

DataPipe™

ANSI/TIA/EIA 568 Category 5e

ISO/IEC 11801

4 Twisted Pair Cable

Part Number: Plenum5E55/Non-Plenum5EN5

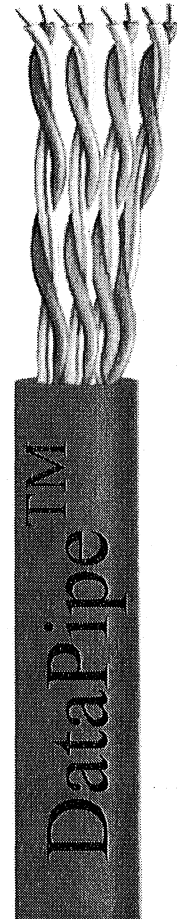
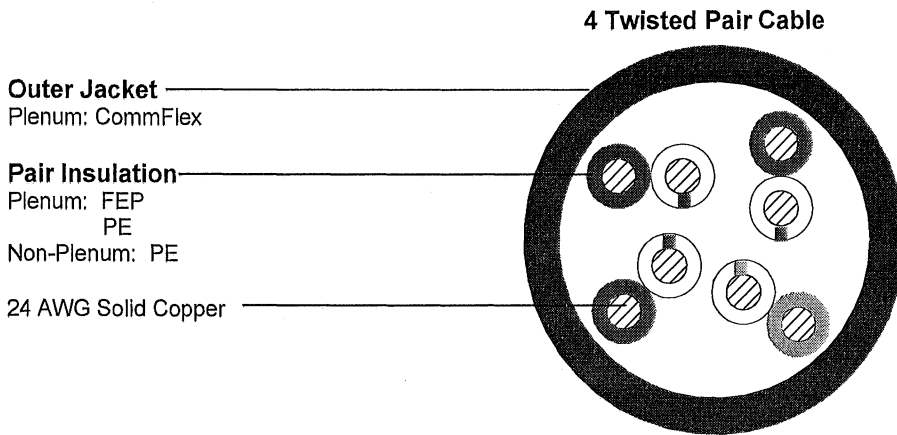
Plenum: ETL Type CMP,C(ETL)CMP

Non-Plenum: ETL Type CMR, C(ETL)CMG

ETL Verified Electrical Performance



1100 CommScope Place SE
 PO Box 1729
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 www.commscope.com



Pair Identification

Pair 1	Blue/White w/Co-Extruded Blue Stripe on White Single
Pair 2	Orange/White w/Co-Extruded Orange Stripe on White Single
Pair 3	Green/White w/Co-Extruded Green Stripe on White Single
Pair 4	Brown/White w/Co-Extruded Brown Stripe on White Single

Mechanical Specification	Plenum	Non-Plenum
Nominal Jacket OD	0.175"	0.200"
Nominal Jacket Thickness	0.016"	0.022"
Jacket Minimum Spot Thickness	0.012"	0.018"
Installation Temperature 0°C to 60°C		
Operation Temperature -20°C to 60°C		

Available Packaging: Reel in a box, Reel or Compak



Drawings not to Scale
 Specifications subject to change
 Revision: 11/17/08

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Electrical Performance

Frequency MHz	Attenuation (dB/100m) Max	Pair to Pair		Return Loss (dB) Min	ACR (dB) Min	Power Sum		
		NEXT (dB) Min	ELFEXT (dB/100m) Min			NEXT (dB) Min	ELFEXT (dB/100m) Min	ACR (dB) Min
.772	1.8	67.0	66.0	NA	65.2	64.0	63.0	62.0
1.0	2.0	65.3	63.8	20.0	63.3	62.3	60.8	60.3
4.0	4.1	56.3	51.7	23.0	52.2	53.3	48.7	49.2
8.0	5.8	51.8	45.7	24.5	46.0	48.8	42.7	43.0
10.0	6.5	50.3	43.8	25.0	43.8	47.3	40.8	40.8
16.0	8.2	47.3	39.9	25.0	39.0	44.3	36.7	36.0
20.0	9.2	45.8	37.7	25.0	36.5	42.8	34.7	33.5
25.0	10.4	44.3	35.8	24.3	33.9	41.3	32.8	30.9
31.25	11.7	42.9	33.9	23.6	31.2	39.9	30.9	28.2
62.5	17.0	38.4	27.8	21.5	21.4	35.4	24.8	18.4
100.0	22.0	35.3	23.8	20.1	13.3	32.3	20.8	10.3
155.0	28.1	32.5	19.9	18.8	4.4	29.5	16.9	1.4
200.0	32.4	30.8	17.7	18.0	NS	27.8	14.7	NS

