

INSPECT YOUR CABLES AND CONNECTORS - STEP BY STEP

Removing Connector Heads from Service

A replaceable contact section (Nose) for a Connector Head can provide a valuable option when maintaining and operating the ground power service to aircraft. Noses are to be replaced at regular intervals BEFORE extreme physical wear or contaminated contacts are evident - as shown here:



#1 LOOK FOR SIGNS OF WATER ENTRY IN THE CABLE HEAD

The cable and its Connector Head (Nose removed) must be examined also, as this is critical to intercepting failures before they happen. How does one decide when a Head should be removed from service and what criteria should be used?

As shown below; fluid ingress and external damage lead to failure.



#2 LOOK FOR DATE OF MANUFACTURE MOLDED INTO EVERY HEAD



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Check your cables and connectors - **step by step**

#3 LOOK FOR EXTERNAL STRESS THAT WILL COMPROMISE THE INTERNAL INSULATION



#4 LOOK FOR SIGNS OF COMPROMISED CABLE OR CONNECTOR. INSPECT FULL LENGTH OF CABLE



#5 LOOK FOR CABLE DAMAGE AND DEFORMATION DUE TO EXTERNAL STRESS



#6 TESTS THAT CAN BE PERFORMED WHICH INDICATE A BAD HEAD:

1. Mega-ohm reading between any A,B,C,N combination to read $500M\Omega @ 500V$ Minimum.
2. Temperature probe or thermal imaging, while under load, to show no hot spots.
3. Voltage drop, under load, to be consistent phase to phase and phase to Neutral.

There are two separate, but critical, electrical parameters. Test #1 indicates insulation break-down. While Test #s 2 & 3 indicate conductor break-down. Either insulation or conductor break-down, on its own, leads to Cable failure or fire.

400 Hz Banded Cable Assemblies and Field Repairable Connectors



Complete Cable Assemblies

J&B Aviation offers a cost effective alternative to our high performance single jacket power cables. The J&B 400Hz Banded Cable Assemblies are manufactured in accordance with the following:

- Specifications C5756 - cable specification
- Mil Spec 25488 - connector specification
- Mil-C-7974D - assembly specification

The J&B Aviation 400 Hz Cable Assemblies are available in a variety of lengths and performance features to suit your requirements and specifications.

Attachable Connectors

J&B Aviation offers a wide variety of replacement 400Hz aircraft attachable connectors that can be installed in the field on your existing 400Hz banded cable assemblies.

This allows you to replace the worn out heads in service cables, thereby saving money and reducing down time for repairs. Assembly requires a few simple tools and a crimping device. Each kit comes with easy to follow instructions.



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400 Hz Banded Cable

3070 September 2016

TYPICAL 400 HZ BANDED GROUND POWER CABLE ASSEMBLY PART NUMBERS			
TG ^	88 ^	35 ^	60 ^
Nose Type	Connector Type	Cable Type	Length: In Feet

NOSE TYPES	
JB or JBX	Standard replacement contact section (Part # JB7174, JB7173 or JB7174X)
TG or TGX	Thermgard (green) Replacement contact section (Part # JB7178 or JB7178X)
CONNECTOR TYPES	
82	Molded on 400 Hz ground power plug, blue replaceable nose (legacy style)
88	Molded on 400 Hz ground power plug, replaceable nose
71	Molded on 400 Hz ground power plug, standard single piece head
77	Molded on 400 Hz ground power plug, lightweight compact single piece head
CABLE TYPES	
20	4 - # 1/0 AWG MIL-C-5756 Single conductor
21	4 - # 1/0 AWG and 1 # 12 AWG Twin Mil-C-5756 Single conductor
35	4 - #2/0 AWG Mil-C-5756 Single conductor
36	4 - # 2/0 AWG and 1 # 12 AWG Twin Mil-C-5756 Single conductor

Contact your Area Sales Manager who can work with you to determine the right connector for your specific application.

J&B Aviation Field Repairable Connectors are designed to be used with a variety of cables and conductor sizes. The JB5000 and JB5100 Series Field Repairable Connectors use our patented Replacement Contact Section (nose), making service repair easy. The connectors are water tight and each connector is designed to prevent mechanical strain from transferring to the electrical termination.

All Field Repairable connectors are sold in kit form with all necessary components required for installation. Standard tools, a hydraulic crimper and dies are required for installation.



