



310/310M-Type Connector

Improved, Compact Design Increases Frame Density on Conventional Distributing Frames

The 310/310M-Type Connector is a high-density connector used to terminate outside plant cables on low-profile or tall conventional distributing frames. The connector is easy to install and extends only 7 inches from the vertical frame on which it is mounted. For added convenience, the enhanced 310M-Type Connector offers a new angled mounting option, extending at a 12.5° angle from the face of the vertical frame mounting bar. This provides "semi" frontfacing test, cross-connect and protector unit fields, which facilitate testing, jumper terminating as well as protector unit administration.

The left face of the connector has room for 100 3-, 4- or 7-Type Protector Units, arranged in two 5 by 10 arrays. The protector units must be ordered separately. When installed, the connector is only 9 3/8 inches high and 4 inches wide — with 4- or 7- Type protector units installed. Occupying half the vertical space of the 303-Type Connector, this compact design allows you to increase the frame density on conventional distributing frames currently using 303 or earlier designed connectors.

Variety of Cross-Connect Options

In the cross-connect field you can choose from three options. Each option is compatible with the high-density central office connecting blocks:

- single wire-wrap design
- bifurcated wire-wrap design
- punch-on, bifurcated quick-clip arrangement (eliminates need for wire stripping and wrapping).



Easy Access to the Frame

The 310/310M-Type Connector comes with both 24 (0.51 mm) and 22 (0.64 mm) AWG stub cables, and you can choose stub cable in six standard lengths: 30 ft. (9.1 m), 50 ft. (15.2 m), 80 ft. (24.4 m), 100 ft. (30.5 m), 150 ft. (45.7 m), and 200 ft. (61.0 m). Variable stub lengths are available on request. The stub cables are swivel-mounted, so you'll be sure to have easy access for either top or bottom feed frames.



Quick, Easy Installation

Before we send the 310/310M-Type Connector to you, we factory apply pair identification on the protector unit panel, cross-connect, test fields, and the front and rear fanning strips to reduce the time you need to spend field stenciling.

Versatility

For easy termination of pair-gain systems, you can choose a stubless 310/310M-Type Connector, and for T1 Carriers, we offer dual 50-pair stubs. Factory preconnectorized versions using either 710 or 711 Splicing Connectors are also available. In addition, the enhanced 310/310M-Type Connector offers:

- Improved pair identification between test, crossconnect and protector unit fields.
- High density which permits an 800 pair vertical arrangement in only 75 inches of mounting space for low profile environments.
- Positive interlocking for vertical alignment and mounting stability.
- Protector panel "Gridwork" divider which provides a guide for easy insertion, removal and identification of the protector units.

Simplified Operations

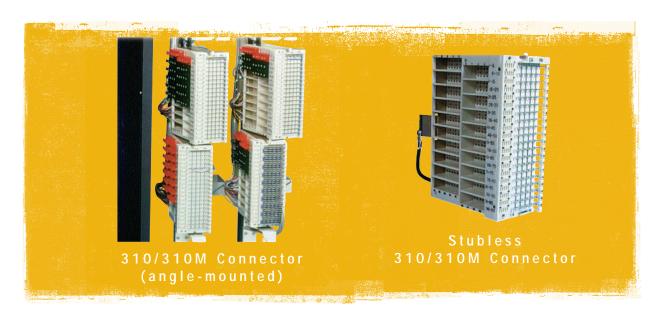
Front-facing test and cross-connect fields make testing and day-to-day operations easier. We have designed the 310/310M-Type Connector to use the T-test connector for multiple pair access to help reduce test effort. To facilitate jumper running, we have built in snapthrough primary and secondary cross-connect fanning strips. An optional 29A Isolated Ground Kit is available for 310/310M environments requiring non-frame derived ground systems, such as some independent telephone companies, private networks and federal systems projects. The kit also eliminates the need for non-conductive mounting insulators.

Compatibility

The 310/310M-Type Connector accommodates 3-, 4- or 7-Type unit protectors, recognized industry standards, so you won't have to worry about fit or compatibility.

Modernization

The 310/310M-Type Connector provides a direct replacement for the 305-Type Connector, allowing you to modernize existing frames — easily and quickly.



310-Type Connector Specifications (Standard)

Code	Cross-Connect Terminal Type	Quantity/Pair Size	Stub Cable Gauge	Mounting Direction	Application
310A2-100	Wire-wrap	1–100	24 (.51 mm)	Down/Up	OSP Facility Pairs
310B2-100	Wire-wrap	1–100	22 (.64 mm)	Down/Up	OSP Facility Pairs
310E1-100	Wire-wrap	0		No Stub	Pair Gain Systems
310B1-50	Wire-wrap	2-50	22 (.64 mm)	Down	T1 Carrier
310D1-50	Wire-wrap	2-50	22 (.64 mm)	Up	T1 Carrier
310TBA1-100	Bifurcated Quick Cli	р 1–100	24 (.51 mm)	Down/Up	OSP Facility Pairs
310TBB1-100	Bifurcated Quick Cli	р 1–100	22 (.64 mm)	Down/Up	OSP Facility Pairs
310TBE1-100	Bifurcated Quick Cli	р 0		No Stub	Pair Gain Systems
310BWA1-100	Bifurcated Wire-wra	р 1–100	24 (.51 mm)	Down/Up	OSP Facility Pairs
310BWB1-100	Bifurcated Wire-wra	р 1–100	22 (.64 mm)	Down/Up	OSP Facility Pairs
310BWE1-100	Bifurcated Wire-wra	p 0		No Stub	Pair Gain Systems

