

# PDU Cables™

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connect with us™



**Innovator in Data Center Efficiency<sup>SM</sup>**



Thank you for choosing PDU Cables. We are the leading supplier of power distribution cable assemblies to data centers in North America since 1981 and the sole supplier of the Air Guard Cable Seal product line. PDU Cables is the first independent cable assembly company to introduce colored conduit into the power distribution cable market, the first to get a UL 478 listing, and the first company to introduce the Power Cable and Equipment Configurator software tool. PDU Cables offers 24 hour turn around and transit times of one to three days to most U.S. destinations.

We have been told by our customers that our high quality products and our experienced PDU Cables team, providing unsurpassed product knowledge and excellent customer service, is what keeps them coming back.

Over 5,000 data centers across the U.S. are using PDU Cables. Electrical contractors use our factory-fabricated assemblies to save time, labor and reduce overall project costs.

Experience why thousands of data center professionals - including many Fortune 500 Companies, financial institutions, schools and universities, manufacturing and industrial facilities, and government organizations - have made us their choice.

We look forward to doing business with you.



Duncan Lee, CEO  
PDU Cables

## CABLES

PDU Cables allows you to customize your cables by providing a variety of options to accommodate every specific cable need in your data center. Our main focus is to help you develop the correct cabling solution for your specific environment.

### Cable Types:

- ∴ Liquid-tight conduit cables
- ∴ SO Cord assemblies with male plugs
- ∴ SO Cord assemblies with female connectors
- ∴ MC Cables
- ∴ Field Wires



### Receptacle Types:

- ∴ Russell Stoll – Inline or box type
- ∴ IEC 309 – Pin and Sleeve
- ∴ NEMA – Standard locking or straight blade



*(Please see our cable and field wire configuration charts on pages 6 and 7.)*

### Custom Cable Configurations:

- ∴ Single or multiple circuit cables
- ∴ Cable and tails cut to any length
- ∴ Nine liquid-tight conduit colors to separate primary power from redundant power, identify individual cable runs and mark each panel board within the PDU



- |  |  |  |
|--|--|--|
| <span style="color: blue;">●</span> Blue     | <span style="color: purple;">●</span> Purple | <span style="color: red;">●</span> Red     |
| <span style="color: yellow;">●</span> Yellow | <span style="color: black;">●</span> Black   | <span style="color: white;">●</span> White |
| <span style="color: orange;">●</span> Orange | <span style="color: gray;">●</span> Gray     | <span style="color: green;">●</span> Green |



- ∴ Plug-in or Bolt-in style circuit breakers in stock for your convenience
- ∴ Variety of mounting options available (i.e. uni-strut or pedestal mounts)

## CABLE QUALITY

PDU Cables is committed to meet and exceed the needs of our customer by providing quality products supported by excellent service and in-house expertise.

Standard Quality Components:

- ∴ Die Cast weather proof boxes
- ∴ Industrial grade receptacles
- ∴ Stainless steel faceplates
- ∴ Liquidtight conduit with integrated copper ground
- ∴ THHN wire

Note: Custom components available upon request.

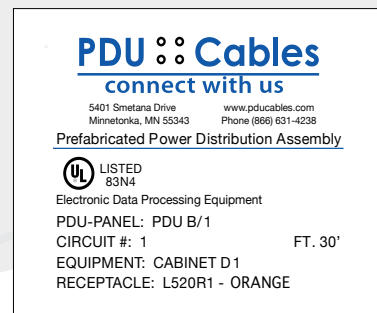
PDU Cables only uses industrial devices that meet UL Standards and that are engineered to the highest level of quality for unequaled reliability and safety. If your data center is “mission-critical”, uptime depends on the integrity of your electrical system. Rely on PDU Cables to provide a complete pre-fabricated power distribution assembly solution to ensure high reliability for your network.

## CABLE LABELING

PDU Cables offers a FREE custom labeling option that specifies your exact custom cable requirements. The labels are protected by clear heat shrink tubing to prevent alteration or accidental removal, and are located at each end of the cable.

PDU Cables identification labels reference:

- ∴ UL Certification
- ∴ PDU/RPP Identification
- ∴ Circuit Number
- ∴ Cable Length
- ∴ Equipment
- ∴ Device Type



Sample Label

## UL LISTING

PDU Cables meets all requirements of UL Standard 478. UL listed cables assures the electrical inspector that the cables will meet the stringent UL Standards. All cables are manufactured with UL listed components and are certified as a UL listed assembly.