JB5000 Series Attachable Connectors:
JB5001 & JB5002



JB5100 Series Attachable
Connectors



CP1623 Series Attachable
Connectors



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J&B Aviation Pre-Conditioned Air Hoses



PCA Duct - Velcro and Zipper - With Scuff

J&B Aviation is the premier supplier of PCA Hoses. The compact and insulated PCA Duct is an extremely flexible heating and air-conditioning duct. It is constructed without wire reinforcement, allowing it to be flattened and rolled when not in use for compact storage. The PCA Duct hose is constructed of two-ply, flexible, heavy duty and highly abrasion resistant vinyl coated fabric with moisture proof insulation between the piles. These flat ducts come with Velcro and Zippers to easily attach to additional sections to form longer duct assemblies.

Features of J&B Aviation PCA Duct:

- Cuff Velcro and Zipper strips to allow for longer duct assemblies
- Available with inside diameters of 14"
- Tolerant to temperature variations of -40° F to + 275° F
- Minimum R-value of 8.0 or greater
- Abrasion resistant scuff strips automatically included
- Wire-Wound Reinforced Ducts also available

Please contact your Area Sales Manager for details and options.

14" DUCT	LENGTH
API410-01	Tapered Adapter
API410-03SS	Starter Section
API410-10	10 Ft.
API410-20	20 Ft.
API410-25	25 Ft.
API442-03SS	Starter Section Wire Wound
API442-10	10 ft. Wire Wound
API442-20	20 ft. Wire Wound
API442-20SS	20 Ft. Starter - Wire Wound

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J&B Aviation Pre-Conditioned Air Hoses



PCA Duct - Velcro and Zipper - Flat Duct - No Scuff

J&B Aviation is the premier supplier of PCA Hoses. The compact and insulated PCA Duct is an extremely flexible heating and air-conditioning duct. It is constructed without wire reinforcement, allowing it to be flattened and rolled when not in use for compact storage. The PCA Duct hose is constructed of two-ply, flexible, heavy duty and highly abrasion resistant vinyl coated fabric with moisture proof insulation between the piles. These flat ducts come with Velcro and Zippers to easily attach to additional sections to form longer duct assemblies.

Features of J&B Aviation PCA Duct:

- Cuff Velcro and Zipper strips to allow for longer duct assemblies
- Available with inside diameters of 14"
- Tolerant to temperature variations of -40° F to + 275° F
- Minimum R-value of 8.0 or greater
- Wire-Wound Reinforced Ducts also available

Please contact your Area Sales Manager for details and options.

14" DUCT	LENGTH
API453-01	Tapered Adapter
API453-03SS	Starter Section
API453-10	10 Ft.
API453-20	20 Ft.
API453-25	25 Ft.
API453-90DEG	3 Ft. - 90° Bend
API453-90DTA	3 Ft. - 90° Bend Tapered to 8"
API442-03SS	Starter Section Wire Wound
API442-10	10 ft. Wire Wound
API442-20	20 ft. Wire Wound
API442-20SS	20 Ft. Starter - Wire Wound



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J&B Aviation Pre-Conditioned Air Hoses



PCA Duct - Velcro - Flat Ducts - No Scuff

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Features of J&B Aviation Flat Duct:

- Cuff Velcro strips to allow for longer duct assemblies
- Available with inside diameters of 14"
- Tolerant to temperature variations of -40° F to + 275° F
- Minimum R-value of 8.0 or greater
- Wire-Wound Reinforced Ducts also available

14" DUCT	LENGTH
AP1483-01*	Tapered Adapter
AP1483-03SS*	Starter Section
AP1483-10*	10 Ft.
AP1483-20*	20 Ft.
AP1483-25*	25 Ft.
AP1483-90DTA	3 Ft. - 90° Bend Tapered to 8"
AP1483-90DEG	3 Ft. - 90° Bend
VS1442-03SS	3 Ft. Starter - Wire Wound
VS1442-10	10 Ft Wire Wound
VS1442-15SS	15 Ft. Starter - Wire Wound
VS1442-20	20 Ft. Wire Wound
VS1442-20SS	20 Ft. Starter - Wire Wound

* Scuff strip not available on the AP1483 series.

Please contact your Area Sales Manager for details and options.



