



HBL460C12W -- Pin and Sleeve Products



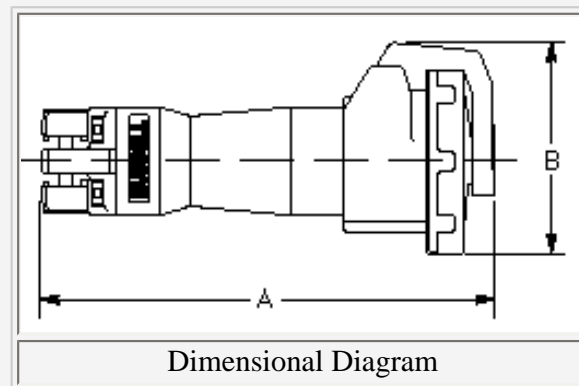
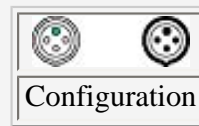
Watertight IEC Pin and Sleeve Connector, 3P4W, 60A 125/250V

Product Specifications

Product Type	<div> IEC Devices</div>
IEC Product Type	Watertight
Service Style	Standard
Device	Connector
Amperage	60A
Voltage	125/250V
Poles and Wires	3 Pole, 4 Wire
Terminal Accommodations	#8 To #2 AWG copper wire only
Cord clamp range	.500" To 1.450"
Color	<div> Orange</div>
Replacement Interior Number	IN460CF
Housing	Zytel® 801 Nylon

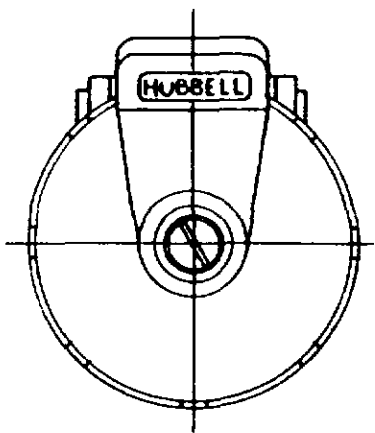
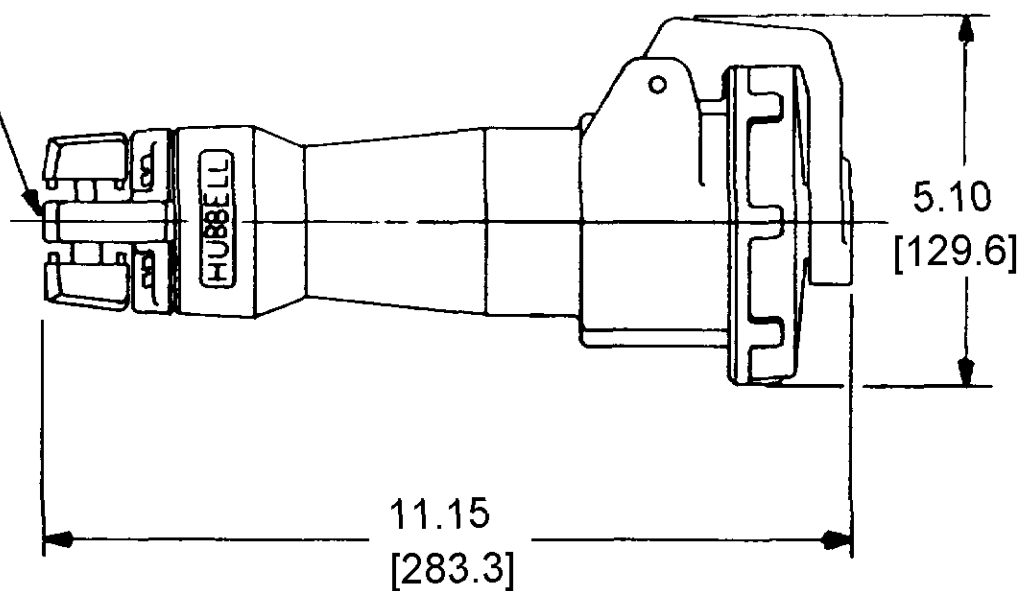
<b>Contact Carrier</b>	High-Impact Thermoset
<b>Retainer</b>	High-Impact Thermoset
<b>Terminal Screws</b>	Stainless Steel (300 series)
<b>Assembly Screws</b>	Stainless Steel (300 series)
<b>Gaskets</b>	Solid Neoprene
<b>Cord Clamps</b>	Rynite SST35
<b>Grommet/Glands</b>	Solid Neoprene
<b>Cover Arm</b>	Rynite SST35
<b>Arm Spring</b>	Stainless Steel (17-1 Type)
<b>Cord Clamp Screws</b>	Stainless Steel (300 Series)
<b>Clamp Nut</b>	Nickel Plated Brass
<b>Cover</b>	Rynite SST35
<b>Cover Screw/Rivet</b>	Nickel Plated Brass
<b>Rotating Sealing Disc</b>	Polycarbonate
<b>Ground/Phase Sleeve</b>	Brass
<b>Pin/Sleeve Spring</b>	Beryllium Copper multi-contact insert with silver plating.
<b>Certification</b>	UL Listed, File E146032 Receptacles and Inlets, E146033 Plugs and Connectors, UL Standard UL1682 & UL1686C2, CSA Certified File LR280C for Plugs, Connectors and Inlets, LR285C for Receptacles, CSA Standard C22.2 No. 182.1, UL Classified to IEC60309-1, IEC
<b>Dielectric Withstand Voltage</b>	Withstands 3,000V AC
<b>Max Working Voltage</b>	600V RMS (i.e.minimum creepage distance 10 mm minimum)
<b>Current Interrupting</b>	Certified for current interrupting at full rated current.
<b>Temperature Rise</b>	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%.
<b>Endurance</b>	5,000 connect and disconnect cycles with load for 16A and 20A, 1,000 cycles with load and 1,000 cycles w/o load for 30A, 32A, 60A and 63A, and 250 cycles with load and 250 cycles w/o load for 100A and 125A.
<b>Impact Resistance</b>	Per CSA C22.2 No. 182.1 / UL1682.
<b>Cord Grip Retention</b>	Per CSA C22.2 No. 182.1 / UL1682.
<b>Cord Accommodation</b>	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 European Standards.
<b>Terminal Identification</b>	Terminals identified in accordance with North American and IEC conventions.
<b>Product Identification</b>	Identification and ratings are a permanent part of the device housing.
<b>Moisture Resistance</b>	Watertight per IEC 60309-1

