

BRYANT®
TECH·SPEC®

Wiring Devices – Locking Plugs / Connectors / Receptacles



Features

- Internal Triple-Gripper® cord clamp with unique "radius teeth" design automatically centers and secures the cord
- Tough impact- and chemical-resistant nylon housing
- Double-wall construction
- Combination Phillips/slotted captive terminal screws
- Transparent terminal cover with clear window and teardrop wiring pockets to ease insertion of stranded wire and to make solid connections
- Copper wire only
- Captive, quick-thread assembly screws backed out, ready for assembly
- Integral thermoplastic elastomer dust seal surrounds cord to help prevent moisture and contaminants from entering the wiring chamber
- Nickel-plated neutral blade for easy identification
- Amperage, voltage and NEMA configuration imprinted on face for easy identification

Note: See Table III at the end of the Wiring Devices section for Horsepower Ratings

Agency Approvals

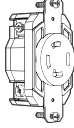
- UL File E2258 [Receptacle], E1381 [Plug, Connector]
- CSA Certified 16215

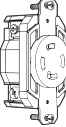


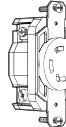
15 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
2-Pole 3-Wire	L5-15	125V	 L5-15R L5-15P	<u>4721NP</u>		\$13.00:	<u>4732NC</u>		\$24.00	<u>4710</u>		\$14.50
	L6-15	250V	 L6-15R L6-15P	<u>70615NP</u>		\$14.00	<u>70615NC</u>		\$25.00	<u>70615FR</u>		\$19.00
	L7-15	277V AC	 L7-15R L7-15P	<u>4770NP</u>		\$15.00	<u>4779NC</u>		\$26.00	<u>4760</u>		\$16.00

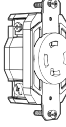
20 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
2-Pole 3-Wire	L5-20	125V	 L5-20R L5-20P	<u>70520NP</u>		\$16.00	<u>70520NC</u>		\$26.00	<u>70520FR</u>		\$21.00
	L6-20	250V	 L6-20R L6-20P	<u>70620NP</u>		\$16.00	<u>70620NC</u>		\$26.00	<u>70620FR</u>		\$21.00
	L7-20	277V AC	 L7-20R L7-20P	<u>70720NP</u>		\$14.00	<u>70720NC</u>		\$23.50	<u>70720FR</u>		\$22.00
	L8-20	480V AC	 L8-20R L8-20P	<u>70820NP</u>		\$16.00	<u>70820NC</u>		\$28.00	<u>70820FR</u>		\$21.50
	L9-20	600V AC	 L9-20R L9-20P	<u>70920NP</u>		\$16.50	<u>70920NC</u>		\$25.00	<u>70920FR</u>		\$25.50

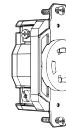
Wiring Devices – Locking Plugs / Connectors / Receptacles

30 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
2-Pole 3-Wire	L5-30	125V	 	70530NP		\$26.00	70530NC		\$49.00	70530FR		\$26.00
	L6-30	250V	 	70630NP		\$26.00	70630NC		\$53.00	70630FR		\$28.00
	L7-30	277V AC	 	70730NP		\$23.50	70730NC		\$45.00	70730FR		\$28.00
	L8-30	480V AC	 	70830NP		\$24.50	70830NC		\$46.00	70830FR		\$29.00
	L9-30	600V AC	 	70930NP		\$23.50	70930NC		\$46.00	70930FR		\$29.00

20 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
3-Pole 4-Wire	L14-20	125V/ 250V AC	 	71420NP		\$26.00	71420NC		\$35.00	71420FR		\$29.00
	L15-20	3ø 250V AC	 	71520NP		\$28.00	71520NC		\$35.00	71520FR		\$29.00
	L16-20	3ø 480V AC	 	71620NP		\$27.00	71620NC		\$35.00	71620FR		\$29.00

30 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
3-Pole 4-Wire	L14-30	125V/ 250V AC	 	71430NP		\$33.00	71430NC		\$69.00	71430FR		\$40.50
	L15-30	3ø 250V AC	 	71530NP		\$33.00	71530NC		\$70.00	71530FR		\$41.00
	L16-30	3ø 480V AC	 	71630NP		\$33.00	71630NC		\$74.00	71630FR		\$46.00
	L17-30	3ø 600V AC	 	71730NP		\$35.00	71730NC		\$66.00	71730FR		\$40.50

20 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
4-Pole 5-Wire	L21-20	3øY120V/ 208V AC	 	72120NP		\$35.00	72120NC		\$57.00	72120FR		\$36.00
	L22-20	3øY277V/ 480V AC	 	72220NP		\$32.00	72220NC		\$58.00	72220FR		\$36.50

30 Amp Locking Devices												
Poles	NEMA #	Voltage	Configuration	Plug Part No.	Style	Price	Connector Part No.	Style	Price	Receptacle Part No.	Style	Price
4-Pole 5-Wire	L21-30	3øY 120V/ 208V AC	 	72130NP		\$39.00	72130NC		\$70.00	72130FR		\$50.00
	L22-30	3øY 277V/ 480V AC	 	72230NP		\$39.50	72230NC		\$74.00	72230FR		\$51.00

Wiring Devices – Locking Plugs / Connectors / Receptacles Specifications and Drawings

15 Amp Locking Devices General Specifications					
Part Type	Maximum Working Voltage	Operating/Storage Temperature	Terminal Accommodation	Cord Grip Range inches [mm]	Torque Specifications
Plug	600VAC/250VDC	Maximum of 140°F [60°C] continuous, minimum of -40°F [-40°C] without impact.	Fork slot = 0.390 x 0.060 terminal screw #8 #18 - #8 AWG Flexible Cord [copper wire]	0.300-0.655 [7.62-16.637]	Terminal screw 12-14 lb-in [1.4-1.6 N-m] Assembly screw 8 lb-in [0.9 N-m]
Connector		Maximum of 140°F [60°C] continuous, minimum of -40°F [-40°C] without impact.	Fork slot = 0.390 x 0.060 terminal screw #8 #18 - #8 AWG Flexible Cord [copper wire]	.300-0.655 [7.62-16.637]	Terminal screw 12-14 lb-in [1.4-1.6 N-m] Assembly screw 8 lb-in [0.9 N-m]
Receptacle		-40°F to 185°F [-40°C to 85°C] continuous without impact	Fork slot = 0.400 x 0.060 terminal screw #10 #14 - #8 AWG [solid or stranded copper wire]	N/A	Terminal screw 12-14 lb-in [1.4-1.6 N-m] Assembly screw 8 lb-in [0.9 N-m]