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J&B Aviation Swivel Aircraft Adapter



Aircraft Adapter - JB360

J&B Aviation Services Swivel Aircraft Adapter can be used for heating or air conditioning and utilizes the latest advances of composite technology in the seamless fabrication of the components. This Swivel Adapter is UV resistant and is designed to withstand chemicals, fuels and solvents generally found in the harsh ground support environment. Despite the rugged construction and design, it is light weight making it a necessary component for all PCA units.

All necessary clamps and hoses are included to easily operate with the JB729 and JB730 PCA Connectors.

The JB360 Swivel Aircraft Connector is named after the 360 degree rotation that it provides.

The Patented design compensates for the twists, kinks and alignment issues that all PCA hoses encounter with normal use.

It connects to the aircraft, via the PCA Connector (JB729 or JB730) and allows for maximum airflow to your aircraft. It also relieves the ramp personnel from the task of stopping to straighten the hose and fix any kinks. Various lengths available upon request.



Patent Number: US 8016325 B2
Specifications subject to change without notice.

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J&B Aviation Super Hose™

J&B Aviation's patented Super Hose™ is the lightest and strongest PC Air hose available today. The Super Hose™ is 50-65% lighter than the conventional PVC coated nylon hose and it is 5 times more resistant to abrasion.

The reduced weight makes it the safest PC Air hose for use on the ramp. A 60 ft Super Hose™ weighs only 35 lbs. By comparison, a conventional 60ft PC Air hose can weigh as much as 90-100 lbs. The lighter weight reduces chance of injury and allows the operators to work more efficiently and quickly to make the connections with the aircraft.

The J&B Aviation Super Hose™ Features:

- Lighter weight - 60 ft hose is 35 lbs, compared to 90-100 lbs for conventional hoses
- No-Rip inside liner constructed of woven nylon
- Insulation made from aluminum on one side and polyethylene on the other - same construction as the space blankets used by NASA
- The Super Hose is compatible with the VS wire wound hose series

PART NUMBER	DESCRIPTION
SH1483-01	14" x 8" Tapered Adapter
SH1483-03SS	Starter Section
SH1483-10	14" x 10' Velcro Flat Duct
SH1483-20	14" x 20' Velcro Flat Duct
SH1483-25	14" x 25' Velcro Flat Duct
SH1483-03MS	12" Cuff to 14" Velcro Starter
SH1483-90DEG	90° Elbow



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J&B Aviation 400 Hz Single Jacket Cable Assemblies



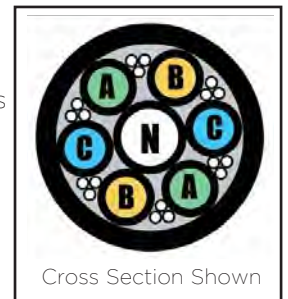
Modular 400 Hz Cable Assemblies

J&B Aviation has built its reputation on quality cables. The J&B Aviation Modular 400 Hz Cable Assemblies provide the best design with the maximum number of options. Our streamlined connector provides greater versatility for the aircraft of today and for future aircraft requirements.

Features include:

- ETL listed to UL standard - J&B Aviation cables are ETL certified. This is especially critical for airport requirements.
- Patented high visibility replacement contact section (nose) - allows for in-field replacement in 3-5 minutes. Worn and damaged noses account for over 75% of all cable failures.
- Plug-in switch modules - allows for in-field replacement in 3-5 minutes with no wiring. Gold plated contacts ensure superior electrical connections in the most adverse conditions.

- Cost effective - modular design, superior construction and durability reduce life cycle costs and increases productivity.
- High performance - reduces phase unbalance by 97%, voltage drop by 35% over banded cable.
- Thermgard® Replacement contact section - provides added protection from worn or loose contact by sensing heat rise (hot plug) which can result in fire.
- Most durable high performance cable in the market according to independent studies



Power Conductors	6 EACH, AWG #4
Neutral Conductor	1 each, AWG #1
Control Conductors	6 x 3, AWG #18
Stranding	Class M, Extra Flexible
Voltage Rating	600 VAC
Current Rating	260 Amperes
Cold Bend Rating	-50° C
Voltage Drop	2.80 Volts*
Voltage Unbalance	> 0.20 VOLTS*
Max. Continuous Conductor Temp.	+90° C
Diameter	1.65 inches
Bending Radius	10 inches
Weight per foot	2.1 lbs.

