

# R399 & AR399 Central Office Connectors

■ Outside Plant for  
Business-Critical Continuity

## Key Features

- Maximum density saves space; increases number of protected cable pair per frame vertical
- Narrow block width provides large inter-vertical working space for fast, convenient jumper administration
- Front ground test point offers labor savings and reliability; provides a convenient place to attach an alligator clip without reaching behind the connector
- Accepts industry standard protector modules to permit a wide module selection
- Gold-plated protector module sockets and test field contacts provide superior electrical contact to eliminate noise problems
- Integral field-stubbing bracket saves costs; permits fast, easy field stubbing; no temporary mounting bracket needed
- UL Listed for documented performance
- Swivel stub design for up or down stub configuration facilitates ordering

## Description

The R399 is the highest density 100-pair connector available that utilizes industry standard 5-pin protector modules and is UL Listed to meet specification number UL 497 and is RUS accepted when used with S3AB, 3AB, 6A20, or 3GUVS protector modules. Its compact design, only 8.5-in. high, allows maximum density per frame vertical.

Made of a polycarbonate-blend, connectors 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 utilizes a 6AWG grounding harness and is available with or without isolated ground.

The connector is available in either a conventional, R399, or angled version, AR399. The angled version provides greater visibility and access to the protector module field, while retaining front access to both jumper field and test fields.

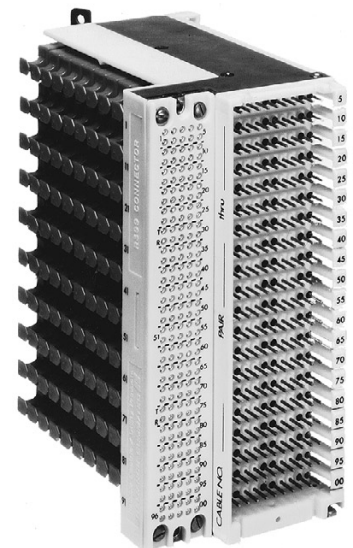
The front-facing equipment field offers a choice of termination: wire-wrap or bifurcated quick-clips. Front and rear snap-through fanning strips facilitate orderly jumpering and offer highly visible pair count identification. The 100-pair front-facing test field makes testing easy.

The R399 is RUS accepted, UL Listed to meet specification number UL 497, and meets or exceeds the specifications set forth in Telcordia TA-EOP-000164 and GTE GTS 8339 documents.

## Application

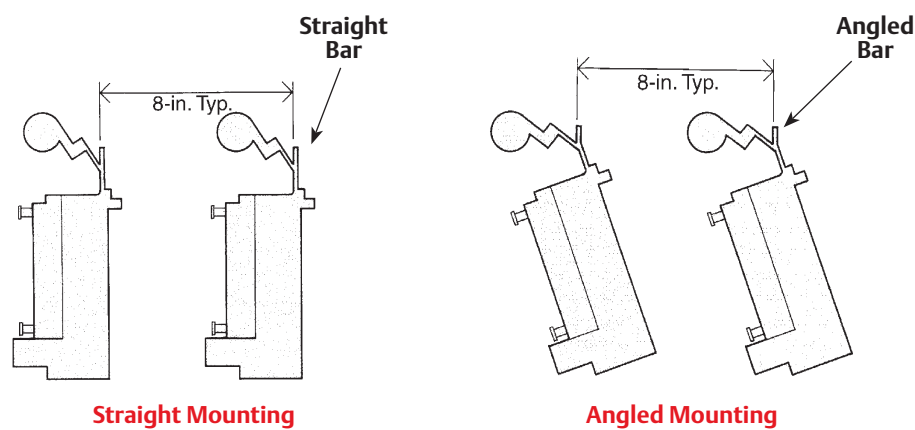
The R399 protects personnel and equipment from abnormal voltages and currents on incoming cable pairs. It mounts on central office conventional frames with 8-in. centers, and 2500 and RDS modular frames from Emerson.

