

## Features

- Very compact design - doubles pair-density compared to older 303-type connector blocks; provides generous working space between connectors
- Front-facing jumper and test field - reduced jumper installation time plus easy access to test field
- Industry-standard configuration accepts all standard 303-type protector modules
- Multiple grounding options - choice of frame or isolated grounding

## Model C(G)-391 100-Pair Connector

Bourns® C(G)-391 Connector is our most compact 100-pair central/remote office connector. This 238 mm high (9.37 in.), narrow-profile connector is designed to increase frame capacity without sacrificing valuable workspace. One 303-type connector can be replaced by two C(G)-391 connectors – doubling the pair count in the same space.

The C(G)-391 connector is ideal for use in remote switch and digital line carrier locations, as frame space in huts and controlled environment vaults (CEVs) is usually at a premium. The C(G)-391 connector is also compatible with Private Automatic Branch Exchange (PABX) and Centrex systems that use combination frame configurations – where terminal blocks and connectors are mounted on the same side of the frame. It also provides an excellent termination point for protector frame systems that use separate intermediate distribution frames for cross-connecting.

The C(G)-391 connector's narrow profile provides 114 mm (4.5 in.) of work space between adjacent connectors, allowing ample room for cross-connect (jumper) wiring and frame administration. The angled mounting allows easy access to the individual protector units, arranged in a 10x10 configuration. The front facing jumper and test fields are always within reach and the front and rear snap-through fanning strips encourage orderly wire management to simplify maintenance efforts. The stub cable and jumper wire terminations are completed using wire-wrap technology.

The C(G)-391 connector may be ordered stubless or with 22 or 24 AWG stub cable. Connectors equipped with a stub cable are shipped in the stub-down orientation. The stub direction may be reversed in the field as required.

The C(G)-391 connector accepts the full line of industry-standard 303-type, 5-pin protector modules including Bourns® hybrid, solid-state and gas tube modules. The protector module contacts in the C(G)-391 connector are available with either tin-alloy or gold-plating. Accordingly, the plating on the pins of the protector modules should match the connector to ensure optimal performance.

## Specifications

### Plastic Materials

Main Body ..... Polycarbonate, ivory, UL 94V-0

### Metal Parts

Mounting Hardware..... Steel, zinc-plated

Current-Carrying Components..... Copper or copper alloys, tin-plated

### Cable Stub

Description ..... 22 or 24 AWG, 100-pair; bonded or unbonded PVC jacket, locking swivel mount

Pressure..... Unpressurized

Termination ..... Wire-wrap

Grounding ..... #10 AWG cable ground (drain wire) to mounting bracket

Resistance ..... <5 milliohms (from cable shield bond to connector ground reference)

### Cross-Connect (Jumper) Connections

Termination ..... Wire-wrap

Contact Resistance..... < 2 milliohms

Dielectric Strength..... > 1500 VDC and >1000 VAC @ 50-60 Hz for two minutes

Insulation Resistance..... > 30 megohms @ 1000 VDC

Environmental Conditions..... Operating environment with temperature ranging from 0 °C (+32 °F) to +50 °C (+122 °F) up to 95% R.H.

### Temperature Characteristics

High Temperature ..... +60 °C (+140 °F) without deformation

### Frame Vertical Capacities

Height 2.13 m (7.0 ft.) ..... 700 pairs

Height 2.44 m (8.0 ft.) ..... 800 pairs

Height 2.74 m (9.0 ft.) ..... 1000 pairs

Height 3.51 m (11.5 ft.) ..... 1200 pairs

Height 4.27 m (14.0 ft.) ..... 1700 pairs

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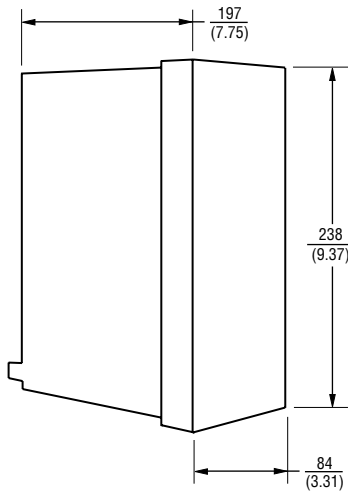
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Users should verify actual device performance in their specific applications.

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## Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

## Packaging Specifications

Product Code	Std. Pack	Stub Length m (ft.)	Size (H x W x D) mm (in.)	Weight kg (lb.)
<b>Stubless</b>				
NT8Gx0AA	1	0	310 x 360 x 180 (12 x 14 x 7)	3.2 (7)
<b>22 AWG Stub</b>				
NT8GxxAG	1	9.1 (30)	790 x 790 x 150 (31 x 31 x 6)	13.2 (29)
NT8GxxAL	1	15.2 (50)	790 x 790 x 150 (31 x 31 x 6)	20.0 (44)
NT8GxxAS	1	24.4 (80)	790 x 790 x 150 (31 x 31 x 6)	29.5 (65)
NT8GxxBA	1	30.5 (100)	790 x 790 x 300 (31 x 31 x 12)	36.3 (80)
<b>24 AWG Stub</b>				
NT8GxxAG	1	9.1 (30)	790 x 790 x 150 (31 x 31 x 6)	10.0 (22)
NT8GxxAL	1	15.2 (50)	790 x 790 x 150 (31 x 31 x 6)	14.1 (31)
NT8GxxAS	1	24.4 (80)	790 x 790 x 150 (31 x 31 x 6)	20.4 (45)
NT8GxxBA	1	30.5 (100)	790 x 790 x 300 (31 x 31 x 12)	24.9 (55)