20/30 Amp Locking Devices General Specifications					
Part Type	Maximum Working Voltage	Operating/Storage Temperature	Terminal Accommodation	Cord Grip Range inches [mm]	Torque Specifications
Plug	600VAC/250VDC	Maximum of 140°F [60°C] continuous, minimum of -40°F [-40°C] without impact.	Fork slot = 0.400 x 0.060 terminal screw #10 #18 - #8 AWG Flexible Cord [copper wire]	0.300-0.950 [7.62-24.13]	Terminal screw 12-14 lb-in [1.4-1.6 N-m] Assembly screw 10 lb-in [1.2 N-m]
Connector		Maximum of 140°F [60°C] continuous, minimum of -40°F [-40°C] without impact.	Fork slot = 0.400 x 0.060 terminal screw #10 #18 - #8 AWG Flexible Cord [copper wire]	0.300-0.950 [7.62-24.13]	Terminal screw 12-14 lb-in [1.4-1.6 N-m] Assembly screw 10 lb-in [1.2 N-m]
Receptacle		-40 to 185°F [-40 to 85°C] continuous without impact	Fork slot = 0.400 x 0.060 terminal screw #10 #14 - #8 AWG [solid or stranded copper wire]	N/A	Terminal screw 12-14 lb-in [1.4-1.6 N-m] Assembly screw 8 lb-in [0.9 N-m]

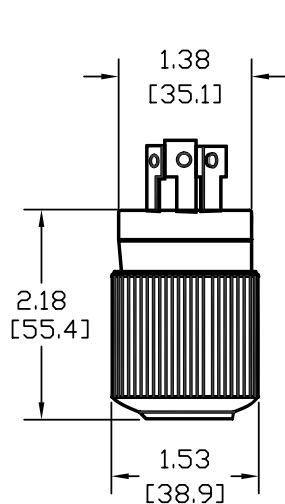
Note: 20/30 Amp locking plugs/connector terminal screws are tri-drive.

Wiring Devices – Locking Plugs / Connectors / Receptacles Drawings

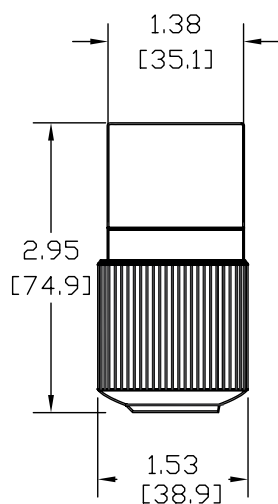
Dimensions

inches [mm]

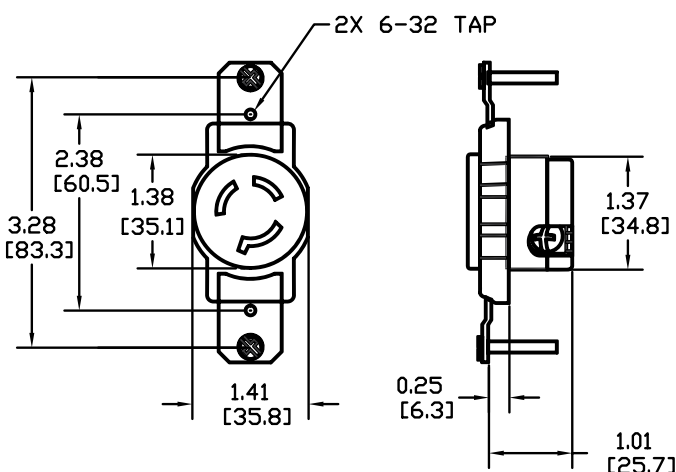
15 Amp



Plug

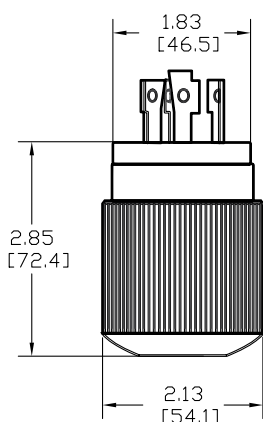


Connector

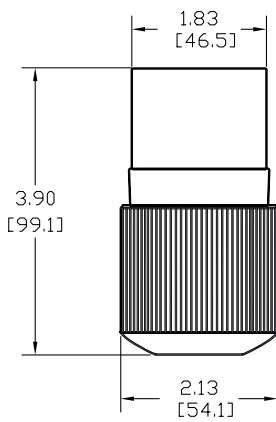


Receptacle

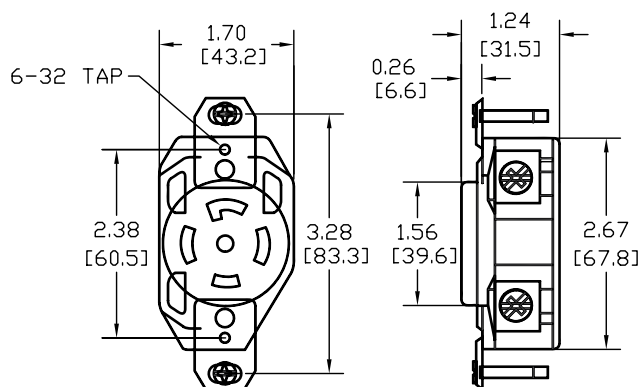
20/30 Amp



Plug



Connector



Receptacle

Note: Dimensional drawings provided for reference only, not all items are shown.

Wiring Devices – Technical Information

Reference material only. Please see Wiring Section in the catalog for product part number.

