

50 Amp RV Plug Wiring



Main Breaker Panel
Shore Side

Outlet
Shore Side

NEMA 14-50R
(Receptacle)

NEMA 14-50P
(Plug)

50 Amps
Beaker

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6 Gauge
Wires in Conduit

LIVE WIRE
(RED)

LIVE WIRE
(BLACK)

NEUTRAL OR COMMON
WIRE (WHITE)

NEUTRAL OR COMMON
WIRE (WHITE)

GROUND
WIRE (GREEN)

(6-3) Cable
with Ground

Cable From Outlet To RV

(8-3) Cable with Ground: If Length is 25 feet or less
(6-3) Cable with Ground: If Length is 25-50 feet
(4-3) Cable with Ground: If Length is 50-100 feet

LIVE OR HOT
WIRE (BLACK)

Wiring In RV
Main Panel

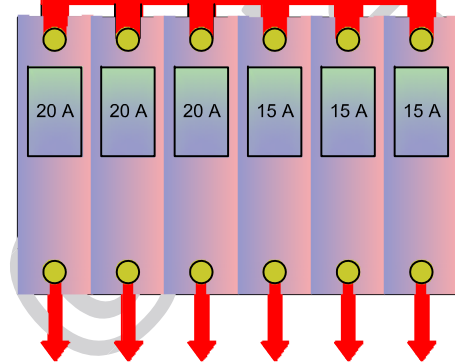
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L1 Power Bar

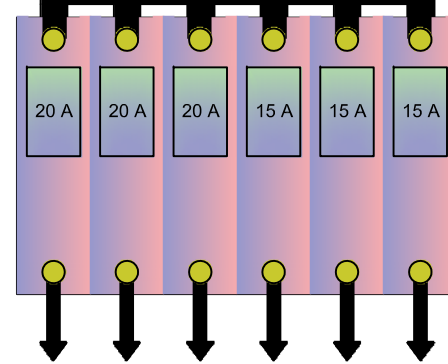
L2 Power Bar

LIVE OR HOT
WIRE (BLACK)

50 Amps
Beaker



To Different
Appliances In RV



To Different
Appliances In RV

GROUND
WIRE (GREEN)

NEUTRAL OR COMMON
WIRE (WHITE)