



Aircraft Cable Management Systems

The logo for CONDUCTIX wampfler features a stylized grey circular graphic on the left, composed of three curved segments. To its right, the word 'CONDUCTIX' is written in a bold, orange, italicized sans-serif font, and 'wampfler' is written below it in a bold, black, lowercase sans-serif font.

Ⓞ DELACHAUX GROUP



CONDUCT
wampf
DELTA GROUP



Passenger Loading Bridge

Cable Reel PLB400

In today's rapid-turnaround airport environments, the **PLB400** 400 Hz cable reel system provides a quick and reliable source of power for parked aircraft. Aircraft systems powered from ground power sources save fuel and improve air quality at the airport.



The reel can be mounted horizontally under the passenger bridge or under the 400 Hz converter. Or it can mount vertically to the side of the bridge.

The precision-engineered internal reel mechanism flawlessly unwinds and rewinds cables and keeps them protected.

Benefits of the PLB400

The sophisticated reeling system provides the maximum protection for your cable investment. It eliminates the need to stow cables in a pit, suspend them on a hoist, move them around in a trailer, or leave them on the tarmac.

With cable safely stowed, safety risk to ground personnel is greatly reduced. The cable will not obstruct the movement of ramp vehicles.

Cables stored in the PLB400 reel system cannot catch on aircraft doors; a common problem with cable hoist systems.

PLB400 Features

Minimal space consumption - the unit is only 610mm (24") high!

Accurate winding is provided by precision rollers and rugged cable guiding device.

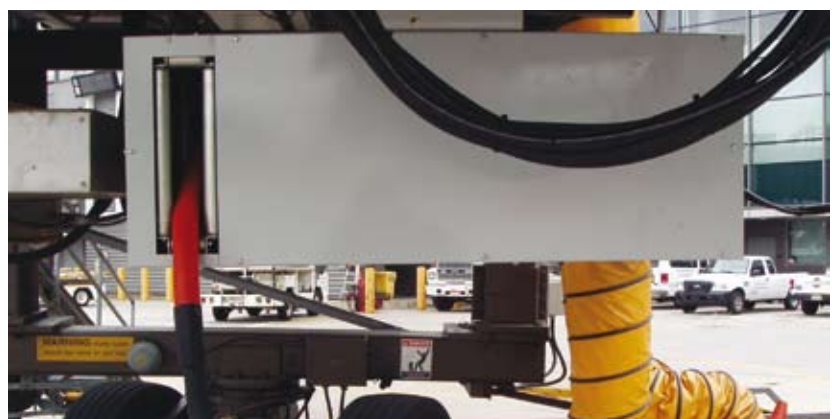
Advanced electronic control system with programmable operating parameters.

Fail-safe overload protection stops the spool from rotating if the line-pull on the cable ever becomes excessive.

Fully protected components; spool, drive motor, slip ring assembly, and control system are completely enclosed.

Easy servicing, since the major components are modular. Cable replacement, if necessary, can be done in less than two hours.

Easy installation, set-up, and operation. Just mount the reel, wire the 400 Hz cable and the motor power supply to start protecting your cables!



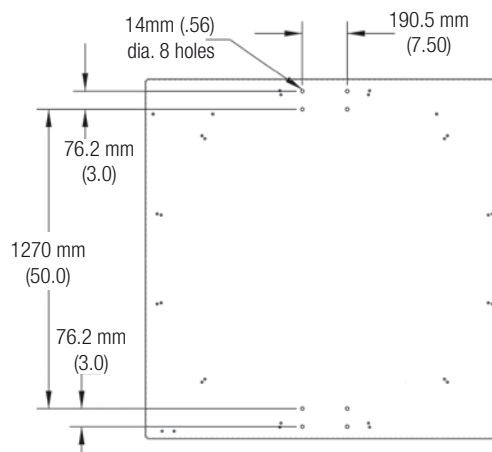
PLB400

Specifications

Description	Specifications
Construction:	
Spool and Slip Ring Enclosure	Aluminum
Frame and Exterior Panels	Steel
Hardware	Stainless Steel, Metric
Standard Exterior Finish	Ultrasonic Chrome Urethane Enamel
Optional Exterior Finishes	Contact the Factory
Mounting:	
Orientation	Horizontal or Vertical
Mounting Brackets	Customized to fit any suitable passenger loading bridge. Interfaces with mounting holes shown below.
Unit Dimensions:	
Horizontal - W x D x H	1534mm x 1534mm x 610mm (60.38" x 60.38" x 24")
Unit Weight:	
With 27.44 m (90 ft.) of Single Jacketed 400 Hz Cable	442.25 kg (974 lbs.)
400 Hz Cable	
Maximum Length	36.57 m (120 ft.)
Cable Types	Can be set up to accommodate most types, with or without scuff protection.
Operating Temperature Range:	
Ambient	-40°C to +55°C (-40°F to 131°F)
Electrical Enclosure:	
Weather Resistant	IP65 (NEMA 4)
Retraction Motor Input Voltage Options:	
50 or 60 Hz	100-120 V Single-Phase 200-240 V Single-Phase 200-240 V Three-Phase 380-480 V Three-Phase
Programmable Electronic Controls:	
	1. Cable In / Cable Out Limits 2. Adjustable Speed Control: 1.52 m/m to 30.48 m/m (5 f/m to 100 f/m) 3. Starting Acceleration (for soft starts) 4. Spool Brake Delay (for soft stops) 5. Driveline Monitoring 6. Safety Stop: In and out directions - in case cable is caught under a service vehicle or is otherwise impeded from retracting 7. Safety Interlock: Retraction motor won't operate if 400 Hz power is on

