

IEC 60309 CONFIGURATION CHART

IEC 60309 STANDARD

IEC 60309 is a series of international standards from the International Electrotechnical Commission (IEC) for "plugs, socket-outlets and couplers for industrial purposes". They are commonly referred to as "pin & sleeve" connectors. The standard defines the current ratings, voltages, and pin arrangements of the connectors and ensures compatibility and safety between different devices from different manufacturers.

VOLTAGE

The voltage rating of IEC 60309 plugs and sockets is indicated by color code and the "clock-face hour" position of the ground pin relative to the housing keyway. The diagram below shows the keying position and the color coding that is associated with each voltage.

Understanding pin & Sleeve Part Numbers

of Conductors

Can be 3, 4, or 5 wires

Rated Current—Amperage

20, 30, 60, or 100 Amp

Device Type

P = Plug
R = Receptacle
C = Connector

Ground Position

Position of ground on clock-face

Watertight

W = Watertight

Wiring Configuration

P = Phase Wire Pole
N = Neutral
PE = Ground

Rated Voltage

100V–130V
200V/250V
200V–250V
277V
380V–480V
500V–690V

Color



460C9W



460C9W

4 - 60 - C - 9 - W

4 = Wires
60 = Amps
C = Connector style device type
9 = Clock-hour ground position
W = Watertight



IEC 60309 “PIN & SLEEVE” COMMON DATA CENTER CONFIGURATIONS

Device	Wiring Config.	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
320C4W	1P+N+PE		125	20	1	2	3	12 AWG	0.5"
320C6W	2P+PE		250	20	1	2	3	12 AWG	0.5"
320C7W	2P+PE		480	20	1	2	3	12 AWG	0.5"
420C12W	2P+N+PE		125/250	20	1	3	4	12 AWG	0.5"
420C9W	3P+PE		250	20	3	3	4	12 AWG	0.5"
420C7W	3P+PE		480	20	3	3	4	12 AWG	0.5"
420C5W	3P+PE		600	20	3	3	4	12 AWG	0.5"
520C9W	3P+N+PE		120/208	20	3	4	5	12 AWG	0.5"
520C6W	3P+N+PE		240/415	20	3	4	5	12 AWG	0.5"
520C7W	3P+N+PE		277/480	20	3	4	5	12 AWG	0.5"

Device	Wiring Config.	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
360C4W	1P+N+PE		125	60	1	2	3	6 AWG	0.75"
360C6W	2P+PE		250	60	1	2	3	6 AWG	0.75"
360C7W	2P+PE		480	60	1	2	3	6 AWG	0.75"
460C12W	2P+N+PE		125/250	60	1	3	4	6 AWG	0.75"
460C9W	3P+PE		250	60	3	3	4	6 AWG	0.75"
460C7W	3P+PE		480	60	3	3	4	6 AWG	0.75"
460C5W	3P+PE		600	60	3	3	4	6 AWG	0.75"
560C9W	3P+N+PE		120/208	60	3	4	5	6 AWG	1"
560C6W	3P+N+PE		240/415	60	3	4	5	6 AWG	1"
560C7W	3P+N+PE		277/480	60	3	4	5	6 AWG	1"

Device	Wiring Config.	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
330C4W	1P+N+PE		125	30	1	2	3	10 AWG	0.5"
330C6W	2P+PE		250	30	1	2	3	10 AWG	0.5"
330C7W	2P+PE		480	30	1	2	3	10 AWG	0.5"
430C12W	2P+N+PE		125/250	30	1	3	4	10 AWG	0.5"
430C9W	3P+PE		250	30	3	3	4	10 AWG	0.5"
430C7W	3P+PE		480	30	3	3	4	10 AWG	0.5"
430C5W	3P+PE		600	30	3	3	4	10 AWG	0.5"
530C9W	3P+N+PE		120/208	30	3	4	5	10 AWG	0.75"
530C6W	3P+N+PE		240/415	30	3	4	5	10 AWG	0.75"
530C7W	3P+N+PE		277/480	30	3	4	5	10 AWG	0.75"

Device	Wiring Config.	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
3100C4W	1P+N+PE		125	100	1	2	3	3 AWG	1"
3100C6W	2P+PE		250	100	1	2	3	3 AWG	1"
3100C7W	2P+PE		480	100	1	2	3	3 AWG	1"
4100C12W	2P+N+PE		125/250	100	1	3	4	3 AWG	1.25"
4100C9W	3P+PE		250	100	3	3	4	3 AWG	1.25"
4100C7W	3P+PE		480	100	3	3	4	3 AWG	1.25"
4100C5W	3P+PE		600	100	3	3	4	3 AWG	1.25"
5100C9W	3P+N+PE		120/208	100	3	4	5	3 AWG	1.25"
5100C6W	3P+N+PE		240/415	100	3	4	5	3 AWG	1.25"
5100C7W	3P+N+PE		277/480	100	3	4	5	3 AWG	1.25"

Wiring Configuration

P = Phase Wire Pole
N = Neutral
PE = Ground

Device Type

P = Plug
R = Receptacle
C = Connector



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