



Watertight Materials

Part	Material
Inlet	
Housing	Zytel® 101 Nylon*
Locking Ring	Reinforced Thermoplastic Polyester
Mounting Flange	Zytel® 101 Nylon
Mounting Screws	Stainless Steel (300 Series)
Contact Carrier	High-Impact Thermoset
Retainer	High-Impact Thermoset
Ground, Phase Pins	Brass (M-Series - Nickel-plated brass)
Terminal Screws	Stainless Steel (300 Series)
Assembly Screws (2)	Stainless Steel (300 Series)
Gaskets	Solid Neoprene

Listed to standard UL1682/CSA C22.2 No. 182.1-02, Plugs, Receptacles and cable connectors of the Pin and Sleeve Type.

UL Classified to IEC Standards 60309-1 (Plugs, Socket Outlets, and Couplers for Industrial Purposes) for Series I (European) rated voltages and services.

When used with cord, these devices require no further investigation by UL for equipment Classification to IEC 435 or IEC 380.

Connector Body	
Housing	Zytel® ST801 Nylon
Cord Clamps	Reinforced Thermoplastic Polyester
Glands	Solid Neoprene
Cover Arms	Reinforced Thermoplastic Polyester
Arm Springs	Stainless Steel (17-7 type)
Covers	Reinforced Thermoplastic Polyester
Cover Screw	Nickel-plated brass
Rotating Sealing Disc	Polycarbonate
Gaskets	Solid Neoprene
Contact Carrier	High-Impact Thermoset
Retainer	High-Impact Thermoset
Phase, Ground Sleeves	Brass
Sleeve Spring	20A and 30A Stainless Steel (300 Series); others are Beryllium Copper multi-contact inserts with silver plating
Terminal Screws	Stainless Steel (300 Series)
Assembly Screws	Stainless Steel (300 Series)

Plug	
Housing	Zytel® ST801 Nylon
Locking Ring	Reinforced Thermoplastic Polyester
Sealing Gasket	Solid Neoprene
Cord Clamp	Reinforced Thermoplastic Polyester
Gland Cap	Reinforced Thermoplastic Polyester
Gland	Solid Neoprene
Cord Clamp Screws	Stainless Steel (300 Series)
Clamp Nut	Nickel-Plated Brass
Gland Clamp Screws	Stainless Steel (300 Series)
Contact Carrier	High-Impact Thermoset
Retainer	High-Impact Thermoset
Ground, Phase Pins	Brass (M-Series - Nickel-plated brass)
Terminal Screws	Stainless Steel (300 Series)
Assembly Screws	Stainless Steel (300 Series)

Receptacle	
Housing	Zytel® 101 Nylon
Mounting Flange	Zytel® 101 Nylon
Arm Spring	Stainless Steel (17-7 type)
Cover Arm	Reinforced Thermoplastic Polyester
Cover	Reinforced Thermoplastic Polyester
Cover Screw	Nickel-plated brass
Rotating Sealing Disc	Polycarbonate
Gaskets	Solid Neoprene
Mounting Screws	Stainless Steel (300 Series)
Terminal Screws	Stainless Steel (300 Series)
Phase, Ground Sleeves	Brass
Sleeve Spring	20A and 30A Stainless Steel (300 Series); others are Beryllium Copper multi-contact inserts with silver plating

Specifications

Typical Specification	
Manufacturer's Identification	Hubbell HBL520P9W
Description	Plug, Power Supply
Type	3 Pole + Neutral + Earth
Rating	20A, 120/208V AC, 3 Phase WYE
Configuration	UL 1686 C2, IEC 60309-2, Clock Position 9, Watertight
Certification	UL Listed, File E146032 Receptacles and Inlets, E146033 Plugs and Connectors, UL Standard UL1682 and UL 1686C2, CSA Certified File LR280C for Plugs, Connectors Inlets and LR285C for Receptacle CSA Standard C22.2 No. 182.1, UL Classified to IEC 60309-1 IEC 60309-2

Note: *All devices on page G-11 have Valox® housings.

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Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



Performance

Electrical

Dielectric Withstand Voltage	3000V AC.
Max. Working Voltage	600V RMS (i.e., minimum creepage distance 10 millimeters, minimum clearance 8 millimeters, per IEC 60309-1 for devices rated over 500V).
Current Interrupting	Certified for current interrupting at full rated current (Except DC rated devices).
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Endurance	5,000 connect and disconnect cycles with load for 16A and 20A, 1,000 cycles with load and 1,000 cycles without load for 30A, 32A, 60A and 63A, and 250 cycles with load and 250 cycles without load for 100A and 125A.

Mechanical

Impact Resistance	Per CSA C22.2 No. 182.1 / UL1682.
Cord Grip Cable Retention	Per CSA C22.2 No. 182.1 / UL1682.
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49 and the harmonized <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with North American and IEC conventions.
Product Identification	Identification and ratings are a permanent part of the device housing.

Environmental

Moisture Resistance	Watertight per IEC 60309-1.
Ingress Protection	IP67 Suitability.
Flammability	HB or better per UL 94 or CSA C22.2 No. 0.17.
Operating Temperatures	Maximum Continuous 75°C; Minimum - 40°C without impact.

Materials

Housings	Nylon.
All Other Materials	Resistant to corrosion and chemical attack.

Note: Specification sheets for all other Pin and Sleeve catalog numbers are available upon request.

