

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.

Rated Voltage	Color
100V - 130V	Yellow
125V/250V	Orange
200V - 250V	Blue
277V	Grey
380V - 480V	Red
500V - 690V	Black



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

460C9W

4 - 60 - C - 9 - W

4 Wire
60 Amp
"C" = Connector style device type
9-o'clock ground position
"W" = Watertight



IEC 60309 "PIN & SLEEVE" MOST COMMON CONNECTOR CONFIGURATIONS

Device	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
320C4W		125	20	1	2	3	12 AWG	0.5"
320C6W		250	20	1	2	3	12 AWG	0.5"
320C7W		480	20	1	2	3	12 AWG	0.5"
420C12W		125/250	20	1	3	4	12 AWG	0.5"
420C9W		250	20	3	3	4	12 AWG	0.5"
420C7W		480	20	3	3	4	12 AWG	0.5"
420C5W		600	20	3	3	4	12 AWG	0.5"
520C9W		120/208	20	3	4	5	12 AWG	0.5"
520C7W		277/480	20	3	4	5	12 AWG	0.5"
520C5W		347/600	20	3	4	5	12 AWG	0.5"

Device	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
330C4W		125	30	1	2	3	10 AWG	0.5"
330C6W		250	30	1	2	3	10 AWG	0.5"
330C7W		480	30	1	2	3	10 AWG	0.5"
430C12W		125/250	30	1	3	4	10 AWG	0.5"
430C9W		250	30	3	3	4	10 AWG	0.5"
430C7W		480	30	3	3	4	10 AWG	0.5"
430C5W		600	30	3	3	4	10 AWG	0.5"
530C9W		120/208	30	3	4	5	10 AWG	0.75"
530C7W		277/480	30	3	4	5	10 AWG	0.75"
530C5W		347/600	30	3	4	5	10 AWG	0.75"

Device	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
360C4W		125	60	1	2	3	6 AWG	0.75"
360C6W		250	60	1	2	3	6 AWG	0.75"
360C7W		480	60	1	2	3	6 AWG	0.75"
460C12W		125/250	60	1	3	4	6 AWG	0.75"
460C9W		250	60	3	3	4	6 AWG	0.75"
460C7W		480	60	3	3	4	6 AWG	0.75"
460C5W		600	60	3	3	4	6 AWG	0.75"
560C9W		120/208	60	3	4	5	6 AWG	1"
560C7W		277/480	60	3	4	5	6 AWG	1"
560C5W		347/600	60	3	4	5	6 AWG	1"

Device	Face	Volts	AMP	Phase	Pole	Wires	Wire Size	Conduit
3100C4W		125	100	1	2	3	3 AWG	1"
3100C6W		250	100	1	2	3	3 AWG	1"
3100C7W		480	100	1	2	3	3 AWG	1"
4100C12W		125/250	100	1	3	4	3 AWG	1.25"
4100C9W		250	100	3	3	4	3 AWG	1.25"
4100C7W		480	100	3	3	4	3 AWG	1.25"
4100C5W		600	100	3	3	4	3 AWG	1.25"
5100C9W		120/208	100	3	4	5	3 AWG	1.25"
5100C7W		277/480	100	3	4	5	3 AWG	1.25"
5100C5W		347/600	100	3	4	5	3 AWG	1.25"

Device Type

P = Plug
R = Receptacle
C = Connector



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