Mechanical And Electrical Properties Of Materials							
Properties		6/6 Nylon	6 Nylon	Polycarbonate	PC/PET	Phenolic	Urea
Tensile Strength [PSI]		11,000	6,000+*	9,000	6,000	6,500-10,000	5,500-13,000
Elongation [%]		300+*	300*	130	120	0.4 - 0.8	0.5 - 1.0
Flex. Mod. [Stiffness][PSI]		175,000*	140,000*	340,000	325,000	1,000,000	1,500,000
Izod [Notched] ft.-lb./in.		2.1 lb-in [0.24 Nm]*	3.0 lb-in [0.34 Nm]*	15.0 lb-in [1.7 Nm]	12.0 lb-in [1.36Nm]	0.3 to 1.9 lb-in [.034 to 0.21 Nm]	0.25 to 0.4 lb-in [0.03 to 0.05 Nm]
Hardness Rockwell		59M* 108R*	- 119R	70M 118R	- 115R	105-120M -	110-120M -
Heat Deflection Temperature	66 PSI	464°F [240°C]	370°F [187.7°C]	-	265°F [129.4°C]	-	-
	264 PSI	194°F [90°C]	185°F [85°C]	270°F [132°C]	260°F [126.6°C]	400°F [204.4°C]	260 to 290°F [126.6 to 143.3°C]
UL Thermal Index	Electrical	257°F [125°C]	257°F [125°C]	257°F [125°C]	221°F [105°C]	302°F [150°C]	212°F [100°C]
	Mechanical w/ Impact	167°F [75°C]	167°F [75°C]	239°F [115°C]			
	Mechanical w/o Impact	185°F [85°C]	185°F [85°C]	257°F [125°C]			
Flame Class UL 94		V-2	V-2	V-2	V-0	HB-V0	HB-V0
Dielectric V/mil		600	400	380	307	200-400	300-400
Specific Gravity		1.14	1.13	1.2	1.33	1.4	1.5
UL Comparative Tracking Index [Volts]		600+	600+	250+	230	175+	600+

*Conditioned to 50% relative humidity

Chemical Resistance Of Materials				
Chemical	Nylon	Phenolic	Urea	Polycarbonate
Acids	C	B	B	A
Alcohol	A	A	A	B
Caustic Bases	A	B	B	C
Gasoline	A	A	C	A
Grease	A	A	A	B
Kerosene	A	A	A	A
Oil	A	A	A	B
Solvents	A	A	A	C
Water	A	A	A	A

Note: A - Completely resistant. Good to excellent, general use.

B - Resistant. Fair to good, limited service.

C - Slow attack. Not recommended for use.

Wiring Devices – Technical Information

Table III - Horsepower Ratings			
NEMA Configuration	AC HP Rating**	Nema Configuration	AC HP Rating**
1-15	0.5	L1-15	0.5
2-15	1.5	L2-20	2
2-20	2	L5-15	0.5
2-30	2	L5-20	1
5-15	0.5	L5-30	2
5-20	1	L6-15	1.5
5-30	2	L6-20	2
5-50	2	L6-30	2
6-15	1.5	L7-15	2
6-20	2	L7-20	2
6-30	2	L7-30	3
6-50	3	L8-20	3
7-15	2	L8-30	5
7-20	2	L10-20	2 L-L/1 L-N
7-30	3	L10-30	2 L-L/2 L-N
7-50	5	L11-15	2
10-20	2 L-L/1 L-N	L11-20	3
10-30	2 L-L/2 L-N	L11-30	3
10-50	3 L-L/2 L-N	L12-20	5
11-15	2	L12-30	10
11-20	3	L14-20	2 L-L/1 L-N
11-30	3	L14-30	2 L-L/2 L-N
11-50	7.5	L15-20	3
14-15	1.5 L-L/0.5 L-N	L15-30	3
14-20	2 L-L/1 L-N	L16-20	5
14-30	2 L-L/2 L-N	L16-30	10
14-50	3 L-L/2 L-N	L18-20	2
14-60	3 L-L/2 L-N	L18-30	3
15-15	2	L19-20	5
15-20	3	L19-30	10
15-30	3	L21-20	2
15-50	7.5	L21-30	3
15-60	10	L22-20	5
18-15	2	L22-30	10
18-20	2		
18-30	3		
18-50	7.5		
18-60	7.5		

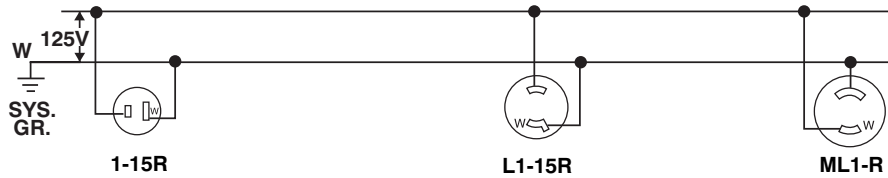
**The phase-to-phase horsepower ratings are noted by "L-L". The phase-to-neutral ratings are identified by "L-N"

Wiring Devices – NEMA Wiring Diagrams

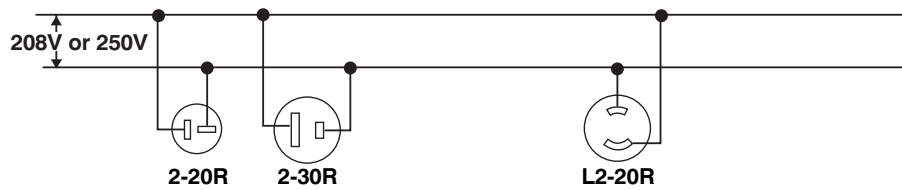
Reference material only. Please see Wiring Section in the catalog for product part number.