**NOTE: 5-pin plug-in protection modules ordered separately.**



**R399 Wire Wrap  
(Stubless)**

# R399 & AR399 Central Office Connectors



## Dimensions

Connector	H	W	D
R399	8.5-in. (216 mm)	4.0-in. (104mm)	8.0-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

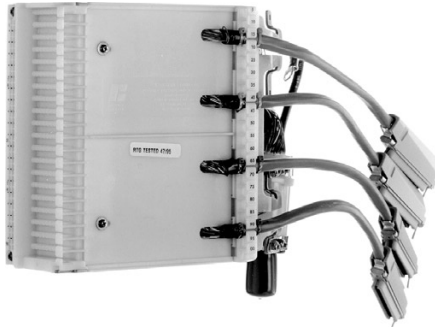
Mounting Configuration	blank = Non-angled mount	A = Angled mount
Ground Configuration	blank = Conventional ground	S = Isolated ground
Connector Application	R399 = Standard ground, left mount RZ399 = For use on right side protector columns of RDS frame and 2500 frame RG399 = Connectorized equipment side (four, 25-pair receptacle connectors) RX399 = Less test fields	
Optional	C = Bifurcated quick-clip equipment field blank = Wire-wrap equipment field (and default for RG Series.)	
Stub Cable Gauge	A = 24 gauge, .96 dia. o.d.	B = 22 gauge, 1.17 dia. o.d.
Stub Cable Type	A = Alvyn	T = Two 22AWG cables*
Stub Length (20-ft. minimum in 10-ft. increments)		

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

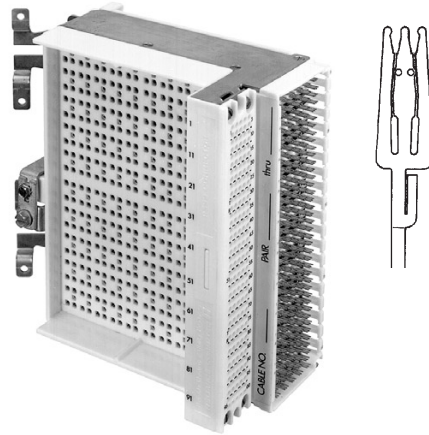
NOTE: Not all catalog numbers can be configured.



# R399 & AR399 Central Office Connectors



**RG399**  
**Connectorized R399**



**R399C Bifurcated**  
**(Stubless Shown)**

## Ordering Information

Catalog Number	Part Number	Description
<b>Stubless Connectors</b>		
R399	F249001	Wire-wrap version*
AR399	F400200	Angle mount wire-wrap
SR399	F249304	Isolated ground wire-wrap
R399C	F249501	Bifurcated quick-clip (IDC)
RX399	F249900	Without test field
RX399CG	F249210	Without test field Bifurcated quick-clip (IDC)
RZ399C	F249400	Right mount with bifurcated quick-clips
<b>24AWG Alvyn Cable</b>		
R399AA25	F249024	Wire-wrap connector 25-ft. swivel stub
R399AA50	F249008	Wire-wrap connector 50-ft. swivel stub
R399AA75	F249111	Wire-wrap connector 75-ft. swivel stub
R399AA100	F249045	Wire-wrap connector 100-ft. swivel stub

\* The R399 is RUS accepted when used with S3AB, 3AB, 6A20, or 3GUVS protector modules.