<b>Ingress Protection</b>	IP 67 Suitability
<b>Flammability</b>	HB or Better per UL 94 or CSA C22.2 No. 0.17
<b>Operating Temperatures</b>	Maximum Continuous: 75° C; Minimum Continuous: -40° C w/o impact.
<b>Certifications</b>	UL Listed, UL Standard 498 CSA Certified to CSA Spec. C22.2 No. 182.2 UL Classified to IEC 309-1 and IEC 309-2.
<b>Device Description</b>	Every Hubbell non-metallic Pin and Sleeve product is designed to meet the International Standard IEC 60309-1 and IEC 60309-2. This device standard calls out singly rated, non-interchangeable configuration for every voltage and type of service.
<b>Catalog Page</b>	<a href="#">Click here for catalog page E5</a>
<b>M Drawings</b>	<a href="#">Click here for M-Drawing</a>
<b>Brochures</b>	<a href="#">Click here for product brochure</a>
<b>Catalog Section</b>	<a href="#">Click here for Section-E</a>
<b>UPC Number</b>	78358540478
<b>Weight in LBs</b>	2.75



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CABLE DIA.  
.500 MIN  
[12.70]  
1.450 MAX  
[36.83]



NOTES: (UNLESS OTHERWISE SPECIFIED)

1) DIMENSION FORMAT IS: INCHES [mm]

2) DIMENSIONS SHOWN ON THIS DRAWING ARE NOMINAL VALUES FOR GENERAL USE ONLY. ACTUAL PART TOLERANCES MUST BE OBTAINED FROM HUBBELL ENGINEERING.