2-Pole 2-Wire

125V

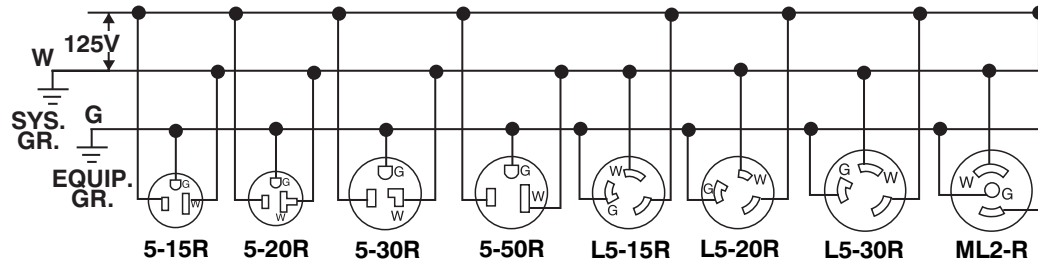


208V or 250V

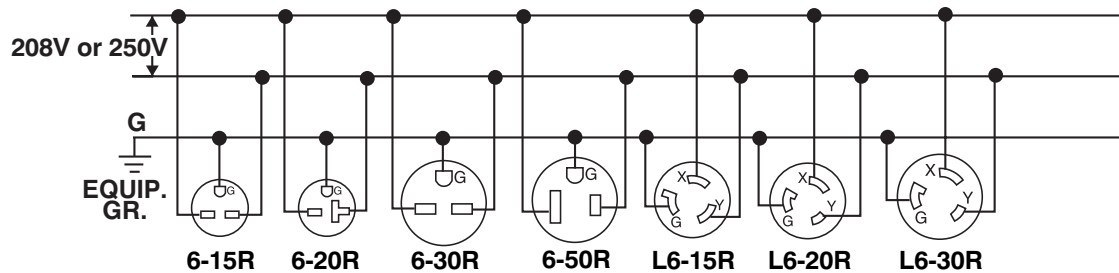


2-Pole 3-Wire Grounding

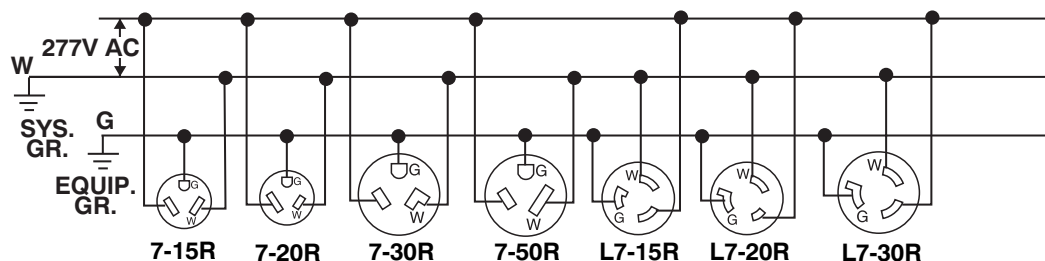
125V



208V or 250V

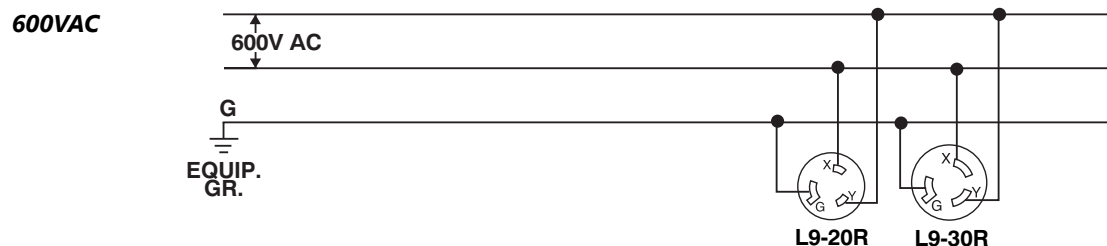
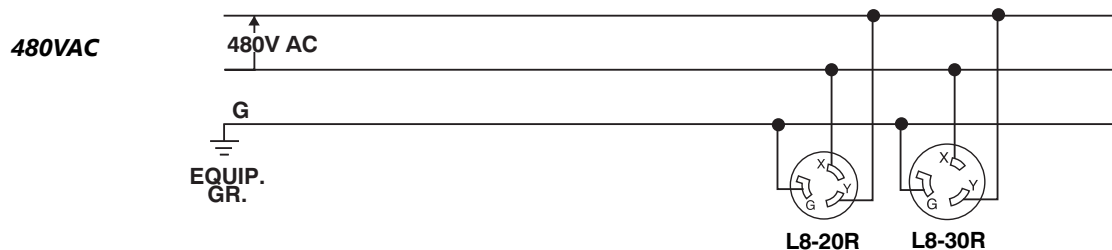


277 VAC

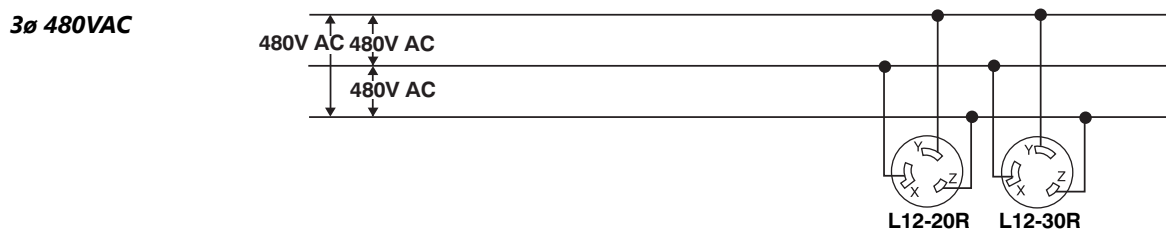
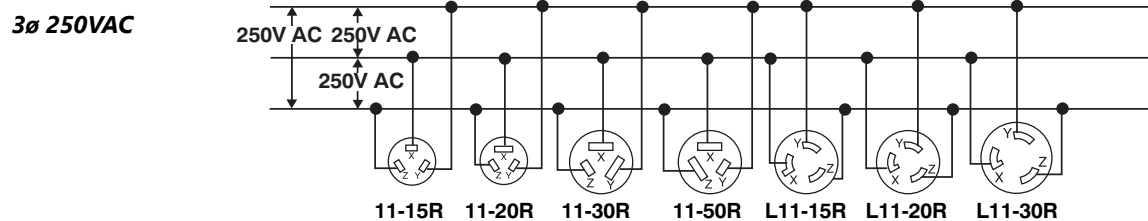
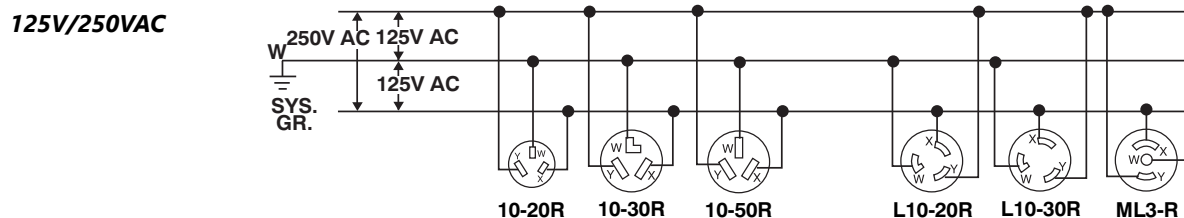