Horsepower Ratings for IEC Pin and Sleeve

AC Voltage Rating	Horsepower	Catalog Number			
3Ø 250	2	HBL420R9W	HBL420P9W	HBL420C9W	HBL420B9W
3Ø 480	5	HBL420R7W	HBL420P7W	HBL420C7W	HBL420B7W
3Ø 600	7.5	HBL420R5W	HBL420P5W	HBL420C5W	HBL420B5W
3ØY 120/208	.5	HBL520R9W	HBL520P9W	HBL520C9W	HBL520B9W
3ØY 277/480	5	HBL520R7W	HBL520P7W	HBL520C7W	HBL520B7W
3ØY 347/600	7.5	HBL520R5W	HBL520P5W	HBL520C5W	HBL520B5W
3Ø 250	3	HBL430R9W	HBL430P9W	HBL430C9W	HBL430B9W
3Ø 480	7.5	HBL430R7W	HBL430P7W	HBL430C7W	HBL430B7W
3Ø 600	10	HBL430R5W	HBL430P5W	HBL430C5W	HBL430B5W
3ØY 120/208	2	HBL530R9W	HBL530P9W	HBL530C9W	HBL530B9W
3ØY 277/480	7.5	HBL530R7W	HBL530P7W	HBL530C7W	HBL530B7W
3ØY 347/600	10	HBL530R5W	HBL530P5W	HBL530C5W	HBL530B5W
3Ø 250	5	HBL460R9W	HBL460P9W	HBL460C9W	HBL460B9W
3Ø 480	10	HBL460R7W	HBL460P7W	HBL460C7W	HBL460B7W
3Ø 600	15	HBL460R5W	HBL460P5W	HBL460C5W	HBL460B5W
3ØY 120/208	3	HBL560R9W	HBL560P9W	HBL560C9W	HBL560B9W
3ØY 277/480	10	HBL560R7W	HBL560P7W	HBL560C7W	HBL560B7W
3ØY 347/600	15	HBL560R5W	HBL560P5W	HBL560C5W	HBL560B5W
3Ø 250	10	HBL4100R9W	HBL4100P9W	HBL4100C9W	HBL4100B9W
3Ø 480	30	HBL4100R7W	HBL4100P7W	HBL4100C7W	HBL4100B7W
3Ø 600	30	HBL4100R5W	HBL4100P5W	HBL4100C5W	HBL4100B5W
3ØY 120/208	10	HBL5100R9W	HBL5100P9W	HBL5100C9W	HBL5100B9W
3ØY 277/480	30	HBL5100R7W	HBL5100P7W	HBL5100C7W	HBL5100B7W
3ØY 347/600	30	HBL5100R5W	HBL5100P5W	HBL5100C5W	HBL5100B5W

Pin and Sleeve Devices/Mechanical Interlocks



IP67
SUITABILITY

Enclosure Type 4X, 12

Rating					Unfused Circuit-Lock® Devices		Reverse Service	
Amps	Poles and Wires	Configuration		AC Voltage	Mechanical Interlock		Mechanical Interlock	
		Recep.	Plug		Mating Plug	Mating Plug		
20	3P 4W			120/240V		HBL420P12W	—	—
	3P 4W			3Ø 240V		HBL420P9W	—	—
	3P 4W			3Ø 480V		HBL420P7W	—	—
	3P 4W			3Ø 600V		HBL420P5W	—	—
30	2P 3W			120V		HBL330P4W	—	—
	2P 3W			240V		HBL330P6W	—	—
	2P 3W			480V		HBL330P7W	—	—
	3P 4W			120/240V		HBL430P12W	—	—
	3P 4W			3Ø 240V		HBL430P9W	HBL430MI9WR	HBL430P9WR
	3P 4W			3Ø 480V		HBL430P7W	HBL430MI7WR	HBL430P7WR
	3P 4W			3Ø 600V		HBL430P5W	HBL430MI5WR	HBL430P5WR
	4P 5W			3ØY 120/208V		HBL530P9W	—	—
	4P 5W			3ØY 277/480V		HBL530P7W	—	—
	4P 5W			3ØY 347/600V		HBL530P5W	—	—
32	3P 4W			380V 50HZ-440V 60Hz		HBL432P3W	—	—
60	2P 3W			120V		HBL360P4W	—	—
	2P 3W			240V		HBL360P6W	—	—
	2P 3W			480V		HBL360P7W	—	—
	3P 4W			120/240V		HBL460P12W	HBL460MI12WR	HBL460P12WR
	3P 4W			3Ø 240V		HBL460P9W	HBL460MI9WR	HBL460P9WR
	3P 4W			3Ø 480V		HBL460P7W	HBL460MI7WR	HBL460P7WR
	3P 4W			3Ø 600V		HBL460P5W	HBL460MI5WR	HBL460P5WR
	4P 5W			3ØY 120/208V		HBL560P9W	—	—
	4P 5W			3ØY 277/480V		HBL560P7W	—	—
	4P 5W			3ØY 347/600V		HBL560P5W	—	—
100	2P 3W			240V		HBL3100P6W	—	—
	3P 4W			120/240V		HBL4100P12W	HBL4100MI12WR	HBL4100P12WR
	3P 4W			3Ø 240V		HBL4100P9W	HBL4100MI9WR	HBL4100P9WR
	3P 4W			3Ø 480V		HBL4100P7W	HBL4100MI7WR	HBL4100P7WR
	3P 4W			3Ø 600V		HBL4100P5W	HBL4100MI5WR	HBL4100P5WR
	4P 5W			3ØY 120/208V		HBL5100P9W	—	—

Note: 20, 30 and 32A – 1 inch NPT hub supplied; 60 and 100A – 1¼ inch hub supplied.