SPECIFICATIONS:

Temperature	-20° to 180° F (-29° to 82° C)
Length	Per Customer Specification
Inside Diameter	8", 12", 14" (200, 300, 350 mm)
Wire	Hard-Drawn Steel
Color	High-Polish White
Standard End Finish	Soft Cuff

Lavatory Waste Hose

Lavatory Waste Hose (Gravity Flow)

Urethane with Nylon Helix (Crushable)



FEATURES

- Heavy-duty, cut-resistant cuffs specially designed for the airline industry
- UV stabilization and mold and mildew inhibitors for outdoor use

SPECIFICATIONS:

Temperature	-65° to 180° F (-59° to 82° C)
Length	7', 8', 10', 12', 15' (2, 2.5, 3, 3.5, 4.5 m). Custom lengths available upon request.
Standard Pitch	1" (2.5 cm)
Inside Diameter	4½" (100 mm)
Wire	Nylon Helix
Color	Translucent Blue, Black, Clear

Lavatory Waste Hose (Vacuum Assist)

Urethane with Steel Wire Helix (Wire-Reinforced)



FEATURES

- Heavy-duty, cut-resistant cuffs specially designed for the airline industry
- Excellent UV stabilization and mold and mildew inhibitors for outdoor use

SPECIFICATIONS:

Temperature	-65° to 180° F (-59° to 82° C)
Length	7', 8', 10', 12', 15' (2, 2.5, 3, 3.5, 4.5 m). Custom lengths available upon request.
Standard Pitch	¾" (2 cm)
Inside Diameter	4½" (100 mm)
Wire	Hard-Drawn Steel
Color	Translucent Blue, Black, Clear

PCA Transitions

D-Style Layflat Reducer



SPECIFICATIONS:

Construction	Sewn (20XHDMW/SBP/Nylon)
Temperature	-20° to 180° F (-29° to 82° C)
Inside Diameter	12", 14" (300, 350 mm) Both Reduced to 8" (200 mm)
Wire	Nylon Helix
Color	Yellow with Black Wearstrip
Option End Finishes	6" Velcro® Cuff, Zipper/Velcro® Cuff, Soft Cuff

FlexLink



SPECIFICATIONS:

Construction	Heat-Sealed Trunk (20XHDMW) with Attached D-Style Reducer
Temperature	-20° to 180° F (-29° to 82° C)
Length	6' (2 m) Overall Length (4' (1 m) Trunk). Custom lengths available upon request.
Inside Diameter	12", 14" (300, 350 mm) Both Reduced to 8" (200 mm)
Wire	Nylon Helix - Trunk
Color	Yellow with Black Wearstrip
Option End Finishes	6" Velcro® Cuff, Zipper/Velcro® Cuff, Soft Cuff

Insulated Layflat Reducer



SPECIFICATIONS:

Construction	Sewn (20XHDMW/SBP/Nylon)
Temperature	-20° to 180° F (-29° to 82° C)
Inside Diameter	12", 14" (300, 350 mm) Both Reduced to 8" (200 mm)
Color	Yellow
Option End Finishes	6" Velcro® Cuff, Zipper/Velcro® Cuff, Soft Cuff

Insulated Layflat 45° and 90° Elbow



SPECIFICATIONS:

Construction	Sewn (20XHDMW/SBP/Nylon)
Temperature	-20° to 180° F (-29° to 82° C)
Inside Diameter	8", 12", 14" (200, 300, 350 mm)
Color	Yellow
Option End Finishes	6" Velcro® Cuff, Zipper/Velcro® Cuff, Soft Cuff

Insulated Layflat 45° and 90° Elbow Reducer



SPECIFICATIONS:

Construction	Sewn (20XHDMW/SBP/Nylon)
Temperature	-20° to 180° F (-29° to 82° C)
Inside Diameter	12", 14" (300, 350 mm) Both Reduced to 8" (200 mm)
Color	Yellow
Option End Finishes	6" Velcro® Cuff, Zipper/Velcro® Cuff, Soft Cuff

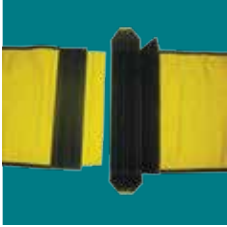
Bellycool



SPECIFICATIONS:

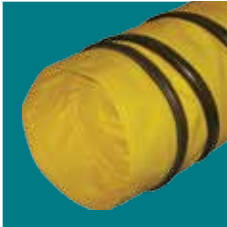
Construction	Sewn (20XHDMW/SBP/Nylon)
Temperature	-20° to 180° F (-29° to 82° C)
Inside Diameters	Inline: 12" & 14" (300, 350 mm) Reducer: 12" & 14" Both Reduced to 8" (200 mm)
Port Diameter	4 1/8" (100 mm)
Color	Yellow
Option End Finishes	6" Velcro® Cuff, Zipper/Velcro® Cuff, Soft Cuff

PCA End Finishes



VELCRO® CUFF

The Velcro® cuff features exterior flaps that wrap around the ducting connection point and secure with hook and loop to the female end. The improved design offers GSE professionals easier access and fastening ability at connection points.



ATTACHED SOFT CUFF

The soft cuff is comprised of a double layer of appropriate fabric that is attached to a standard ducting end. This additional fabric provides extra coupling flexibility for a variety of attachments.



ZIPPER/VELCRO® CUFF

Zipper/Velcro® cuffs are manufactured by sewing one side of a zipper assembly to the first duct at a connection point. The cuff on the second duct contains the coordinating zipper teeth to form a secure union. Velcro® adds a second layer of protection against unwanted dust and debris at ducting connection points. The resulting connection features an overlapping female entry and male exit.



ZIPPER CUFF

The zipper cuff serves as a connection point for compression-sensitive applications. The cuff is manufactured by sewing one side of a zipper assembly to the first duct at a connection point. The cuff on the second duct contains the coordinating zipper teeth to form a secure union.



Baggage Cart Curtains



ABC Industries, Inc. has expanded its GSE product offering to include a line of baggage cart curtains for baggage, freight, mail, and catering. The curtains are custom designed to each cart OEM's specification and feature a series of heavy-duty carabiner hooks to quickly attach and detach the curtain from the frame. This unique design eliminates time consuming and costly cart maintenance.

The curtains are constructed of high strength 20 oz./yd.² (678 g/m²) yellow (custom colors may be available) ABC VentaTex[®] PVC fabric. The material is constructed by compressing high strength, multi-denier, unidirectional RipStop polyester yarns between PVC films. High density PVC is applied to the wear surface for improved abrasion resistance. These premium quality curtains have been field tested and approved for use by a major U.S. airline.





ABC's headquarters in Winona Lake, Indiana

About ABC

The story of ABC Industries is one of product evolution and prosperity since its humble beginning in 1926. What began as American Brattice Cloth (ABC) and a single product, jute brattice cloth, has transformed into a diverse line of ventilation products for a wide range of industrial applications. Markets served by ABC's ducting include aviation, HVAC, material handling, paint and sandblasting, disaster response, and the military, among others. Market trends and new technologies have guided ABC along the path of innovation to provide its customers with premium products and outstanding service. As industrial ventilation products continue to evolve, ABC proactively collaborates with industry professionals to engineer unique, high quality ventilation products to meet the market's needs for tomorrow and beyond.



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