An important labor savings benefit that the UL listing provides, under the National Electrical Code (NEC) Article 350.30(A), is that our power distribution cables do not have to be securely fastened in place every 4.5 feet; expediting cable integration and installation.

### ARTICLE 350.30(A)

*LFMC shall be securely fastened in place by an approved means within 300mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4m (4 1/2 feet).*

### ARTICLE 645.5(E)

*Power Cables and associated boxes, connectors, plugs, and receptacles that are LISTED as part of, or for, Information Technology Equipment shall NOT be required to be secured in place.*

## TESTING

All PDU Cables are thoroughly factory-tested and checked to ensure unsurpassed performance and reliability.

Ground continuity and Hi-Pot quality assurance testing is performed on each cable. These tests meet UL requirements for data processing equipment cables.

Testing ensures the following:

- ∴ Proper ground integrity
- ∴ Continuity
- ∴ No insulation leakage
- ∴ Proper phase rotation
- ∴ Circuit voltage capacity (tested at twice-rated circuit voltage plus 1000 volts)

Note: Each cable is marked with the manufacturer date. Test reports are retained for each cable by circuit and panel number. Individual test documents are available upon request for all cable orders.

**HiPOT Test Results**

MC #	RECEPTACLE #	CIRCUIT #	PANEL #	LENGTH	PHASE	TEST
1	100001	01	01	30	Phase	Pass
2	100002	02	01	30	Phase	Pass
3	100003	03	01	30	Phase	Pass
4	100004	04	01	30	Phase	Pass
5	100005	05	01	30	Phase	Pass
6	100006	06	01	30	Phase	Pass
7	100007	07	01	30	Phase	Pass
8	100008	08	01	30	Phase	Pass
9	100009	09	01	30	Phase	Pass
10	100010	10	01	30	Phase	Pass
11	100011	11	01	30	Phase	Pass
12	100012	12	01	30	Phase	Pass
13	100013	13	01	30	Phase	Pass
14	100014	14	01	30	Phase	Pass
15	100015	15	01	30	Phase	Pass
16	100016	16	01	30	Phase	Pass
17	100017	17	01	30	Phase	Pass
18	100018	18	01	30	Phase	Pass
19	100019	19	01	30	Phase	Pass
20	100020	20	01	30	Phase	Pass
21	100021	21	01	30	Phase	Pass
22	100022	22	01	30	Phase	Pass
23						
24						
25						
26						
27						
28						
29						
30						

QAS  
Quality Assurance Systems

Sample of Test Results

## POWER CABLE AND EQUIPMENT CONFIGURATOR TOOL

The Power Cable and Equipment Configurator™ enables you to create custom cable assembly plans. Drop down menus for receptacle or field wire types automatically populate the following:

- ∴ Poles/Amps
- ∴ Phase
- ∴ Volts
- ∴ Conduit size
- ∴ Wire Quantity/AWG

Note: Upgrades in conduit and wire size are available.

Drop down menus for custom cable configuration include:

- ∴ Cable Length
- ∴ Conduit Color
- ∴ Breaker Brand/Style

Use our Power Cable and Equipment Configurator to easily enter label specifications and to document equipment cabling location moves and changes.

Advantages of the Configurator include:

- ∴ Detailed power cable specifications automatically provided
- ∴ Customized equipment labeling fields
- ∴ Same day pricing with electronic submittal
- ∴ Excellent tool for future cable and equipment management
- ∴ Convenient online tool for easy access day and night
- ∴ Downloadable from PDU Cables' website: [www.pducables.com](http://www.pducables.com)

**STEP 1: Power Cable & Equipment Configurator**

Cable No.	Cable information			Receptacle or Field Wire Type	Cable Length	Volts/ Amps	Phase	Conduit	
	PDU-PANEL	Circuit #	Equipment					Size	Color
1	PDU B/1	1	Cabinet D1	LS20R1	30	120/20	1	1/2"	Orange
2	PDU B/1	3, 5	Cabinet D1	LS20R1	30	208/20	1	1/2"	Yellow
3	PDU B/1	7	Cabinet D3	LS20R1	45	120/20	1	1/2"	Green
4	PDU B/1	9, 11	Cabinet D3	LS20R1	45	208/20	1	1/2"	Blue
5	PDU B/1	13	Cabinet D5	S20R2	50	120/20	1	1/2"	Orange
6	PDU B/1	15	Cabinet D5	LS20R1	50	120/20	1	1/2"	Orange

**STEP 2: Label is customized**

**STEP 3: Customized Label is applied to conduit**

## QUICK 3 STEP PROCESS

### STEP 1:

Download the **FREE** software from [www.pducables.com](http://www.pducables.com). Click on the Power Cable and Equipment Configurator tab.