Enhanced Design 310-Type Connector Specifications* (Angled Mounting Orientation)

Code	Cross-Connect Terminal Type	Quantity/Pair Size	Stub Cable Gauge	Mounting Direction	Application
310MA1-100	Single Wire-Wrap	1–100	24 (.51 mm)	Down/Up	OSP Facility Pairs
310MB1-100	Single Wire-Wrap	1–100	22 (.64 mm)	Down/Up	OSP Facility Pairs
310ME1-100	Single Wire-Wrap	0		No Stub	Pair Gain Systems
310MBWA1-100	Bifurcated Wire-Wra	р 1–100	24 (.51 mm)	Down/Up	OSP Facility Pairs
310MBWB1-100	Bifurcated Wire-Wra	р 1–100	22 (.64 mm)	Down/Up	OSP Facility Pairs
310MBWE1-100	Bifurcated Wire-Wra	р 0		No Stub	Pair Gain Systems
310MTBA1-100	Bifurcated Quick-Cli	ip 1–100	24 (.51 mm)	Down/Up	OSP Facility Pairs
310MTBB1-100	Bifurcated Quick-Cli	ip 1–100	22 (.64 mm)	Down/Up	OSP Facility Pairs
310MTBE1-100	Bifurcated Quick-Cli	ip 0		No Stub	Pair Gain Systems

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Ordering Information

310 Type Conductor				
Product Code	Description	Stub Length	Material ID (Comcode)	
24 AWG (.51 mm) Cable Stubs, 100 Pair Capacity/Swivel Mounted Stub Single Wire-Wrap (SWW)				
310A2-100-30	Connector	30' (9.1 m)	103 760 872	
310A2-100-50	Connector	50' (15.2 m)	103 868 972	
310A2-100-80	Connector	80' (24.4 m)	103 868 980	
310A2-100-100	Connector	100' (30.5 m)	103 868 998	
310A2-100-150	Connector	150' (45.7 m)	103 869 004	
310A2-100-200	Connector	200' (61.0 m)	103 869 012	
22 AWG (.64 mm) Cable Stubs, 100 Pair Capacity/Swivel Mounted Stub Single Wire-Wrap (SWW)				
310B2-100-30	Connector	30' (9.1 m)	103 760 880	
310B2-100-50	Connector	50' (15.2 m)	103 869 020	
310B2-100-80	Connector	80' (24.4 m)	103 869 038	
310B2-100-100	Connector	100' (30.5 m)	103 869 046	
310B2-100-150	Connector	150' (45.7 m)	103 869 053	
310B2-100-200	Connector	200' (61.0 m)	103 869 061	
Stubless				
310E1-100 (SWW)	Connector		103 551 867	
24 AWG (.51 mm) Cable Stub Bifurcated Quick Clip (BQC)	s, 100 Pair Capacity/Swivel	Mounted Stub		
310TBA1-100-30	Connector	30' (9.1 m)	103 749 552	
310TBA1-100-50	Connector	50' (15.2 m)	103 731 444	
B10TBA1-100-100	Connector	100' (30.5 m)	103 731 469	
310TBA1-100-150	Connector	150' (45.7 m)	103 731 477	
310TBA1-100-200	Connector	200' (61.0 m)	103 731 485	
22 AWG (.64 mm) Cable Stubs, 100 Pair Capacity/Swivel Mounted Stub Bifurcated Quick Clip (BQC)				
310TBB1-100-50	Connector	50' (15.2 m)	103 731 493	
310TBB1-100-80	Connector	80' (24.4 m)	103 731 501	
310TBB1-100-100	Connector	100' (30.5 m)	103 731 519	
310TBB1-100-150	Connector	150' (45.7 m)	103 731 527	
Stubless				
310TBE1-100 (BQC)	Connector		103 749 594	
24 AWG (.51 mm) Cable Stub Bifurcated Wire-Wrap (BWW)	2 0	Mounted Stub		
310BW-A1-100-30	Connector	30' (9.1 m)	104 187 844	
310BW-A1-100-50	Connector	50' (15.2 m)	104 287 255	
310BW-A1-100-80	Connector	80' (24.4 m)	104 287 263	
310BW-A1-100-100	Connector	100' (30.5 m)	104 287 271	
310BW-A1-100-150	Connector	150' (45.7 m)	104 287 289	
310BW-A1-100-200	Connector	200' (61.0 m)	104 287 297	
22 AWG (.64 mm) Cable Stub Bifurcated Wire-Wrap (BWW)	1 3	Mounted Stub		
310BW-B1-100-30	Connector	30' (9.1 m)	104 187 851	
310BW-B1-100-50	Connector	50' (15.2 m)	104 287 305	
310BW-B1-100-80	Connector	80' (24.4 m)	104 287 313	
310BW-B1-100-100	Connector	100' (30.5 m)	104 287 321	
310BW-B1-100-150	Connector	150' (45.7 m)	104 287 339	
310BW-B1-100-200	Connector	200' (61.0 m)	104 287 347	