(All tests include swept frequency measurements)

Characteristic Impedance	100 ohms ± 15%	
Capacitance	14 pF/ft nominal	
DC Resistance/Unbalance	28.6 ohms/1000' Max/5% Max	
Dielectric Breakdown	2500 Volts DC Conductor to Conductor	
Nom. Velocity of Propagation	FEP = 74% PE = 71%	
Maximum Skew	5E55 = 15ns @ 100 meters	5EN5 = 11ns @ 100 meters



Drawings not to Scale
Specifications subject to change
Revision: 11/17/08

MAX® FACEPLATES

MAX Modular Faceplates

- MX-FP-S-01-(XX).....Single gang faceplate for one MAX module
- MX-FP-S-02-(XX).....Single gang faceplate for two MAX modules
- MX-FP-S-03-(XX).....Single gang faceplate for three MAX modules

MX-FP-S-04-(XX).....Single gang faceplate for four MAX modules

10G 6A™ MAX Modular Faceplates

- 10GMX-FPS02-(XX)Single gang 10G faceplate for two 10G 6A MAX modules
- 10GMX-FPS04-(XX)Single gang 10G faceplate for four 10G 6A MAX modules

Use (XX) to specify color for all MAX faceplates:
20 = ivory, 80 = light ivory



MX-FP-S-02-(XX)



10GMX-FPS02-(XX)



MX-FP-S-04-(XX)



10GMX-FPS04-(XX)

MAX MODULES

10G 6A MAX Modules

- 10GMX-F(XX)Flat 10G 6A MAX module, T568A/B

MAX 6 Modules

- MX6-F(XX).....Flat category 6 MAX module, T568A/B

MAX 5e Modules

- MX5-F(XX).....Flat category 5e MAX module, T568A/B**

MAX Coax Modules

- MX-F-FA-(XX).....Flat MAX module with one 75 ohm F-type adapter**

All outlets include one red, one blue and one color matching icon for color coding

MAX Blanks

- MX-BL-(XX).....Blank module, bag of 10**

Use (XX) to specify color for all MAX modules:
20 = ivory, 80 = light ivory



10GMX-F(XX)



MX6-F(XX)



MX-F-FA-(XX)



MX5-F(XX)

CONNECTORS

RG6 F-Type Compression Connector

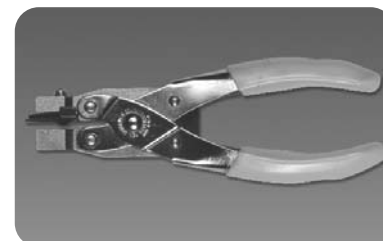
- RG6C.....RG6 F-Type compression connector

RG6 F-Type Compression Tool

- RG6C-T.....RG6 F-Type compression tool



RG6C



RG6C-T

MAX® Series Stainless Steel Faceplates:

Single and double gang stainless steel MAX faceplates for use with flat and angled MAX modules. Brushed finish on plates mask minor scratches and scuffs that may occur during day-to-day use.



MX-FP-S-(XX)-SSSingle gang stainless steel faceplate
 MX-FP-S-(XX)-SS-LSingle gang stainless steel faceplate with labels and label holders

MX-FP-D-(XX)-SSDouble gang stainless steel faceplate
 MX-FP-D-(XX)-SS-LDouble gang stainless steel faceplate with labels and label holders

Use (XX) to specify number of ports:
 01=1-port, 02=2-ports, 03=3-ports, 04=4-ports, 06=6-ports
 Faceplate includes mounting screws

Use (XX) to specify number of ports:
 06=6-ports, 08=8-ports, 12=12-ports

MAX Modular Furniture Adapters:

The MAX modular furniture adapter accepts 4 angled or flat MAX modules and snap directly into communication outlet openings* in most major modular furniture systems, including Steelcase, Hon Industries, Haworth, Kimball and DRG. Adapters include designation label and clear label cover to allow for circuit identification.