*at 90kVA, 0.8 power factor on 60-ft. cable.



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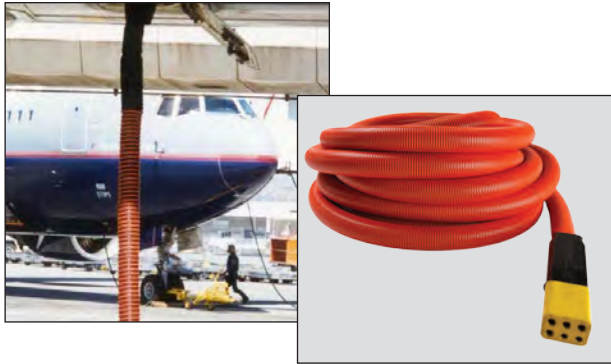
J&B Aviation

400 Hz Single Jacket Cable Assemblies

Cable Protection

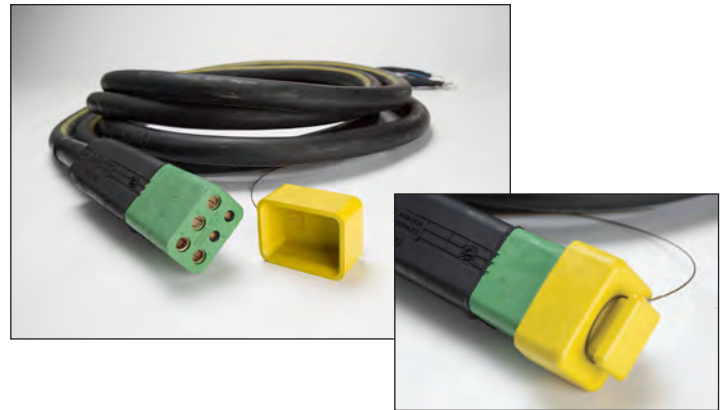
Cable Scuff Jacket - JB7501

The J&B Aviation Cable Scuff Jacket JB7501 / JB7502 allows easy handling of the cable on the ramp and in hangar bays by allowing it to easily slide across the ground surface. The scuff jackets also offer protection against harsh environments and are secured with Cold Shrink. Available in high visibility orange (JB7501 - shown) or gray (JB7502)



Cable Head Dust Cap - JB400CY

The J&B Aviation 400 Hz Cable Head Dust Cap ensures that debris, water and live connectors do not pose a hazard to personnel or equipment. The dust cap fits securely onto any replaceable contact section, as shown below.



TYPICAL GROUND POWER CABLE ASSEMBLY PART NUMBERS				
	TG	95	16	60
	Nose Type	Connector Type	Cable Type	Length: In Feet
NOSE TYPES				
JB or JBX	Standard replacement contact section (Part # JB7174 or JB7174X)			
TG or TGX	Thermgard (green) Replacement contact section (Part # JB7178 or JB7178X)			
CONNECTOR TYPES				
82	400 Hz Ground Power Plug, not prewired for switches, Blue Nose			
88	400 Hz Ground Power Plug, not prewired for switches, Yellow Nose			
86	400 Hz Ground Power Plug with ON/OFF modular switch (2nd module optional)			
94	400 Hz Ground Power Plug with OFF ONLY modular switch (NO or NC)			
95	400 Hz Ground Power Plug with ON/OFF and UP/DOWN modular switches			
CABLE TYPES				
10	Single Jacketed 180 Amp Balanced Center Neutral			
16	Single Jacketed 260 Amp Balanced Center Neutral			
17	Single Jacketed 260 Amp Balanced Center Neutral, Remote Voltage Sensing			

J&B Aviation Replacement Contact Sections



For use on J&B Aviation 400 Hz Cable Assemblies

J&B Aviation has patented the replaceable contact sections for 400 Hz cables. Prolong the life of your cables by replacing the worn contact section. Each of the J&B Aviation replacement contact sections is constructed as one assembly with four (4) new sealing screws, instructions and the necessary tool for easy installation to your existing J&B cables. All replacement contact sections are molded of the highest quality Poly Chloroprene for durability in all ramp conditions.

