

# R305 Central Office Connector

■ Outside Plant for  
Business-Critical Continuity

## Key Features

- Maximum density saves space; increases number of protected cable pairs per frame vertical
- Angled equipment field pins provide convenient termination
- Equipment field cover protects personnel from injury and pins from damage and/or electrical shorts
- Accepts industry standard protector modules to permit a wide module selection
- Standard 50-pair 303-type test fields save costs; require no special test gear; are compatible with other connectors for frame expansion
- Gold-plated protector module sockets and test-field contacts provide superior electrical contact; eliminate noise problems

## Description

The R305 is a 100-pair high-density connector used on central office main distributing frames. Its compact design, only 8.5-in. high, allows maximum density per frame vertical. The connector accepts industry standard 5-pin protector modules.

The R305 can be factory stubbed with 22 or 24-gauge cable in 10-ft. increments, starting at 20 feet. The stub is complete with a moisture dam and grounding harness. The connector has a 6AWG grounding system and is available with or without isolated ground.

The equipment field pins are located on the right side, and are angled forward for convenient terminating. The equipment field dust cover swings out of the way for wiring, and prevents personnel from coming in contact with the wiring field when pulling modules from an adjacent connector. A fanning strip to organize jumper wires is located at the rear edge of the equipment field. The front-facing test fields make field testing easy.

## Application

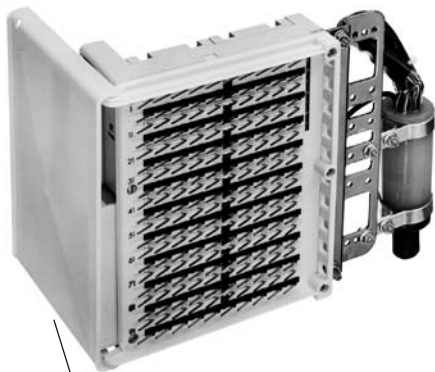
The R305 protects personnel and equipment from abnormal voltages and currents on incoming cable pairs. It is ideal for use in central offices. The R305 is used on conventional distribution frames with 8-in. centers.

**Plug-in modules ordered separately.**



R305

# R305 Central Office Connector



R305 Swing-Out Cover  
(shown in open position on connector)  
F522385 replacement cover

## Dimensions

Connector	H	W	D
R305	8.43-in. (214mm)	4.30-in. (109mm)	8.00-in. (203mm)

## Specifications

Frame Height	Capacity (Stub Up)*	Capacity (Stub Down)
7-ft.	700 pair	800 pair
8-ft.	900 pair	1000 pair
9-ft.	1000 pair	1100 pair
11.5-ft.	1400 pair	1400 pair

\* Reduction in stub up capacity is due to accommodating cable bend to overhead rack.

## Ordering Matrix

<b>Ground Configuration</b>	blank = Conventional ground S = Isolated ground
<b>Connector Application</b>	R305 = Standard ground
<b>Stub Cable Gauge</b>	A = 24-gauge, .96 dia. o.d. B = 22-gauge, 1.17 dia. o.d.
<b>Stub Cable Type</b>	A = Alvyn T = Two 22AWG cables**
<b>Stub Length in Feet</b> (20-ft. minimum in 10-ft. increments)	
<b>Stub Direction</b>	U = Up D = Down

\*\* T configuration provides an equivalent to T screen-type cable. Two 50-pair cables are secured together every three feet.

NOTE 1: Not all catalog numbers can be configured.

NOTE 2: To order a stubless connector use Catalog Number R305 (Part Number F251000).

NOTE 3: Order one temporary bracket per installation when field stubbing (Catalog Number P33779, Part Number F533779).

NOTE 4: See the Protection section for protector modules, the Accessories section for test equipment accessories, and the CO & Remote Frames Systems section for mounting bars.

# R305 Central Office Connector

## Ordering Information: Stubbless Connectors

Catalog Number	Part Number	Description
R305	F251000	Wire-wrap version
SR305	F251599	Isolated ground wire-wrap version

## Ordering Information: Stubbed Connectors — 24 AWG

Catalog Number	Part Number	Description
<b>Wire-Wrap Equipment Field</b>		
R305AA25U	F251008	Connector, wire-wrap equipment field, 25-ft. stub up
R305AA25D	F251007	Connector, wire-wrap equipment field, 25-ft. stub down
R305AA50U	F251038	Connector, wire-wrap equipment field, 50-ft. stub up
R305AA50D	F251037	Connector, wire-wrap equipment field, 50-ft. stub down
R305AA75U	F251068	Connector, wire-wrap equipment field, 75-ft. stub up
R305AA75D	F251067	Connector, wire-wrap equipment field, 75-ft. stub down
R305AA100U	F251095	Connector, wire-wrap equipment field, 100-ft. stub up
R305AA100D	F251096	Connector, wire-wrap equipment field, 100-ft. stub down
<b>Isolated Ground, Wire-Wrap Equipment Field</b>		
SR305AA30U	F251606	Connector, wire-wrap equipment field, 30-ft. stub up
SR305AA30D	F251604	Connector, wire-wrap equipment field, 30-ft. stub down
SR305AA50U	F251630	Connector, wire-wrap equipment field, 50-ft. stub up
SR305AA50D	F251613	Connector, wire-wrap equipment field, 50-ft. stub down
SR305AA60U	F251629	Connector, wire-wrap equipment field, 60-ft. stub up
SR305AA75D	F251036	Connector, wire-wrap equipment field, 75-ft. stub down
SR305AA100D	F251690	Connector, wire-wrap equipment field, 100-ft. stub down
SR305AA100U	F251691	Connector, wire-wrap equipment field, 100-ft. stub up

# R305 Central Office Connector

## Ordering Information: Stubbed Connectors — 22 AWG

Catalog Number	Part Number	Description
<b>Wire-Wrap Equipment Field</b>		
R305BA20U	F251004	Connector, wire-wrap equipment field, 20-ft. stub up
R305BA20D	F251003	Connector, wire-wrap equipment field, 20-ft. stub down
R305BA50U	F251040	Connector, wire-wrap equipment field, 50-ft. stub up
R305BA50D	F251039	Connector, wire-wrap equipment field, 50-ft. stub down
R305BA75U	F251070	Connector, wire-wrap equipment field, 75-ft. stub up
R305BA75D	F251069	Connector, wire-wrap equipment field, 75-ft. stub down
<b>Isolated Ground, Wire-Wrap Equipment Field</b>		
SR305BA20U	F251603	Connector, wire-wrap equipment field, 20-ft. stub up
SR305BA20D	F251615	Connector, wire-wrap equipment field, 20-ft. stub down
SR305BA50U	F251620	Connector, wire-wrap equipment field, 50-ft. stub up
SR305BA50D	F251618	Connector, wire-wrap equipment field, 50-ft. stub down
SR305BA60U	F251621	Connector, wire-wrap equipment field, 60-ft. stub up
SR305BA80D	F251625	Connector, wire-wrap equipment field, 80-ft. stub down

## Accessories

Catalog Number	Part Number	Description
P22385	F522385	R305 replacement cover
1161	F013791	14-in. single pair tester w/ gold-plated pins

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