LIST OF PARTS		
DESCRIPTION	MATERIAL	FINISH
1. HOUSING	SEE TABLE	
2. INTERIOR	THERMOSET	
3. SLEEVES	BRASS	
4. INSERT SPRS.	BERR COPPER	SILVER
5. TERM. SCRS.	STAIN. STEEL	
6. COVER	POLYESTER	
7. COV. SCR.	BRASS	NICKEL
8. COV. SPR.	STAIN. STEEL	
9. GASKET	RUBBER	
10. DISC	POLYCARBONATE	
11. ARM	POLYESTER	
12. HINGE PIN	STAIN. STEEL	
13. HINGE SPR.	STAIN. STEEL	
14. GLAND CAP	POLYESTER	
15. GLANDS	RUBBER	
16. CLAMPS	POLYESTER	
17. CLAMP NUTS	BRASS	NICKEL
18. ASS'Y SCRS.	STAIN. STEEL	

CAT. NO.	CONFIGURATION	RATING	HOUSING		CAT. NO.	CONFIGURATION	RATING	HOUSING	
			COLOR	MAT'L				COLOR	MAT'L
					HBL460C7W		60A 3Ø 480 VAC	RED	NYLON
					HBL460C9W		60A 3Ø 250 VAC	BLUE	NYLON
					HBL460C9V05		60A 3Ø 250 VAC	BLUE	VALOX
HBL460C5W		60A 3Ø 600 VAC	BLACK	NYLON					
HBL463C6W		63 AMP 380-415 VAC	RED	NYLON	HBL460C12W		60 AMP 125/250 VAC	ORANGE	NYLON

REPAIRABLE <input type="checkbox"/> NON-REPAIRABLE <input checked="" type="checkbox"/>			
3	ADDED HOUSING COLUMN. "63 AMP" WAS "60 AMP" "380-415 VAC" WAS "380 VAC" "SEE TABLE" WAS "NYLON" PER DCN8695 JMN	TCM	10-31-01

2	CHANGED FRACTIONAL DIMS. TO DECIMAL DIMS. & REWROTE LIST OF PARTS	MM	7-18-91 AJL
1	CAT. NO. 463C6W WAS 460C6W. RATING REVISED.		10-25-82 ASM
SYM	REVISIONS	APP	DATE

CODE 74545					TITLE 60 & 63A. 3 POLE 4 WIRE PIN & SLEEVE CONNECTORS				
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TOLERANCES UNLESS OTHERWISE SPECIFIED		HARVEY HUBBELL, INC.	
DECIMALS ± .03		BRIDGEPORT, CONN.	
ANGLES ± 2°		DR. BY MJK	APP. BY
		TR. BY	SCALE
		CHKD. BY	DATE 4-29-80