Replacement Nose Contact Section - Blue - JB7173

This patented replacement contact section can be easily replaced in just 3-5 minutes. Used by the United States Military since 1991, this version is on all cables that begin with JB82XX-XXXNJ, SNG and JB5001, JB5002, JB5003 and JB5004 series of Field Replaceable connectors. Sample: JB8216-100NJ.



"With today's widespread use of external 400 Hz systems, plug and receptacle wear has increased resulting in problems with the electrical connection. A worn or loose contact on one or more of the pins in the connectors can cause high contact resistance which results in a hot plug; in some cases fire or loss of a phase or control voltage (E&F) which causes the aircraft to reject the external 400 Hz power."

- Excerpt from SAE information report, "400 Hz Connection Aircraft Electrical Maintenance Procedures," issue 1994-12.

High Visibility Replacement Contact Section - Yellow - JB7174

This replacement contact section was brought to market in 1996. The JB7174 is used on all cables that begin with JB88, JB85, JB86, JB87 and JB95, SNJ and the JB5100 series of Field Replaceable connectors. Sample: JB9518-100NJ.

Heavy Duty Replacement Nose Contact Section - Black - JB7175

The most durable of replacement contact sections, the black contact section is compatible with all cables listed under the JB7174 (yellow) listed above.



Thermgard® Replacement Contact Section - Green - JB7178

The J&B Aviation patented Thermgard® thermal sensor which is strategically placed in the contact section to constantly monitor the temperature of the ground power connector at the aircraft. When the temperature reaches a predetermined setting, the sensor causes the 400 Hz power to disconnect from the aircraft. The Thermgard® replacement contact section is used on the same cables as the JB7174, JB5101, JB5103 and JB5104 series of Field Replacement connectors.

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J&B Aviation Replacement Contact Sections

J&B Aviation Introduces the Next Generation Replacement Contact Section: JB7174X and JB7178X

The new Replaceable Contact Section from J&B Aviation is specially designed with a tapered edge to fit securely on any aircraft on the market today that utilizes 400 Hz power. This 400 Hz replaceable contact section comes with a cap made of a highly durable composite selected for its strength, durability and longer life. This newly designed replaceable cap is compatible with all aircraft types.

The JB7174X (yellow) and the JB7178X (green) with Thermgard® are designed to increase the lifespan of your replaceable contact sections.

The JB717-C Abrasion Resistant Wear Cap will prolong the life of cables even longer by allowing the nose cap to be easily replaced.

The new J&B Aviation composite Replacement Contact Sections will:

- Reduce wear and tear to extend service life of cables
- Extend the life of your replacement contact sections
- Reduce maintenance down time, saving time and money



JB7178X Green
with Thermgard®



JB7174X Yellow



JB717-C Abrasion Resistant Wear Cap Kit

Contact your J&B Aviation Area Sales Manager for details.

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J&B Aviation Nylon PCA Connector



J&B Aviation is proud to introduce the JB730 PCA Connector with Snap-On Gasket

We have made replacing the gaskets on our PCA connectors easier and more efficient with the JB730 Snap-On Gasket!

The JB730 is made from the same high quality nylon composite as the JB729 but now offers a Snap-On Gasket that can be replaced in minutes compared to hours. The Snap-On Gasket allows the maintenance team to replace worn gaskets on PCA Connectors while still in the field. No need to take the PCA Connector out of service and spend hours replacing the gasket. The JB738 Snap-On Gasket can now be replaced in the field, thereby eliminating down time.

The JB730 PCA Connector is UV resistant and is designed to withstand chemicals, fuels and solvents generally found in the harsh ground support environment. Despite the rugged construction and design, it is light weight making it making it easy to use.

The JB730 PCA Connector with Snap-On Gasket can be used for heating or air conditioning and is designed to be used with the JB360 Swivel Adapter for improved airflow performance.

Now with the Snap-On Gasket, the JB730 PCA Connector is even more indispensable!

- No down time for the PCA unit or the bridge
- Replace worn gaskets on the spot in minutes instead of hours
- Improve productivity and efficiency
- No special tools required

The J&B Aviation PCA Connector with Snap-On Gasket is also available with an optional stainless steel screen providing additional protection from larger contaminants entering into the aircraft's heating or cooling duct system.

Options

- JB730 PCA Connector
- JB730SC PCA Connector with screen
- JB738 Gasket with base plate

Dimensions and Weight

- Overall length - 12.25" from top of latch to bottom of handle assembly
- 5.15 lbs.