PLB400 Mounting Configuration

Conductix-Wampfler offers custom-designed brackets to fit most any mounting requirement. Contact Conductix-Wampfler to discuss your unique needs.



Tarmac Mounted Cable Reels

Conductix-Wampfler manufactures several other reel configurations to manage 400 Hz cables or hoses on the tarmac.

The PLB400, as described on the previous pages, can be “tarmac mounted”. In addition, we also build “bulk-wrap” style spools in single, side-by-side, or stacked configurations.



For this style of reel, the motor control system is manually activated with a push-button switch.

All assemblies are weather-proof NEMA 4 / IP56 and can be equipped with expanded metal safety panels and other devices to protect the reels from tarmac traffic.



Double-stacked reels to save space; Shown with protective mesh enclosure.



PLB400 mounted at the tarmac level and suspended above the converter.



The PLB400 can be used with with any model of 400 Hz converter; shown here mounted next to the converter.

Contact us with your requirements!



Hangar and Maintenance Area Cable Reels

Conductix-Wampfler designs and manufactures reels to manage 400 Hz cable and hoses in maintenance hangar environments.

These are generally “bulk-wrap” style reels in either motorized or spring-driven configurations.

We also offer a full array of standard spring-driven reels to handle 300 and 600 volt cables and hoses. All electrical assemblies are sealed to NEMA 4/IP56 standards, and can be equipped with various cable sizes and types.



Contact us with your requirements!



Series 5159PR style reel mounted on a walkway above the floor.



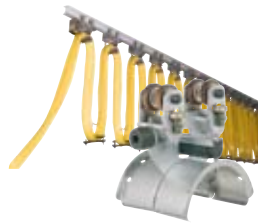
Wall-Mounted

Pedestal-Mounted

Other Quality Products from Conductix-Wampfler

Aviation Cable Management Systems from Conductix-Wampfler represent only one of the many solutions made possible by the broad spectrum of Conductix-Wampfler products for the transmission of energy and data. In every case, the solutions we deliver for your applications are based upon your specific requirements.

Often a combination of several different Conductix-Wampfler systems will be required, which is why you want to work with a full-line electrification company. You can count on all of Conductix-Wampfler's divisions for hands-on engineering support coupled with the perfect solution to meet your energy management and control needs.



Festoon systems

Conductix-Wampfler Cable Trolleys are used in virtually every industrial application. They are reliable and robust and available in an enormous variety of sizes and designs.



Cable reels

Motorized and Spring-Driven Cable Reels by Conductix-Wampfler are proven solutions wherever energy and data cables have to cover a range of distances within a short amount of time - in all directions, fast and safe.



Conductor Bar

Whether they are enclosed conductor rails or expandable single-pole systems, the proven Conductor Bar systems by Conductix-Wampfler reliably move people and material.



Energy Guiding Chains

The "Jack of all trades" when it comes to transferring energy and data. Our broad range of energy guiding chains are proven performers in industrial applications.



Push Button Pendants and Radio Controls

Our ergonomic pendants and radios controls are ideally suited for industrial control applications. These are available in a wide range of configurations for overhead crane control and other types of machinery.

www.conductix.com

USA

10102 F Street
Omaha, NE 68127

CANADA

175 Blvd JF Kennedy
St. Jerome, QC J7Y 4B5

MEXICO

Calle Treviño 983-C
Zona Centro
Apodaca, NL Mèxico 66600

Customer Support

Phone: (+1) 800 521 4888

Fax: (+1) 800 780 8329

Phone: (+1) 402 339 9300

Fax: (+1) 402 339 9627

info.us@conductix.com

Customer Support

Phone: (+1) 800 667 2487

Fax: (+1) 800 442 9817

Phone: (+1) 450 565 9900

Fax: (+1) 450 432 6985

info.ca@conductix.com

Customer Support

Phone: (+52) 81 1090 9519

(+52) 81 1090 9025

(+52) 81 1090 9013

Fax: (+52) 81 1090 9014

info.mx@conductix.com

Contact us for our Global Sales Offices