Wiring Devices – NEMA Wiring Diagrams

2-Pole 3-Wire Grounding

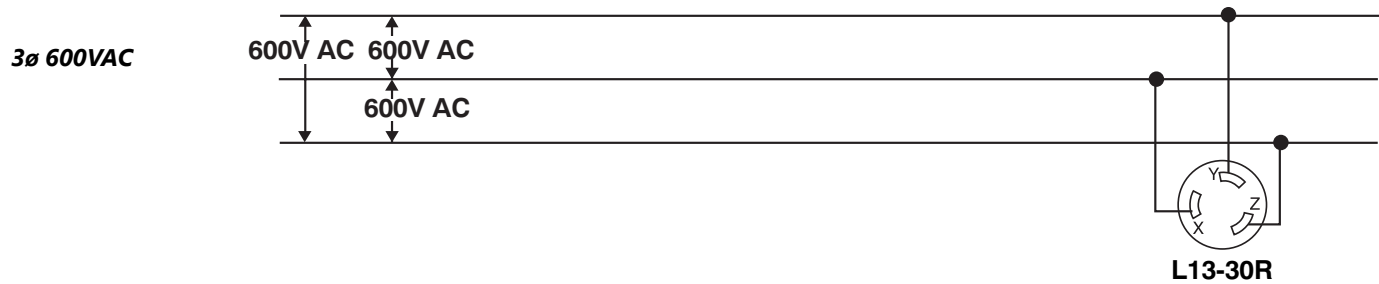


3-Pole 3-Wire

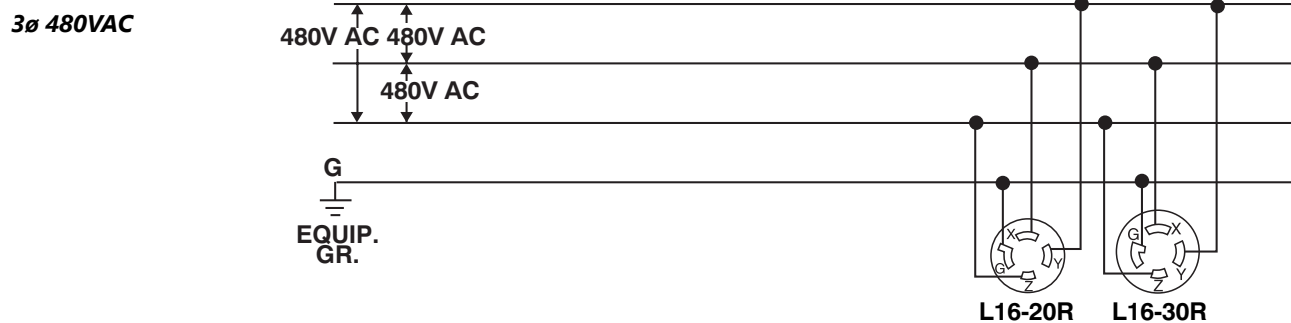
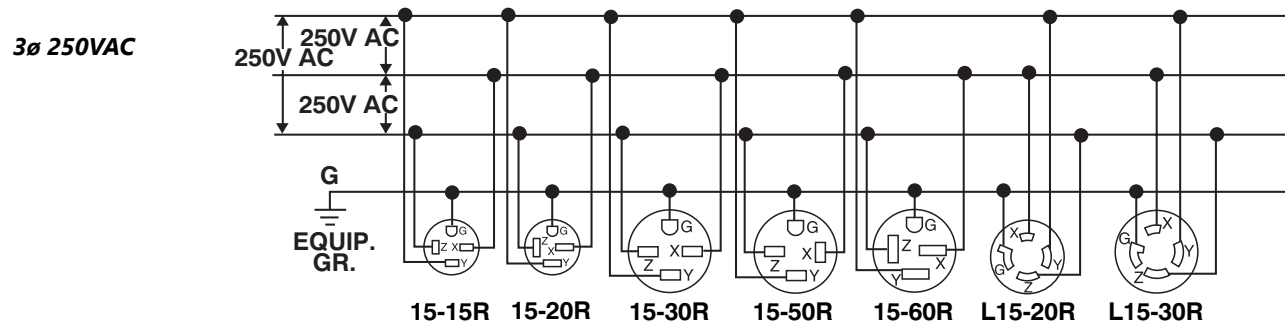
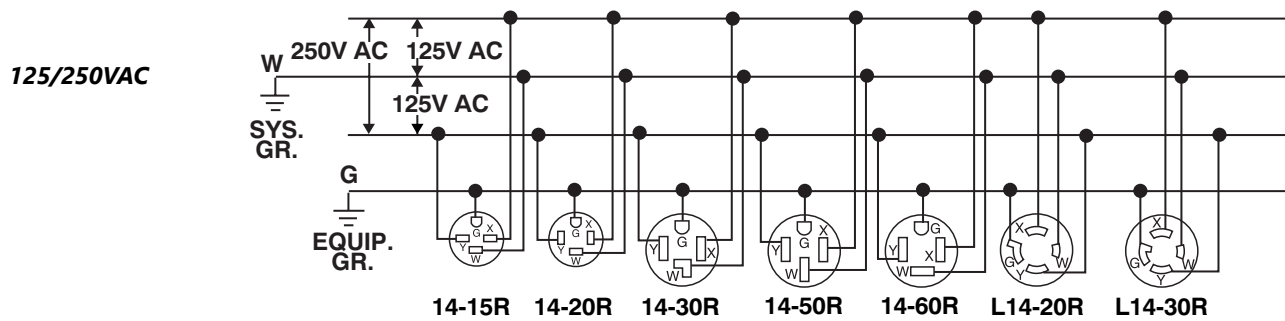