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J&B Aviation Nylon PCA Connector

J&B Aviation Services Patented Nylon PCA connector is the most durable of its kind in the industry.

Our patented process for seamless fabrication molds the body of the latching mechanism into the connector itself, thereby providing greater strength and stability. It can be used for heating or air conditioning and eliminates the need to purchase additional items.

This Nylon PCA Connector is UV resistant and is designed to withstand chemicals, fuels and solvents generally found in the harsh ground support environment. Despite the rugged construction and design, it is light weight making it a necessary component for all PCA units.

The J&B Aviation Services Patented Nylon PCA Connector is also available with an optional stainless steel screen providing additional protection from larger contaminants entering into the aircraft's heating or cooling duct system.

Options

- JB729 - Nylon Composite with Neoprene Gasket
- JB729SC - Nylon Composite Screened PCA Connector with Neoprene Gasket
- JB741 - Neoprene Gasket

Dimensions & Weight

- Overall length - 12.25" from top of latch to bottom of handle assembly.
- 4.75 lbs.

The patented JB360 Swivel Adapter is also available for use with the JB729 PCA Connector to increase airflow performance.

JB729SC Nylon Composite
Screened PCA Connector
Patent Number: 7,152,886 B2



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Flat Duct Reel Cart and Yoke Assembly

Flat Duct Reel Cart

J&B Aviation has the perfect solution for storing PC Air ducts. The J&B Aviation Flat Duct Reel Cart, JB680 provides convenient airside storage by eliminating obstructions on the ramp for ground personnel and ramp vehicles. It reduces wear and tear to your PC Air hose and the PC Air connectors, prolonging the life of these important components of your operation.

Features of the Flat Duct Reel Cart:

- Equipped with toe brakes
- Finished in safety yellow color
- Storage capacity of up to 80 feet of 12" or 14" diameter duct
- Attaches to passenger loading bridge or it can function as a stand-alone unit
- Reduces obstructions on the ramp

Contact your Area Sales Manager for available configurations.



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Yoke Assembly

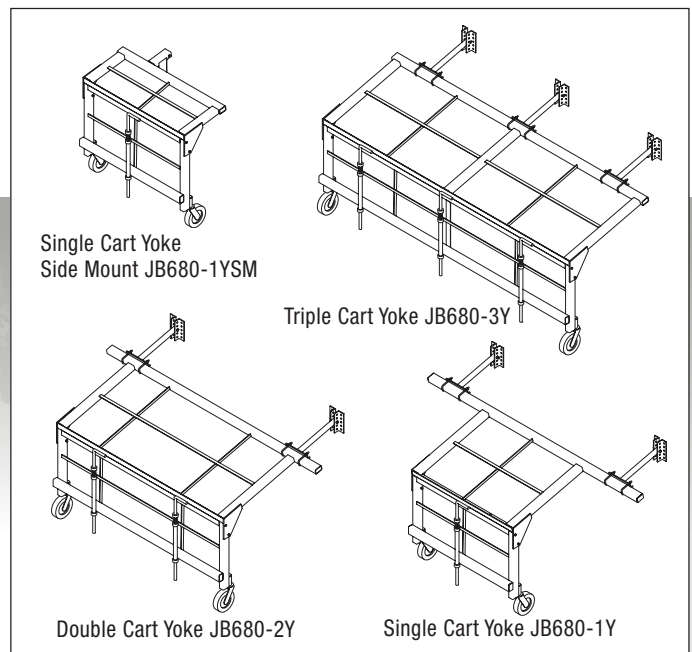
J&B Aviation offers a Yoke Assembly to easily store PC Air Flat Duct Reel carts to further reduce obstructions on the ramp. The J&B Aviation Yoke Assembly can attach to the passenger loading bridge or can function as a stand-alone unit. The Yoke Assembly is made of rugged steel with heavy duty casters and is finished in safety yellow for use in all weather conditions.



Features of J&B Aviation Yoke Assembly:

- Designed to hold 1 to 3 PC Air Flat Duct Reel Carts
- Can be used with any aircraft
- Attaches Flat Duct Reel Carts to the passenger boarding bridge for safe storage.
- Protects PC Air hose and connectors

The J&B Yoke Assembly is available in the following configurations:



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J&B Aviation Premium Pre-Conditioned Air Hose



J&B Aviation is the premier supplier of PCA Hoses. The compact and insulated Flat Duct is an extremely flexible heating and air-conditioning duct. It is constructed without wire reinforcement, allowing it to be flattened and rolled when not in use for compact storage. The Flat Duct hose is constructed of two-ply, flexible, heavy duty and highly abrasion resistant vinyl coated fabric with moisture proof insulation between the piles.