DIMENSION SHEET FOR CAT. NO. SEE TABLE

B M-6076

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## Pin and Sleeve

## Watertight Devices Ordering Information

60 and 100 Ampere – North American Ratings

63 and 125 Ampere – International Ratings

UL SP	Poles and Wires	Configuration Recep./ Conn.	Plug/ Inlet	IP67 Suitability	Watertight Devices				Back Boxes		Replacement Interior Kits	
					Receptacle	Plug	Connector	Inlet	Non-Metallic	Metallic	Conn. Recep.	Plugs Inlets
60	2P 3W			125	HBL360R4W	HBL360P4W	HBL360C4W	HBL360B4W	BB60N	BB601W BB602W	IN360AF	IN360AM
	2P 3W			250	HBL360R6W	HBL360P6W	HBL360C6W	HBL360B6W	BB60N	BB601W BB602W	IN360BF	IN360BM†
	2P 3W			480	HBL360R7W	HBL360P7W	HBL360C7W	HBL360B7W	BB60N	BB601W BB602W	IN360BF	IN360BM†
	3P 4W			125/250	HBL460R12W	HBL460P12W	HBL460C12W	HBL460B12W	BB60N	BB601W BB602W	IN460CF	IN460CM
	3P 4W			3Ø250	HBL460R9W	HBL460P9W	HBL460C9W	HBL460B9W	BB60N	BB601W BB602W	IN460DF	IN460DM
	3P 4W			3Ø480	HBL460R7W	HBL460P7W	HBL460C7W	HBL460B7W	BB60N	BB601W BB602W	IN460DF	IN460DM
	3P 4W			3Ø600	HBL460R5W	HBL460P5W	HBL460C5W	HBL460B5W	BB60N	BB601W BB602W	IN460DF	IN460DM
	4P 5W			3ØY120/208	HBL560R9W	HBL560P9W	HBL560C9W	HBL560B9W	BB60N	BB601W BB602W	IN560EF	IN560EM†
	4P 5W			3ØY277/480	HBL560R7W	HBL560P7W	HBL560C7W	HBL560B7W	BB60N	BB601W BB602W	IN560EF	IN560EM†
	4P 5W			3ØY347/600	HBL560R5W	HBL560P5W	HBL560C5W	HBL560B5W	BB60N	BB601W BB602W	IN560EF	IN560EM†
	2P 3W			220-240	HBL363R6W	HBL363P6W	HBL363C6W	HBL363B6W	BB60N	BB601W BB602W	IN360BFS	IN360BMS†
	3P 4W			380-415	HBL463R6W	HBL463P6W	HBL463C6W	HBL463B6W	BB60N	BB601W BB602W	IN460DFS	IN460DMS
100	4P 5W			220/380 240/415	HBL563R6W	HBL563P6W	HBL563C6W	HBL563B6W	BB60N	BB601W BB602W	IN560EFS†	IN560EMS
	2P 3W			125	HBL3100R4W	HBL3100P4W	HBL3100C4W	HBL3100B4W	BB100N	BB1001W BB1002W	IN3100AF	IN3100AM
	2P 3W			250	HBL3100R6W	HBL3100P6W	HBL3100C6W	HBL3100B6W	BB100N	BB1001W BB1002W	IN3100BF	IN3100BM†
	2P 3W			480	HBL3100R7W	HBL3100P7W	HBL3100C7W	HBL3100B7W	BB100N	BB1001W BB1002W	IN3100BF	IN3100BM†
	3P 4W			125/250	HBL4100R12W	HBL4100P12W	HBL4100C12W	HBL4100B12W	BB100N	BB1001W BB1002W	IN4100CF†	IN4100CM
	3P 4W			3Ø250	HBL4100R9W	HBL4100P9W	HBL4100C9W	HBL4100B9W	BB100N	BB1001W BB1002W	IN4100DF	IN4100DM
	3P 4W			3Ø480	HBL4100R7W	HBL4100P7W	HBL4100C7W	HBL4100B7W	BB100N	BB1001W BB1002W	IN4100DF	IN4100DM
	3P 4W			3Ø600	HBL4100R5W	HBL4100P5W	HBL4100C5W	HBL4100B5W	BB100N	BB1001W BB1002W	IN4100DF	IN4100DM
	4P 5W			3ØY120/208	HBL5100R9W	HBL5100P9W	HBL5100C9W	HBL5100B9W	BB100N	BB1001W BB1002W	IN5100EF	IN5100EM
	4P 5W			3ØY277/480	HBL5100R7W	HBL5100P7W	HBL5100C7W	HBL5100B7W	BB100N	BB1001W BB1002W	IN5100EF	IN5100EM
	4P 5W			3ØY347/600	HBL5100R5W	HBL5100P5W	HBL5100C5W	HBL5100B5W	BB100N	BB1001W BB1002W	IN5100EF	IN5100EM
	2P 3W			220-240	HBL3125R6W	HBL3125P6W	HBL3125C6W	HBL3125B6W	BB100N	BB1001W BB1002W	IN3100BFS †	IN3100BMS †
125	3P 4W			380-415	HBL4125R6W	HBL4125P6W	HBL4125C6W	HBL4125B6W	BB100N	BB1001W BB1002W	IN4100DFS	IN4100DMS
	4P 5W			220/380 240/415	HBL5125R6W	HBL5125P6W	HBL5125C6W	HBL5125B6W	BB100N	BB1001W BB1002W	IN5100EFS	IN5100EMS

Notes: All 63A and all 125A devices have pilot pins or contacts.

See page E-6, E-7 for accessories. See page E-8, E-9 for product dimensions. See page E-10, E-11 for product specifications. Closure caps purchased separately, see page E-7.

† Consult factory.