- MX-MFP-(XX).....Modular furniture adapter for standard openings including steelcase
- MX-MFP-KNL-(XX)Modular furniture adapter for Knoll Group openings (not available in white or ivory)
- MX-MFP-HME-(XX)Modular furniture adapter for Herman Miller Ethospace Beltline openings (not available in white or ivory)
- MX-MFP-HMA-(XX).....Modular furniture adapter for Herman Miller Action Office Series 2 and Ethospace base openings
- MX-MFP-AO3-(XX)Modular furniture adapter for Herman Miller Action Office Series 3 base opening



MAX Modular Furniture adapters mount into modular furniture openings, providing superior density with proper circuit designation.

Use (XX) to specify color: 01 = black, 02 = white, 04 = gray, 20 = ivory, 80 = light ivory

Note: For Herman Miller Action Office Series 3 152mm (6 in.) vertical panel, use our MX-FP-S-(XX)-(XX) to mount up to six MAX modules.

*Furniture outlet openings, panel thickness, and raceway clearance may vary.
 Please consult furniture manufacturer for actual dimensions to determine compatibility.

Tamper-Proof MAX Faceplate:

Siemon's tamper-proof MAX faceplates provide a secure, low profile solution for mounting our complete line of MAX modules. The design features a one-piece base which accepts up to six angled MAX modules and is secured by a solid cover and a choice of tamper-proof star or standard slotted head screw. The base mounts to any single gang outlet (including Siemon's fiber outlet box).

MX-TFP-S-06-(XX).....Single gang, tamper-proof faceplate for six angled MAX modules

Use (XX) to specify color: 01 = black, 02=white, 04=gray, 20 = ivory, 25 = bright white, 80=light ivory
 Faceplate includes mounting screws



Wall Phone Faceplates:

MX-WP-(XX)-SS.....MAX Series Stainless Steel Wall Phone Faceplate with Keystone MAX Module included

WPJPPlastic Wall Phone Faceplate with 4-pair USOC jack included

Use (XX) to specify wiring option:

K6 = Category 6, T568A/B

K5 = Category 5e, T568A/B

KU3 = 3-pair, 6-position USOC

KU4 = 4-pair, 8-position USOC



MX-WP-(XX)-SS



WPJP

ORDERING INFORMATION

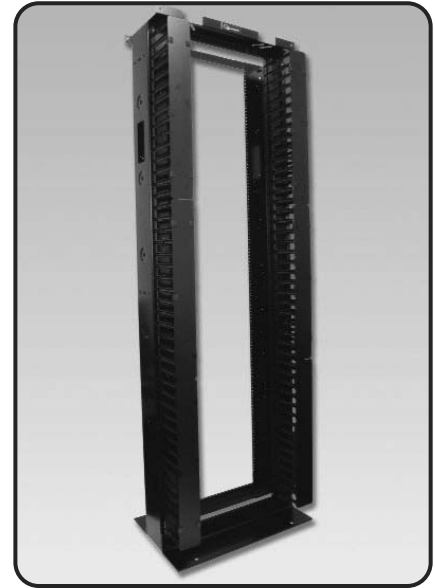
RS3 Cable Management Rack System:

- RS3-07** 2.1m x 0.48m (7 ft. x 19 in.)
 aluminum enhanced cable management rack system, 45 RMS. Includes rack assembly hardware, vertical cable management channels with hinged covers, and ground lug
- height: 2.1m (7 ft.)
 width: 685.0mm (27 in.)
 depth: 457.2mm (18 in.)

Add "-S" for steel.

Note: Aluminum racks are intended for use with connecting hardware and cable managers only. For mounting active equipment, steel racks are recommended.

Note: 1 RMS = 44.5mm (1.75 in.)

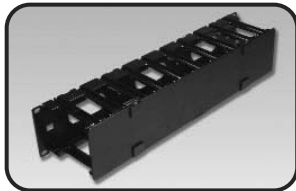


Related Products:

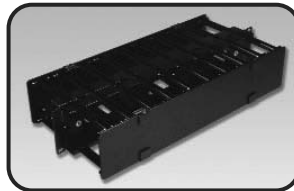
RS3 Series Horizontal Cable Managers

These new horizontal cable managers are designed for use with Siemon's RS3 series racks and use the same covered design as the vertical managers. The hinged front cover snaps easily over cable managers and provides a concealed routing patch into the vertical cable management of the RS3, providing a clean patching environment.