Features of J&B Aviation Flat Duct:

- Abrasion resistant scuff strip
- Cuff zippers and Velcro strips to allow for longer duct assemblies
- Available with inside diameters of 8", 10", 12" and 14"
- Tolerant to temperature variations of -40° F to + 275° F
- Minimum R-value of 8.0 or greater



8" DUCT	10" DUCT	12" DUCT	14" DUCT	LENGTH
JZ0810-10	JZ1010-10	JZ1210-10	JZ1410-10	10 Ft.
JZ0810-20	JZ1010-20	JZ1210-20	JZ1410-20	20 Ft.
JZ0810-25	JZ1010-25	JZ1210-25	JZ1410-25	25 Ft.

The Flat Duct is also available without the abrasion-resistant scuff strip resulting in a lighter weight hose and more compact when stored. This can be advantageous when longer duct is needed.



8" DUCT	10" DUCT	12" DUCT	14" DUCT	LENGTH
JZ0850-10	JZ1050-10	JZ1250-10	JZ1450-10	10 Ft.
JZ0850-20	JZ1050-20	JZ1250-20	JZ1450-20	20 Ft.
JZ0850-25	JZ1050-25	JZ1250-25	JZ1450-25	25 Ft.



Flat Tapered Adapters

JZ1050-01	10" Tapered To 8"
JZ1250-01	12" Tapered To 8"
JZ1450-01	14" Tapered To 8"



Also available are the Wire-Wound Reinforced Ducts. These ducts come insulated or non-insulated and are available in diameters ranging from 5 inches to 36 inches. Various lengths are available to suit your needs, from 18 inches to 50 feet. Ducts can be finished with plain cuffs, zippers, Velcro or a combination of finishings.

J&B AVIATION is part of ITW GSE
- the world's leading supplier of Ground Support Equipment



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ITW GSE Americas
 11001 US Highway 41 North
 Palmetto, FL 34221
 U.S.A.

Toll Free: 1-800-621-0074
 Phone: 1-941-721-1018
 Fax: 1-941-721-1089
 Email: jandbsales@itwgse.us
 Web: www.us.itwgse.com

J&B Aviation

Premium Pre-Conditioned Air Hose

J&B Aviation offers a variety of Elbows, Tapered Adapters and Support mechanisms for the PC Air Ducts.

The Elbows are available in 45° and 90° and insert directly into the duct system allowing for uninterrupted air flow and can be used to bypass obstructions on the ramp.



JZ1210-45DEG	12"	45° Elbow
JZ1210-90DEG	12"	90° Elbow
JZ1410-45DEG	14"	45° Elbow
JZ1410-90DEG	14'	90° Elbow

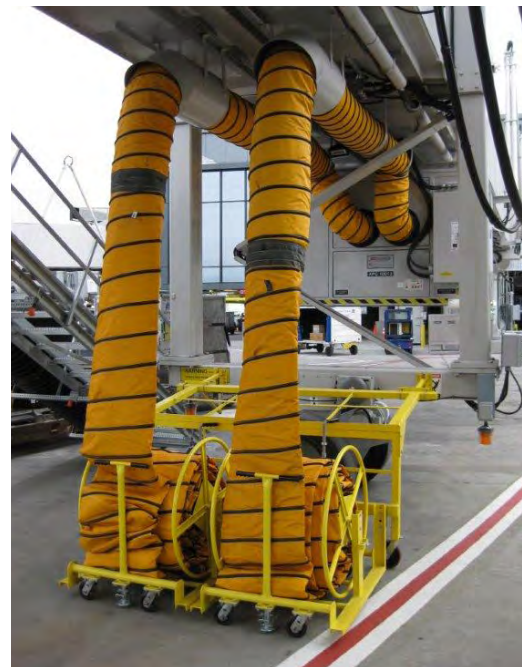
Tapered Adapters also insert directly into the duct system for the final connection to the aircraft connector. J&B Aviation Adapters are available in two styles - straight tapered or 90° tapered.