# R399 & AR399 Central Office Connectors

## Ordering Information

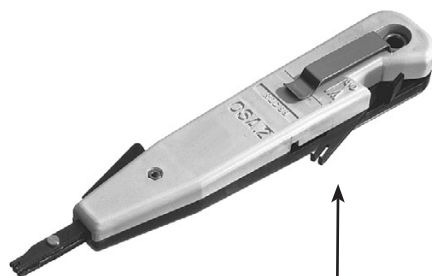
Catalog Number	Part Number	Description
<b>Quick Clip 24AWG Alvyn Cable</b>		
R399CAA20	F249500	Connector quick-clip 20ft. swivel stub
R399CAA30	F249507	Connector quick-clip 30ft. swivel stub
R399CAA50	F249513	Connector quick-clip 50ft. swivel stub
R399CAA60	F249919	Connector quick-clip 60ft. swivel stub
R399CAA70	F249595	Connector quick-clip 70ft. swivel stub
<b>Connectorized 24AWG Alvyn Cable</b>		
RG399AA20	F249981	Connectorized connector 20ft. swivel stub
RG399AA25	F249985	Connectorized connector 25ft. swivel stub
RG399AA30	F249453	Connectorized connector 30ft. swivel stub
RG399AA50	F253321	Connectorized connector 50ft. swivel stub
<b>Angle Stubbed 24AWG Alvyn Cable</b>		
AR399AA20	F400201	Wire-wrap connector 25ft. swivel stub
AR399AA50	F1001775	Wire-wrap connector 50ft. swivel stub
<b>Isolated Ground 24AWG Alvyn Cable</b>		
SR399AA25	F249323	Wire-wrap connector 25ft. swivel stub
SR399AA50	F249308	Wire-wrap connector 50ft. swivel stub
SR399AA75	F249319	Wire-wrap connector 75ft. swivel stub
SR399AA80	F249354	Wire-wrap connector 80ft. swivel stub
SR399AA100	F249365	Wire-wrap connector 100ft. swivel stub
<b>24AWG Alvyn Cable</b>		
R399BA25	F249015	Wire-wrap connector 25ft. swivel stub
R399BA50	F249014	Wire-wrap connector 50ft. swivel stub
R399BA75	F249077	Wire-wrap connector 75ft. swivel stub
R399BA100	F249116	Wire-wrap connector 100ft. swivel stub

# R399 & AR399 Central Office Connectors

## Ordering Information

Catalog Number	Part Number	Description
<b>Quick-Clip 22AWG Alvyn Cable</b>		
R399CBA20	F249506	Connector quick-clip 20ft. swivel stub
R399CBA30	F249521	Connector quick-clip 30ft. swivel stub
R399CBA50	F249458	Connector quick-clip 50ft. swivel stub
R399CBA60	F249573	Connector quick-clip 60ft. swivel stub
R399CBA80	F249522	Connector quick-clip 80ft. swivel stub
<b>Connectorized 22AWG Alvyn Cable</b>		
R399BA50	F247001	Connectorized connector 50ft. swivel stub
<b>Angle Stubbed 22AWG Alvyn Cable</b>		
AR399BA40	F249665	Wire-wrap connector 40ft. swivel stub
AR399BA50	F249564	Wire-wrap connector 50ft. swivel stub
AR399BA75	F249565	Wire-wrap connector 75ft. swivel stub
AR399BA100	F249566	Wire-wrap connector 100ft. swivel stub
<b>Isolated Ground 22AWG Alvyn Cable</b>		
SR399BA25	F249300	Wire-wrap connector 25ft. swivel stub
SR399BA50	F249335	Wire-wrap connector 50ft. swivel stub
SR399BA75	F249346	Wire-wrap connector 75ft. swivel stub
SR399BA100	F249419	Wire-wrap connector 100ft. swivel stub
<b>Less Test Field 22AWG Alvyn Cable</b>		
RX399AA50	F249821	Wire-wrap connector 100ft. swivel stub
RX399AA100	F249578	Wire-wrap connector 100ft. swivel stub
RX399CAA20	F249808	Connectorized quick-clip 20ft. swivel stub
RX399CAA25	F249807	Connectorized quick-clip 25ft. swivel stub
RX399CAA30	F249802	Connectorized quick-clip 30ft. swivel stub

# R399 & AR399 Central Office Connectors



**RQC99**  
with removal tool



**P46321**

## Accessories

Catalog Number	Part Number	Description
R399LPKIT	F568051	Isolated ground kit
P48271	F548271	100-pr. wall mounting bracket
P43523	F543523	Alignment clip, wire-wrap version
P43674	F543674	Alignment clip, quick-clip version
P46321	F546321	Cable pair ID label
RQC99	F249599	Quick-clip wire insertion/removal tool
RQC99BT	F1002123	Universal punch down tool w/o removal tool
3991138	F014061	Front tap shoe pair tester for 100-pr.
3991160	F014058	Cable pair shorting plug
3991161	F014059	Single pair test cord with alligator clips
3991162	F014088	Test field insulator button
3997137	F014060	Patch test cord

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

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