### STEP 2:

Complete the spreadsheet that provides drop down fields for receptacle type, cable length, breaker brand/style, and cable color. Electrical specifications automatically populate. Customize the Label Information fields by providing the PDU Panel #, Circuit # and Equipment description.

### STEP 3:

The information is downloaded from the configurator and used to create accurate labels.

Please contact your Regional Sales Manager for more information.

## CUSTOMER SERVICE

The PDU Cables team prides themselves on being fast, reliable and knowledgeable, while remaining cost effective. With 28 years of engineering and manufacturing experience, no cabling project is new to us. That means we're expert trouble-shooters and can help you see and counteract obstacles before they occur.

Let PDU Cables develop your cabling and custom labeling specifications from your engineered drawings, free of charge.

## EASY TO ORDER

A single source for a quick, hassle-free order; our knowledgeable staff can answer your technical questions.

## PACKAGING

The custom-built PDU power cables are coiled into sturdy fiber drums and barreled by PDU designation (or other customer provided specifications). The fiber drums provide cable protection during shipment and are easy to unload and move around the job site. Each drum is labeled with a barrel sheet that identifies the exact contents, making installation simple and efficient.



## FAST PRODUCTION AND GUARANTEED ON-TIME DELIVERY

Most orders are built and shipped within 24 hours. Numerous US locations, via standard freight, are one to three days shipping point.

## CUSTOMER LOG-IN WEBSITE

The PDU Cables customer log-in website allows you to manage your PDU Cables account easily. Look up invoices, check the status of an order, and track your shipments using our Order Query link. The Document List link on the website allows you to access critical informational documents such as our Air Guard and Cable Specification Guides as well as independent grommet testing packages.

## LIMITED LIFETIME WARRANTY AND REPLACEMENT GUARANTEE

PDU Cables ensures that all cable assemblies and Air Guard Products are free from defects in quality or workmanship from the date of original purchase. If any product fails because of a manufacturing defect, contact your Regional Sales Representative immediately.

(PDU Cables' warranty excludes connectors, circuit breakers, and devices and does not cover damages due to accidents, abuse, or improper installation other than its specified purpose.)