STRAIGHT TAPERED ADAPTERS	
JZ1010-01	10" tapered to 8"
JZ1210-01	12" tapered to 8"
JZ1410-01	14" tapered to 8"

90° TAPERED ADAPTERS	
JZ1007-90DEG	10" tapered to 8"
JZ1207-90DEG	12" tapered to 8"
JZ1407-90DEG	14" tapered to 8"

The JB1562 PCA Hose Support is available in a variety of configurations. Please contact your Area Sales Manager for details and options.



30/9 September 2016



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J&B Aviation Test Equipment



Test Equipment JB471/JB472/JB473

These items are included in the J&B Test Kit and are also sold individually.

"A worn or loose contact on one or more of the pins in the connectors can cause high contact resistance which results in a hot plug; in some cases a fire or loss of a phase or control voltage (E&F) which causes the aircraft to reject the external 400 Hz power." Excerpt from SAE information report, "400 Hz Connection Aircraft Electrical Maintenance Procedures," issue 1994-12.



The **JB471 Aircraft Connector Tester** is a "Go/No-Go" device that is utilized to determine whether the aircraft's 400 Hz pins are worn beyond accepted tolerance levels. Simply try to insert the Aircraft Connector Tester over the appropriate pin. If the gauge slides over the pin, a worn or loose contact is indicated, and the connector must be replaced to prevent possible damage.

The **JB472 Pin Gauge Tester** is a precision machined tool that provides for the proper testing of aircraft cable plugs to ensure positive, safe connection.

The Pin Gauge Tester features an aluminum body, tooled steel pins, a pull strap and instruction placard.



The JB472 meets Mil spec. for all cable heads.

The **JB473 Tensionometer** provides an accurate digital readout for testing removal force.

This Tensionometer comes with clasp to hook to the JB472 and is accurate to +/- 3oz.



Specifications are subject to change.

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J&B Aviation Cable & Connector Test Kit

Now Available - J&B Aviation Cable Inspection Test Kit

We've made cable inspection and maintenance easier with the J&B Aviation Cable Inspection Test Kit.

We have packaged everything needed to test and inspect your cables in one convenient kit. All components come packaged in a heavy duty lockable protective case.

Kit includes:

- JB471 Aircraft Connector Tester
- JB472 Pin Gauge Tester
- JB473 Tensionometer
- JB474 Flir Imaging IR Thermometer
- Wire brushes - clean out contacts
- Step by step instructions for inspecting cables and connectors!

This Cable and Connector test kit is assembled to provide all the tools and supplies needed for testing of your cables and connectors in the field or in the shop!

Contact your Area Sales Manager for pricing and availability!



Kit PN: JBCK-6



JB474 - Flir
Imaging IR Thermometer



JB473 - Tensionometer



JB471 - Aircraft Connector Tester



JB472 - Pin Gauge Tester

ITW GSE J&B AVIATION

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J&B Aviation 28V DC Cables and Options

Complete Cable Assemblies

J&B Aviation produces the premier two-conductor banded 28 volt cable assembly with a molded head to take the harsh operational environment of today's flight line. The J&B Aviation 28V DC Cable Assembly is manufactured in accordance with the following:

- Specifications C5756 - cable specification
- Mil Spec 25488 - connector specification
- Mil-C-7974D - assembly specification

The J&B Aviation 28V DC Cable Assemblies are available in the following conductor sizes and standard cable lengths of 30', 40', 50' and 60'.

1/0 AWG = JB2810-xx*

2/0 AWG = JB2820-xx*

4/0 AWG = JB2840-xx*

() Indicates length of cable in feet. 28V DC Cables can also be built to meet your specifications.*

Attachable Connectors

Replacement 28V DC aircraft attachable connectors that can be installed in the field!

This allows you to replace the worn out heads in service cables, thereby saving money and reducing down time for repairs. The replacement plugs meet Mil Spec 25488 and contain all the necessary components to assemble it right onto your existing cable. Assembly requires only a few simple tools and a crimping device. Each kit comes with easy to follow instructions. Here are the most commonly used replacement connector kits for these 28V DC cable wires sizes:

1/0 AWG = CP1765-1

2/0 AWG = CP1765-2

4/0 AWG = CP1765-3

Contact your Area Sales Manager for any unique requirements you have.



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