Ordering Information (continued)

310 Type Conductor				
Product Code	Description	Stub Length	Material ID (Comcode)	
Stubless			(======================================	
310BW-E1-100 (BWW)	Connector		104 187 869	
Dual 22 AWG (.64 mm) Cable Stubs, 50 Pair Capacity Each (Transmit & Receive) Down Mounted Stub				
310B1 50-30	Connector	30' (9.1 m)	103 655 999	
310B1-50-100	Connector	100' (30.5 m)	103 725 354	
Dual 22 AWG (.64 mm) Cable Stubs, Up Mounted Stub	50 Pair Capacity Each (Tra	ansmit & Receive)		
310D1-50-50	Connector	50' (15.2 m)	103 725 388	
310D1-50-100	Connector	100' (30.5 m)	103 725 404	
310M Type Conductor				
Stubless/Angled Mounting				
310ME1-100 (SWW)	Connector	_	104 401 591	
310MBW-EA-100 (BWW)	Connector	_	104 407 291	
310MTB-E1-100 (BQC)	Connector	_	104 407 325	
310MA1-100-30	Connector	30' (9.1 m)	104 401 575	
310MA1-100-50	Connector	50' (15.2 m)	105 267 454	
310MA1-100-80	Connector	80' (24.4 m)	105 267 462	
310MA1-100-100	Connector	100' (30.5 m)	105 267 470	
310MA1-100-150	Connector	150' (45.7 m)	105 267 488	
310MA1-100-200	Connector	200' (61.0 m)	105 267 496	
Bifurcated Wire-Wrap (BWW)				
310MBWA1-100-50	Connector	50' (15.2 m)	105 314 371	
310MBWA1-100-80	Connector	80' (24.4 m)	105 314 389	
310MBWA1-100-100	Connector	100' (30.5 m)	105 314 397	
310MBWA1-100-150	Connector	150' (45.7 m)	105 314 405	
Bifurcated Quick Clip (BQC)				
310MTBA1-100-30	Connector	30' (9.1 m)	104 407 309	
310MTBA1-100-50	Connector	50' (15.2 m)	105 315 055	
310MTBA1-100-80	Connector	80' (24.4 m)	105 315 063	
310MTBA1-100-100	Connector	100' (30.5 m)	105 315 071	
22 AWG (.64 mm) Cable Stubs, 100 Pair Capacity/Swivel Mounted Stub/Angled Mounting Single Wire-Wrap (SWW)				
310MB1-100-30	Connector	30' (9.1 m)	104 401 583	
310MB1-100-50	Connector	50' (15.2 m)	105 267 504	
310MB1-100-80	Connector	80' (24.4 m)	105 267 512	
310MB1-100-100	Connector	100' (30.5 m)	105 267 520	
310MB1-100-150	Connector	150' (45.7 m)	105 267 538	
Bifurcated Wire-Wrap (BWW)				
310MBWB1-100-30	Connector	30' (9.1 m)	104 407 283	
310MBWB1-100-50	Connector	50' (15.2 m)	105 314 439	
310MBWB1-100-100	Connector	100' (30.5 m)	105 315 006	
Bifurcated Quick Clip (BQC)				
310MTBB1-100-50	Connector	50' (15.2 m)	105 315 105	
310MTBB1-100-80	Connector	80' (24.4 m)	105 315 113	
310MTBB1-100-100	Connector	100' (30.5 m)	105 315 121	



310/310M Connector rear-view with secondary fanning strip and cover



Distributing Frame Vertical Capacities

Distributing Frame Height		Quantity of 310/310M's Per Vertical	Quantity of Terminated Pairs	
(Feet)	(Meters)			
7.0	2.1 m	6	600	
8.0	2.4 m	8	800	
9.0	2.7 m	10	1000	
11.5	3.5 m	12	1200	

* Restrictions: When Distributing Frame is enlarged right-to-left, a vertical must be skipped if mounting the enhanced 310M Connector to the left of standard Avaya 305 or 310 Connectors.

Avava Reference Documents

Title	Document Number
310/310M Type Connectors Description, Use, Installation, and Repair Procedures	Avaya 201-208-113 also available as Avaya 636-330-110
Cable Terminating Apparatus, Selection, Distributing and Protector Frames	Avaya 201-208-050 also available as Avaya 636-300-099
3-, 4-, 5-, and 7-Type Protector Units Description, Use, Maintenance, and Test Procedures	Avaya 201-208-100 also available as Avaya 636-300-050
Distributing Frame Systems Products Manual (DFSPM)	Avaya 201-200-050, Issue 5 12/93

For more information on our products, please contact your Avaya Sales Representative or call 1-800-344-0223. You can also visit our website at http://www.avaya.com/connectivity

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