- RS3-RWM-2 Single-sided 19 in. cable manager, 2 RMS
- RS3-RWM-2DS Double-sided 19 in. cable manager, 2 RMS



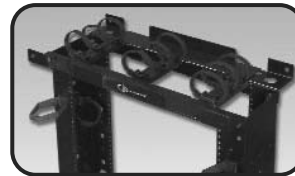
RS3-RWM-2



RS3-RWM-2DS



RS-P04



RS-TRAY



SCREW-1224

Rack Accessories

- RS-P04 1.2m (4 ft.) power strip for rear of rack, ten 15A outlets, resettable fuse (includes mounting hardware)
- RS-TRAY Rack top cable tray [includes roll of 9 black 457.2mm (18 in.) hook and loop cable managers and 9 quarter-turn mounting clips]
- SCREW-1224 #12-24 Slotted head screws with washers, black, bag of 200

CABLE MANAGER CAPACITY TABLE

The following capacity table is provided for planning purposes. The values shown reflect a combination of actual and calculated capacity and represent a 100% fill. These values were derived using properly dressed cables and can be adversely affected by poor cable routing practices.

PART NUMBER	CABLE DIAMETER (SQ. IN.)								
	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31
HORIZONTAL MANAGERS									
RS3-RWM-2	332	258	207	169	141	119	102	88	77
RS3-RWM-2DS	332	258	207	169	141	119	102	88	77
RACKS & VERTICAL CABLE MANAGERS									
RS3 (Channel)	834	649	519	425	354	300	257	223	195
RS3 (Front)	527	410	329	269	224	190	162	141	123

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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S110[®] Wiring Block

Siemon's S110[®] field termination blocks combine category 5e performance with unparalleled installation features, and are ideal for use in cross-connect and consolidation point applications.

25-, 50-, 75-, and 100-pair blocks are available without legs for mounting directly to walls. If cable routing is required behind the blocks, 50-, 100-, 200- and 300-pair sizes are available with mounting legs. The 50- and 100-pair sizes offer detachable mounting legs to assist in routing cables behind blocks during and after installation.

The 100-pair blocks (also used in 200- and 300-pair sizes) have been enhanced to add additional strength to assist when terminating cables using blocks with legs.