PART NO.	RECEPTACLE	SERVICE			BREAKER		WIRE		CONDUIT Inches
		Volts	AMP	Phase	P	A	Quantity	Size	
<b>RUSSELLSTOLL® CONNECTORS</b>									
IBM A	RS 3913	208	20	1	2	20	3	12 AWG	.5
IBM A-U1	RS 3913-U1	120	20	1	1	20	3	12 AWG	.5
IBM A-U2	RS 3913-U2	208	15	1	2	15	3	12 AWG	.5
IBM B	RS 3914	208	15	3	3	15	4	12 AWG	.5
IBM C	RS 3933	208	30	1	2	30	3	10 AWG	.5
IBM D	RS 3934	208	30	3	3	30	4	10 AWG	.5
IBM E	RS 7428	208	60	3	3	60	4	6 AWG	.75
IBM F	RS JCS1034H	208	100	3	3	100	4	3 AWG	1.25
<b>IEC 309 CABLES</b>									
320C6W	A3206C6W	250	20	1	2	20	3	12 AWG	.5
330C6W	330C6W	250	30	1	2	30	3	10 AWG	.5
360C6W	A3606C6W	250	60	1	2	60	3	6 AWG	.75
420C9W	420C9W	208	20	3	3	20	4	12 AWG	.5
430C7W	430C7W	480	30	3	3	30	4	10 AWG	.5
430C9W	430C9W	250	30	3	3	30	4	10 AWG	.5
460C9VO	460C9VO	208	60	3	3	60	4	6 AWG	.75
460C9W	460C9W	208	60	3	3	60	4	6 AWG	.75
4100C9	4100C9	250	100	3	3	100	4	4 AWG	1.25
560C9W	560C9W	208	60	3	3	60	4	6 AWG	1.0
5100C9W	5100C9W	208	100	3	3	100	5	4 AWG	1.25
<b>NEMA STRAIGHT BLADE CABLES</b>									
515R1*	5261	120	15	1	1	15	3	12 AWG	.5
515R2*	5262	120	15	1	1	15	3	12 AWG	.5
515R4*	5262 (2)	120	15	1	1	15	3	12 AWG	.5
520R1*	5361	120	20	1	1	20	3	12 AWG	.5
520R2*	5362	120	20	1	1	20	3	12 AWG	.5
520R4*	5362 (2)	120	20	1	1	20	3	12 AWG	.5
530R1*	9308	120	30	1	1	30	3	10 AWG	.5
550R1	9360	120	50	1	1	50	3	8 AWG	.5
615R1*	5661	208	15	1	2	15	3	12 AWG	.5
615R2*	5662	208	15	1	2	15	3	12 AWG	.5
615R4*	5662 (2)	208	15	1	2	15	3	12 AWG	.5
620R1*	5461	208	20	1	2	20	3	12 AWG	.5
620R4*	5462 (2)	208	20	1	2	20	3	12 AWG	.5
630R1*	9330	208	30	1	2	30	3	10 AWG	.5
1420R1	8410	120/208	30	1	2	20	4	12 AWG	.5
1430R1	9430	120/208	30	1	2	30	4	10 AWG	.5
1450R1*	9450	120/208	50	1	2	50	4	8 AWG	.75
<b>NEMA STANDARD LOCKING CABLES</b>									
L515R1*	4710	120	15	1	1	15	3	12 AWG	.5
L515R2*	4700	120	15	1	1	15	3	12 AWG	.5
L520R1*	2310	120	20	1	1	20	3	12 AWG	.5
L530R1*	2610	120	30	1	1	30	3	10 AWG	.5
L615R1*	4560	208	15	1	2	15	3	12 AWG	.5
L615R2*	4550	208	15	1	2	15	3	12 AWG	.5
L620R1*	2320	208	20	1	2	20	3	12 AWG	.5
L630R1*	2620	208	30	1	2	30	3	10 AWG	.5
L715R1	4760	208	15	1	2	15	3	12 AWG	.5
L1420R1*	2410	120/208	20	1	2	20	4	12 AWG	.5
L1430R1*	2710	120/208	30	1	1	30	4	10 AWG	.5
L1520R1*	2420	208	20	3	3	20	4	12 AWG	.5
L1530R1*	2720	208	30	3	3	30	4	10 AWG	.5
L2120R1*	2510	208	20	3	3	20	5	12 AWG	.5
L2130R1*	2810	208	30	3	3	30	5	10 AWG	.5

FIELD WIRE PART NO.	SERVICE		
	Volts	AMP	Phase
F312-11	120	15	1
F312-12	120	20	1
F310-13	120	30	1
F308-14	120	40	1
F306-15	120	50	1
F306-16	120	60	1
F312-21	208	15	1
F412-21	120/208	15	1
F312-22	208	20	1
F412-22	120/208	20	1
F310-23	208	30	1
F410-23	120/208	30	1
F308-24	208	40	1
F408-24	120/208	40	1
F308-25	208	50	1
F408-25	120/208	50	1
F306-26	208	60	1
F406-26	120/208	60	1
F306-27	208	70	1
F406-27	120/208	70	1
F306-28	208	80	1
F404-28	120/208	80	1
F412-31	208	15	3
F512-31	120/208	15	3
F412-32	208	20	3
F512-32	120/208	20	3
F410-33	208	30	3
F510-33	120/208	30	3
F408-34	208	40	3
F508-34	120/208	40	3
F406-35	208	50	3
F506-35	120/208	50	3
F406-36	208	60	3
F506-36	120/208	60	3
F404-37	208	70	3
F504-37	120/208	70	3
F404-38	208	80	3
F504-38	120/208	80	3
F402-39	208	90	3
F502-39	120/208	90	3
F402-310	208	100	3
F502-310	120/208	100	3



# PDU Cables™

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