Wiring Devices – NEMA Wiring Diagrams

3-Pole 3-Wire Continued

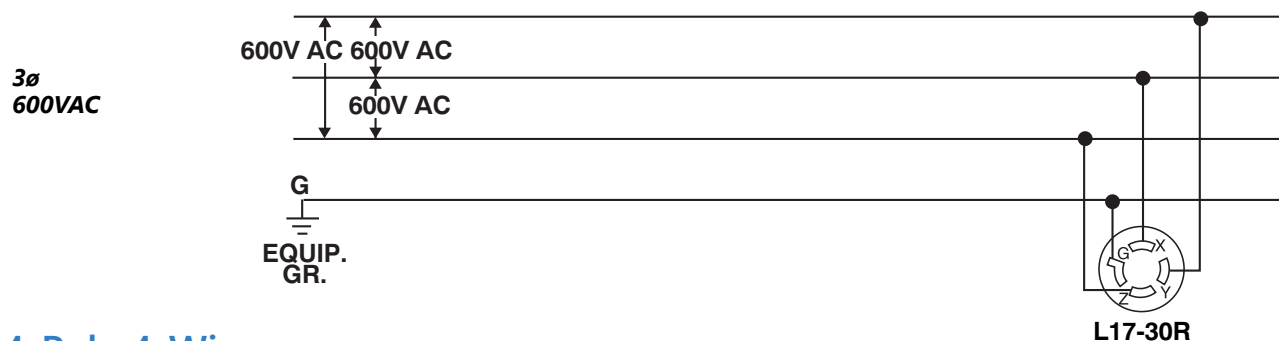


3-Pole 4-Wire Grounding

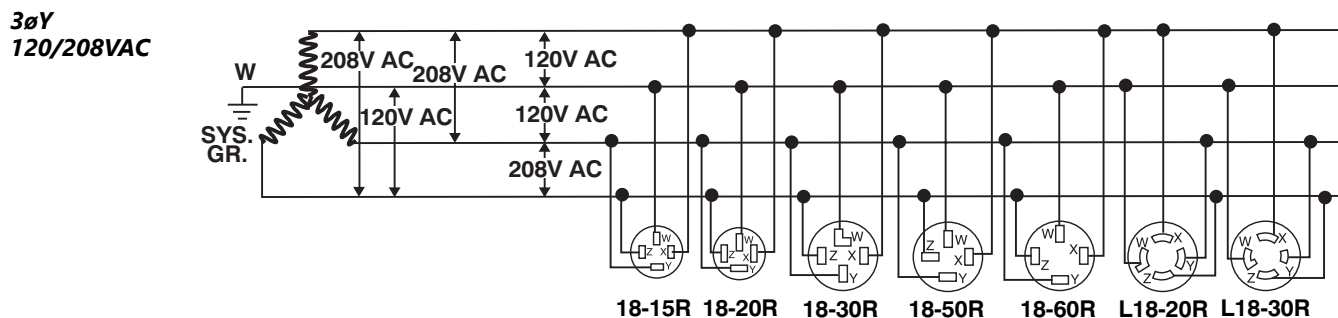


Wiring Devices – NEMA Wiring Diagrams

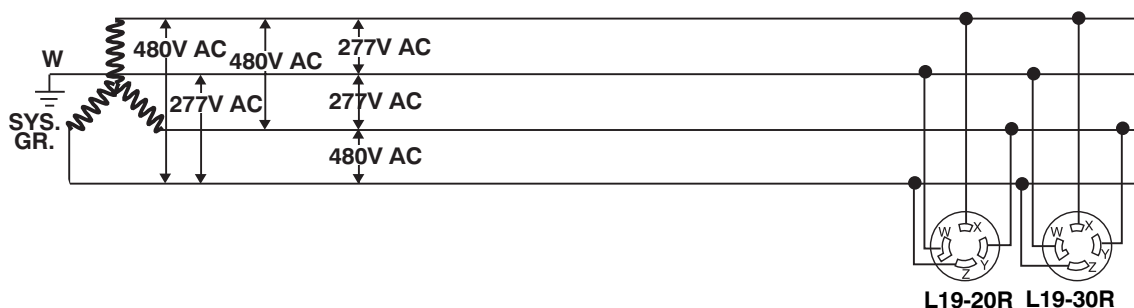
3-Pole 4-Wire Grounding Continued



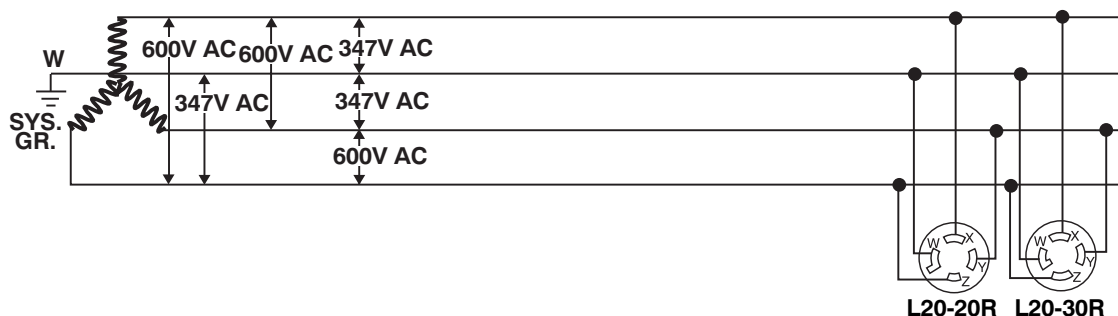
4-Pole 4-Wire



3 ϕ Y
277/480VAC



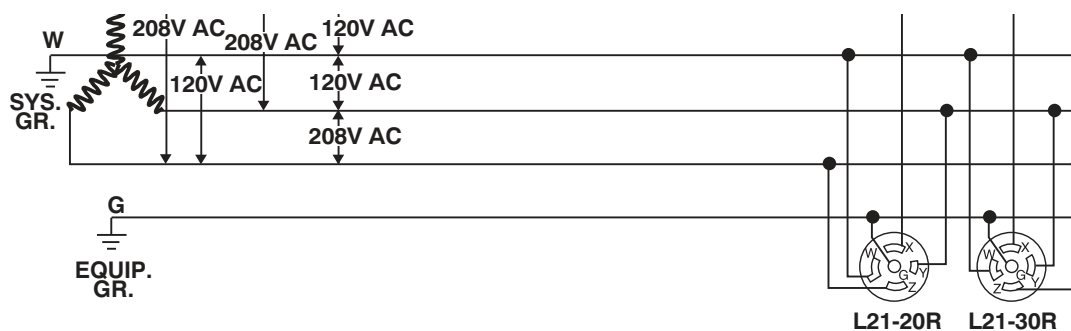
3 ϕ Y
347/600VAC



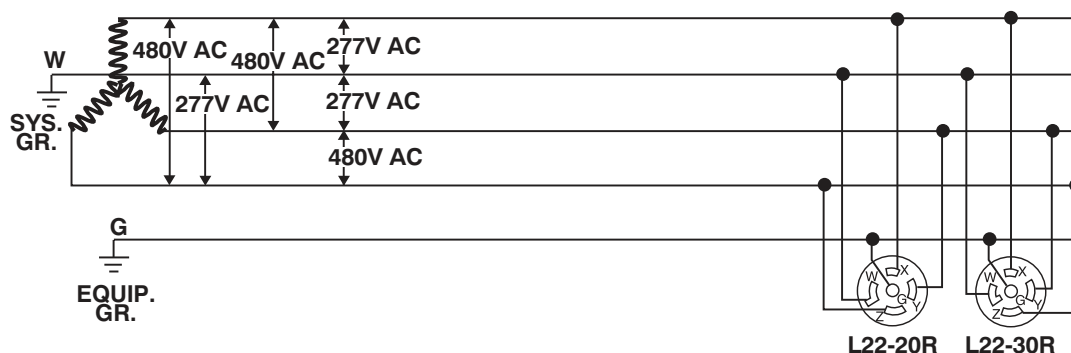
Wiring Devices – NEMA Wiring Diagrams

4-Pole 5-Wire Grounding

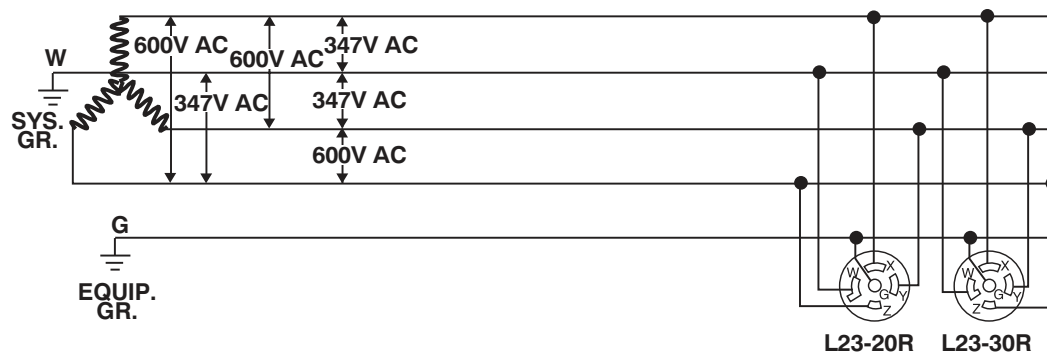
3 ϕ Y
120/208VAC



3 ϕ Y
277/480VAC



3 ϕ Y
347/600VAC



BRYANT® Wiring Devices – Accessories

Features

Nylon Angle Adapter

- Converts 20A and 30A nylon locking plugs and connectors into space saving angle devices
- Adapters permit wire to exit parallel to the receptacle; eliminating space needed for wire to bend

Weather Protective Boots; 5200 Series

- For use with Bryant 15 and 20 Amp straight blade plugs and connectors and 15 Amp locking plug and connectors
- Help prevent moisture, dust and other contaminants from infiltrating plugs and connectors
- Available in high visibility yellow or standard black
- Thermoplastic elastomer construction
- Excellent ozone and weather resistance
- Resistant to deterioration by oils and heat
- IP55 Suitability when installed and used properly with plug and connector body combinations
- Connector sealing ring provides extra protection when plug and connector are not mated
- Ribbed exterior provides firm grip

Weather Protective Boots; 7200 Series

- For use with Bryant 20 and 30 Amp locking plugs and connectors
- Help prevent moisture, dust and other contaminants from infiltrating plugs and connectors
- Chemical/UV resistant construction
- Available in high visibility yellow or standard black
- Ribbed exterior provides firm grip
- Sealing ring seals connector when not mated
- For use with Bryant Triple Gripper® 20 and 30 Amp nylon plugs and connectors
- IP55 Suitability when installed and used properly with plug and connector body combinations

Stainless Steel Cover Plates

Approvals

- UL File E31999*
- CSA Certified 18416*



*Approvals for stainless steel receptacle plates only.

