

C(G)-303 100-Pair Connector

An Evolant™ Solutions Product

Corning
Cable Systems

Description

Corning Cable Systems' C(G)-303 connector is intended for applications where lower pair density and full frontal-facing accessibility are required.

The connector is used in central offices where there is ample frame space and is also used to fill up existing "303" verticals.

This 19-in-high (483 mm) connector is a 100-pair connector for use on central office main distributing frames, Private Automatic Branch Exchange (PABX), carrier and other special service applications.

The C(G)-303 connector may be used on central office mainframes and other frames with 8 inches (203 mm) between verticals.

The C(G)-303 connector accepts the full line of industry-standard 303-type, 5-pin protector units, including Corning Cable Systems' Solid-State Overvoltage Protector (SSOVP) units.

Features / Benefits

Configuration

- Full front-facing protector unit, cross-connect (jumper) and test fields

Protector Field

- 5 x 20 field layout
- Uses the 5-pin, 303-type protector modules
- Tin alloy-plated or gold-plated protector receptacles

Test Field

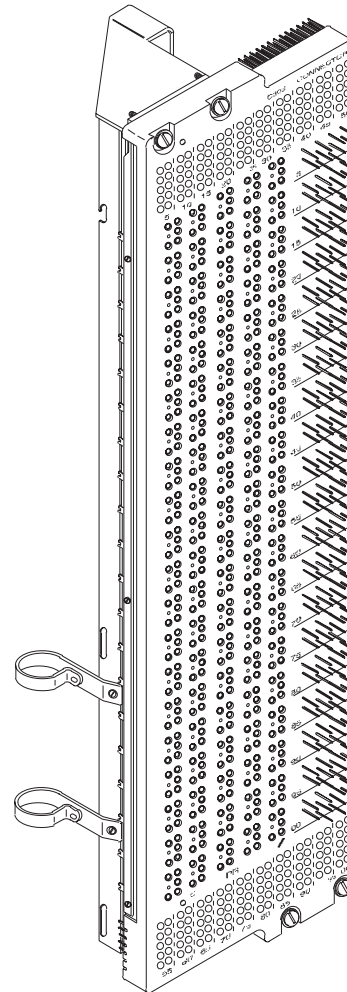
- Two groups of 50 pairs each, located at top and bottom of the connector panel
- Accepts all standard 303-type test equipment
- Ample room for single-pair testing

Cross-Connect (Jumper) Field

- Wire-wrap terminals

Fanning Strips

- Integral fanning strip



C-303 100-Pair Connector | Drawing ZA-894

Stub

- Available with or without stub
- Stub cable may be 22 or 24 AWG

Protection Ground

- Frame ground method only

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Specifications

Plastic Materials	Main Body: Polycarbonate, Ivory, UL 94V-0
Metal Parts	Mounting Hardware: Steel-, cadmium- or 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; stub up or stub down
Pressure	Unpressurized
Termination	Wire-wrap
Grounding	#10 AWG cable ground (drain wire) to mounting bracket
Resistance	< 5 mohms (from cable shield bond to connector ground reference)
Cross-Connect (Jumper) Connections	
Termination	Wire-wrap
Contact Resistance	< 2 mohms
Dielectric Strength	> 1500 VDC and > 1000 VAC @ 50-60 Hz for two minutes
Insulation Resistance	> 30 Mohms @ 1000 VDC
Environmental Conditions	Operating environment with temperature ranging from 32°F (0°C) to 122°F (50°C) up to 95% R.H.
Temperature Characteristics	High Temperature: 140°F (60°C) without deformation

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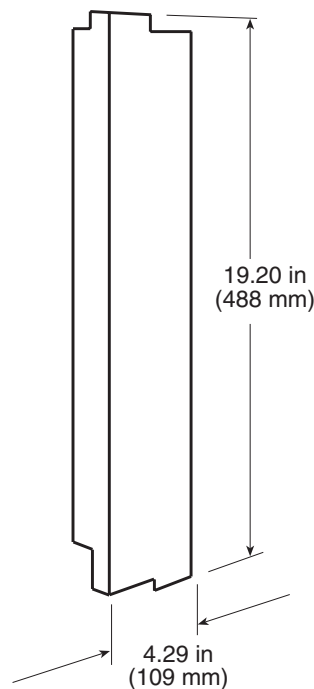
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Frame Vertical Capacities

Height – ft (m)	Pairs
7.0 (2.13)	300
8.0 (2.44)	400
9.0 (2.74)	400
11.5 (3.51)	600
14.5 (4.27)	800

Dimensions and Shipping Weight

Description	Standard Pack	Stub Length (ft)	Size (H x W x D) in (cm)	Weight lb (kg)
Stubless	1	-	6 x 19.5 x 8 (15 x 50 x 20)	5.5 (2.5)
Stubbed	1	< 100	31 x 31 x 6 (79 x 79 x 15)	26 to 81 (13.2 to 37)
Stubbed	1	≥ 100	31 x 31 x 12 (13.2 to 37)	Add 7 lb for every 10 ft and 3.2 kg for every 3.1 m



Drawing ZA-742

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Ordering Information

Stubless

To order the stubless connector; please select part number.

303 - 0000 for tin-plated receptacles

303 - 0B000 for gold-plated receptacles

Stubbed

To order the stubbed connector, please select the stub gauge, stub length adder and the stub orientation. Protector modules must be ordered separately.

For tin-plated receptacles

303 - 00
1 2 3

1 Select stub gauge.

2 = 22 AWG bonded, 100-pair

4 = 24 AWG bonded, 100-pair

2 Select stub length adder.

2 = 20 ft (6.1 m)

3 = 30 ft (9.1 m)

4 = 40 ft (12.2 m)

5 = 50 ft (15.2 m)

8 = 80 ft (24.4 m)

0 = 100 ft (30.5 m)

F = 130 ft (39.6 m)

H = 150 ft (45.7 m)

L = 180 ft (54.9 m)

N = 200 ft (61.0 m)

3 Select stub orientation.

Blank = Stub down (default)

U = Stub up

For gold-plated receptacles

303 - 0B
1 2

1 Select cable stub type.

1 = 24 AWG, unbonded, stub down, 100-pair

2 = 22 AWG, unbonded, stub down, 100-pair

5 = 24 AWG, unbonded, stub up, 100-pair

6 = 22 AWG, unbonded, stub up, 100-pair

2 Select stub length.

02 = 20 ft (6.1 m)

03 = 30 ft (9.1 m)

04 = 40 ft (12.2 m)

05 = 50 ft (15.2 m)

08 = 80 ft (24.4 m)

10 = 100 ft (30.5 m)

13 = 130 ft (39.6 m)

15 = 150 ft (45.7 m)

18 = 180 ft (54.9 m)

20 = 200 ft (61.0 m)

Example

Product Code	Description
303-0025	C-303 Connector with 22 AWG 50-ft-long (15.2 m) cable stub, stub down

Practices

303-1002 Equipment Description and Installation

Accessories

Product Code	Ordering Number	Description
303-1052	A0337638	Pin replacement Kit for C-303 connector (tin-alloy-plated pins)
303-1152	A0337639	Pin replacement Kit for CG-303 connector (gold-plated pins)

A full range of protector modules, mounting bar assemblies, testing connectors and cords are available for the CG-303 connector.



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