## How to Order

Product Code	Part Number	Description
<b>Stubless</b>		
NT8G10AA	<b>A0352994</b>	NT8G10AA, 100-PR, WW, Gold, Right Mount
NT8G20AA	<b>A0409909</b>	NT8G20AA, 100-PR, WW, Gold, Angle Mount
NT8G80AA	<b>A0353600</b>	NT8G80AA, 100-PR, WW, Tin, Left Mount
<b>Gold, Angle Mount, Frame Ground, 24 AWG, Bonded Cable</b>		
NT8G13AG	<b>NT8G13AG</b>	NT8, 100-PR, WW, 24 AWG, 30 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G13AL	<b>NT8G13AL</b>	NT8, 100-PR, WW, 24 AWG, 50 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G13AS	<b>NT8G13AS</b>	NT8, 100-PR, WW, 24 AWG, 80 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G13BA	<b>NT8G13BA</b>	NT8, 100-PR, WW, 24 AWG, 100 ' STUB, Down, NO MODS, Gold, Angle Mount
<b>Gold, Angle Mount, Frame Ground, 22 AWG, Bonded Cable</b>		
NT8G14AG	<b>NT8G14AG</b>	NT8, 100-PR, WW, 22 AWG, 30 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G14AL	<b>NT8G14AL</b>	NT8, 100-PR, WW, 22 AWG, 50 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G14AS	<b>NT8G14AS</b>	NT8, 100-PR, WW, 22 AWG, 80 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G14BA	<b>NT8G14BA</b>	NT8, 100-PR, WW, 22 AWG, 100 ' STUB, Down, NO MODS, Gold, Angle Mount
<b>Gold, Right Mount, Frame Ground, 22 AWG, Bonded Cable</b>		
NT8G14JG	<b>NT8G14JG</b>	NT8, 100-PR, WW, 22 AWG, 30 ' STUB, Down, NO MODS, Gold, Right Mount
NT8G14JL	<b>NT8G14JL</b>	NT8, 100-PR, WW, 22 AWG, 50 ' STUB, Down, NO MODS, Gold, Right Mount
NT8G14JS	<b>NT8G14JS</b>	NT8, 100-PR, WW, 22 AWG, 80 ' STUB, Down, NO MODS, Gold, Right Mount
NT8G14KA	<b>NT8G14KA</b>	NT8, 100-PR, WW, 22 AWG, 100 ' STUB, Down, NO MODS, Gold, Right Mount

Note: Order by Part Number.

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# Model C(G)-391 100-Pair Connector

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## How to Order (Continued)

Product Code	Part Number	Description
<b>Gold, Straight Mount, Frame Ground, 24 AWG, Bonded Cable</b>		
NT8G13JG	NT8G13JG	NT8, 100-PR, WW, 24 AWG, 30 ' STUB, Down, NO MODS, Gold, Straight Mount
NT8G13JL	NT8G13JL	NT8, 100-PR, WW, 24 AWG, 50 ' STUB, Down, NO MODS, Gold, Straight Mount
NT8G13JS	NT8G13JS	NT8, 100-PR, WW, 24 AWG, 80 ' STUB, Down, NO MODS, Gold, Straight Mount
NT8G13KA	NT8G13KA	NT8, 100-PR, WW, 24 AWG, 100 ' STUB, Down, NO MODS, Gold, Straight Mount
<b>Gold, Angle Mount, Frame Ground, 24 AWG, Bonded Cable</b>		
NT8G23AG	NT8G23AG	NT8, 100-PR, WW, 24 AWG, 30 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G23AL	NT8G23AL	NT8, 100-PR, WW, 24 AWG, 50 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G23AS	NT8G23AS	NT8, 100-PR, WW, 24 AWG, 80 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G23BA	NT8G23BA	NT8, 100-PR, WW, 24 AWG, 100 ' STUB, Down, NO MODS, Gold, Angle Mount
<b>Gold, Angle Mount, Frame Ground, 22 AWG, Bonded Cable</b>		
NT8G24AG	NT8G24AG	NT8, 100-PR, WW, 22 AWG, 30 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G24AL	NT8G24AL	NT8, 100-PR, WW, 22 AWG, 50 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G24AS	NT8G24AS	NT8, 100-PR, WW, 22 AWG, 80 ' STUB, Down, NO MODS, Gold, Angle Mount
NT8G24BA	NT8G24BA	NT8, 100-PR, WW, 22 AWG, 100 ' STUB, Down, NO MODS, Gold, Angle Mount
<b>Tin, Left Mount, Isolated Ground, 24 AWG, Bonded Cable</b>		
NT8G83AG	A0355687	NT8G83AG, 100-PR, WW, 24 AWG, 30 ' STUB, Down, NO MODS, Tin, Left Mount
NT8G83AL	A0355689	NT8G83AL, 100-PR, WW, 24 AWG, 50 ' STUB, Down, NO MODS, Tin, Left Mount
NT8G83AS	A0355690	NT8G83AS, 100-PR, WW, 24 AWG, 80 ' STUB, Down, NO MODS, Tin, Left Mount
<b>Tin, Left Mount, Isolated Ground, 22 AWG, Bonded Cable</b>		
NT8G84AG	A0355693	NT8G84AG, 100-PR, WW, 22 AWG, 30 ' STUB, Down, NO MODS, Tin, Left Mount
NT8G84BA	A0355697	NT8G84BA, 100-PR, WW, 22 AWG, 100 ' STUB, Down, NO MODS, Tin, Left Mount

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