Wiring Devices Accessories		
Part Number	Description	Price
Receptacle Plates		
SS8	Bryant cover plate, for use with 15A and 20A duplex receptacles in 1 gang electrical boxes.	\$2.75
SS7	Bryant cover plate, for use with 15A and 20A single receptacles in 1 gang electrical boxes.	\$3.25
SS723	Bryant cover plate, for use with 30A single receptacles in 1 gang electrical boxes.	\$6.00
SS703	Bryant cover plate, for use with 30A single receptacles in 2 gang electrical boxes.	\$9.50
SS720	Bryant cover plate, for use with 20A and 30A single receptacles in 1 gang electrical boxes.	\$4.75
Angle Adapter*		
70204ANA	Bryant 90 degree angle adapter, black. For use with 20A and 30A locking plugs and connectors.	\$25.50
Weather Boots*		
5200BP	Bryant weather boot, high visibility yellow. For use with 15A locking, 15A straight blade, and 20A straight blade plugs.	\$16.50
5200BC	Bryant weather boot, high visibility yellow. For use with 15A locking, 15A straight blade, and 20A straight blade connectors.	\$19.00
5200BSR	Bryant weather boot cap, high visibility yellow. For use with 5200BC boot.	\$23.50
5200BPB	Bryant weather boot, black. For use with 15A locking, 15A straight blade, and 20A straight blade plugs.	\$16.50
5200BCB	Bryant weather boot, black. For use with 15A locking, 15A straight blade, and 20A straight blade connectors.	\$19.50
5200BSRB	Bryant weather boot cap, black. For use with 5200BCB boot.	\$23.50
72002BC	Bryant weather boot, high visibility yellow. For use with 20A and 30A locking connectors.	\$30.00
72002BP	Bryant weather boot, high visibility yellow. For use with 20A and 30A locking plugs.	\$24.00
72002BPB	Bryant weather boot, black. For use with 20A and 30A locking plugs, chemical and ultraviolet resistant thermoplastic elastomer construction, black.	\$24.00
72002BCB	Bryant weather boot, black. For use with 20A and 30A locking connectors.	\$25.00

*Angle adapter and weather boots are not UL listed or CSA certified.



**Stainless Steel
Receptacle Plates**



**Angle Adapter
70204ANA**

BRYANT® Wiring Devices – Accessories



72002BC
Weather Boot

Note: Connectors shown on above installations are not included and are purchased separately.



Angle Adapter 70204ANA

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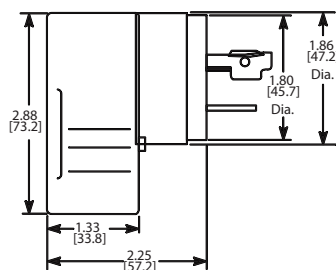
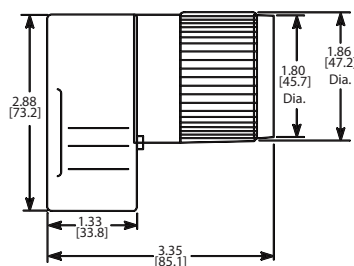
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Dimensions

inches [mm]

Angle Adapter



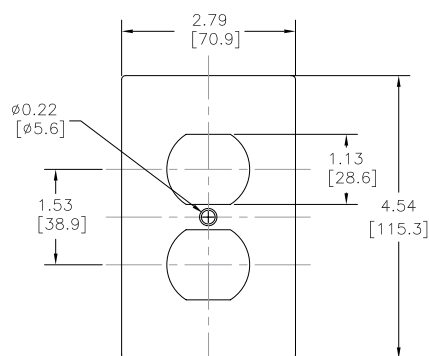
Angle Adapter

Wiring Devices – Accessories Drawings

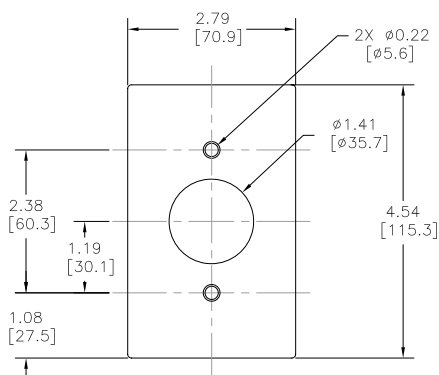
Dimensions

inches [mm]

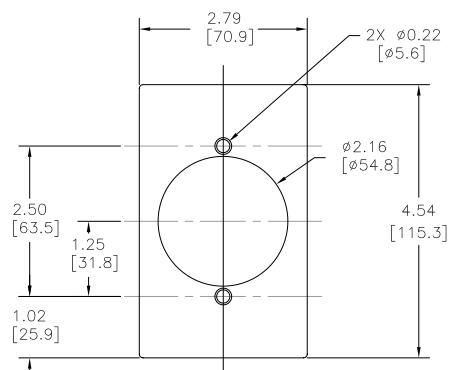
Stainless Steel Cover Plates



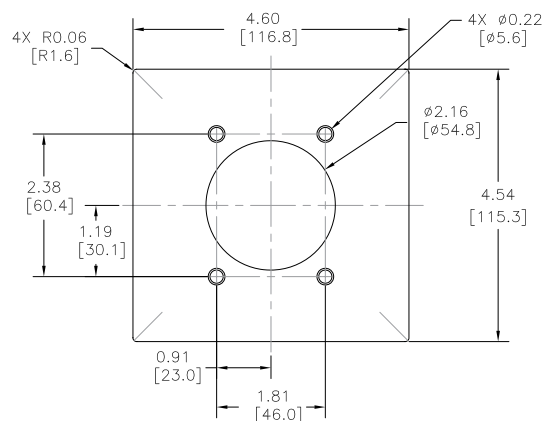
SS8



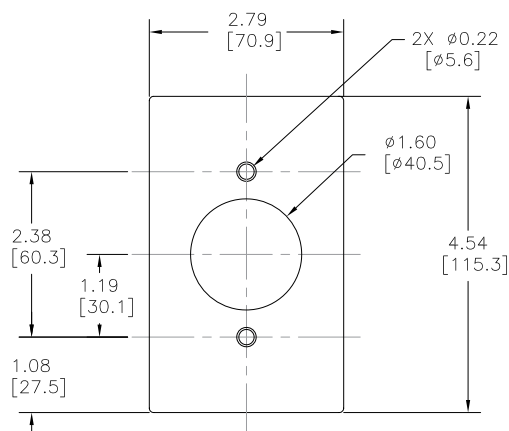
SS7



SS723



SS703



SS720