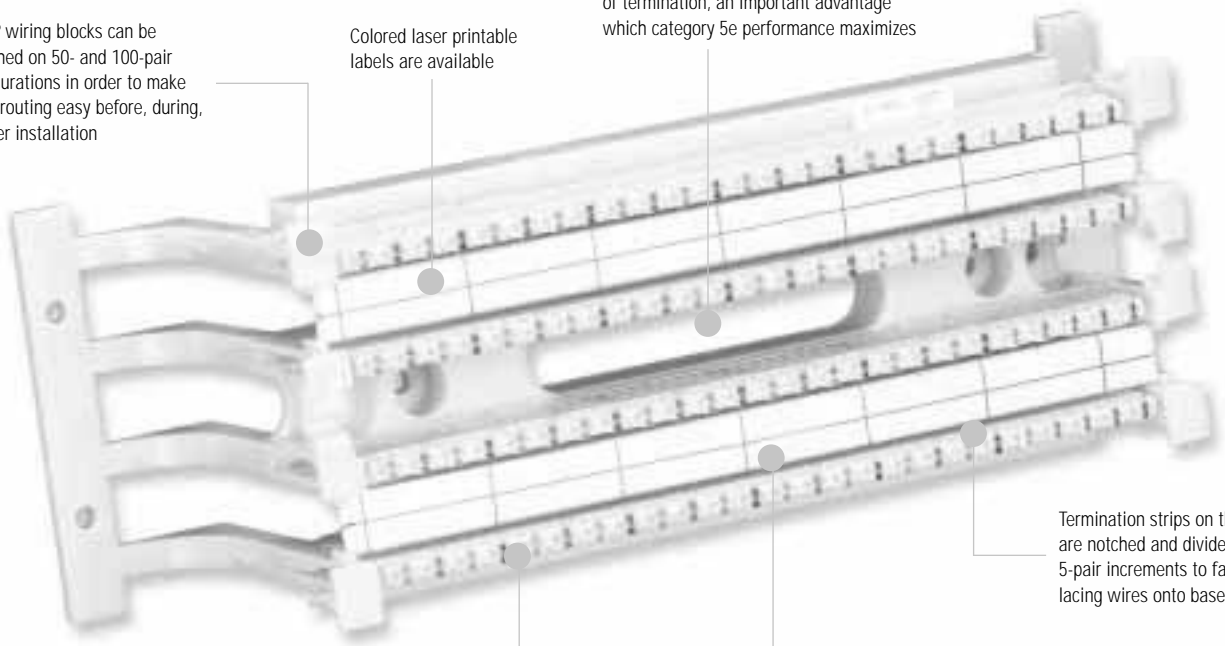
PATENTED ENHANCED



S110[®] wiring blocks can be detached on 50- and 100-pair configurations in order to make cable routing easy before, during, or after installation

Colored laser printable labels are available

Cable access openings in the wiring block enable cables to be fed directly to the point of termination, an important advantage which category 5e performance maximizes

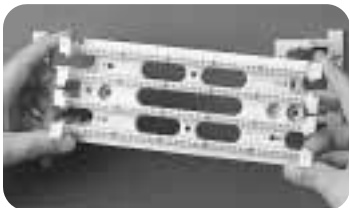


Termination strips on the base are notched and divided into 5-pair increments to facilitate lacing wires onto base

Color-coded pairs on each block

Designation strip with interchangeable colored labels can be mounted in the center and/or the outside positions of the wiring block. Each label has 2-, 3-, 4-, or 5-pair markings

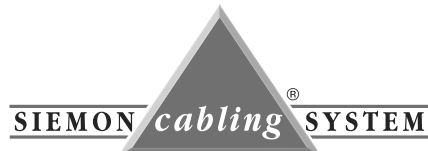
S110[®] connecting blocks come in 2-, 3-, 4-, or 5-pairs



The tabs for removing the detachable legs on the 100-pair block are located on the face of the block to simplify removal

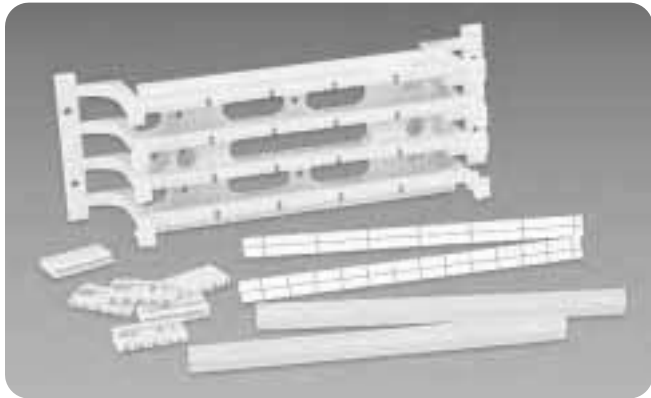


1 or 2 RMS S110[®] cable managers can be ordered with or without mounting legs. Optional covers are available separately for 50- and 100-pair sizes



Ordering Information

S110® Field Termination Kits:



Complete S110® installation kits are available which include S110® wiring blocks with detachable legs*, S110® connecting blocks, and label holders with white designation labels.

*Legs detachable on 50- and 100-pair version only.

- S110A(X)1-50FT50-pair S110® field termination kit
- S110A(X)2-100FT100-pair S110® field termination kit
- S110A(X)2-300FT300-pair S110® field termination kit**

Use (X) to specify the connecting blocks:

- A = S110C-5, 5-pair connecting blocks
- B = S110C-4, 4-pair connecting blocks**
- C = S110C-3, 3-pair connecting blocks
- D = S110C-2, 2-pair connecting blocks

Each kit includes adequate connecting blocks to complete each 25-pair termination strip on the S110® wiring block (e.g. S110AB2-100FT) would include five 4-pair and one 5-pair connecting block per 25-pair termination strip, or a total of twenty 4-pair and four 5-pair connecting blocks)

S110® Connecting Blocks:

- S110C-2A2-pair connecting block, blue/orange
- S110C-2B2-pair connecting block, green/brown
- S110C-33-pair connecting block, blue/orange/green
- S110C-44-pair connecting block, blue/orange/green/brown
- S110C-55-pair connecting block, blue/orange/green/brown/slate



S110C-2A



S110C-2B



S110C-3

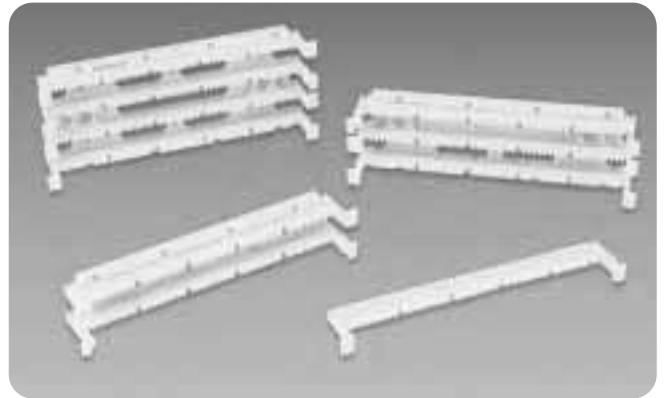


S110C-4



S110C-5

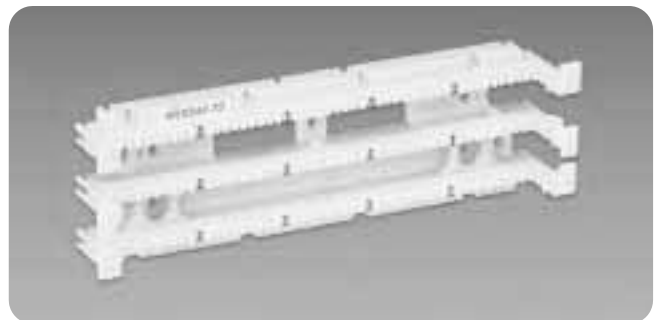
S110® Wiring Blocks Without Legs:



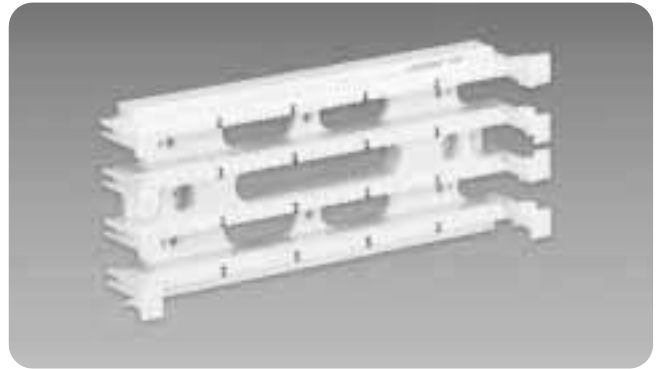
S110DW1-25.....25-pair, S110® wiring block



S110DW1-50.....50-pair, S110® wiring block



S110DW1-75.....75-pair, S110® wiring block



S110DW2-100.....100-pair, S110® wiring block

Related Products

S110° Test Adapters:

- TAP-110-U11-pair, USOC
- TAP-110-E22-pair, 10BASE-T
- TAP-110-UT2-pair, USOC/Token Ring
- TAP-110-U33-pair, USOC
- TAP-110-U44-pair, USOC
- TAP-110-T44-pair category 5, T568A
- TAP-110-A44-pair, category 5, T568B



S100A2 Wire Manager:

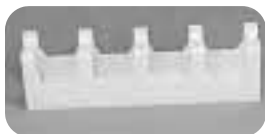
- S100A2.....Snap on S110° wire manager, white
- S100A2-01.....Snap on S110° wire manager, black



Wall Mount S110° Cable Managers:

- S110B1RMS.....White cable manager without legs, 1 RMS
- S110B2RMS.....White cable manager without legs, 2 RMS
- S110A1RMS.....White cable manager with legs, 1 RMS
- S110A2RMS.....White cable manager with legs, 2 RMS

Note: 1 RMS = 44.5mm (1.75 in.)



S110B1RMS



S110A1RMS



S110B2RMS



S110A2RMS

Tools:

- S788J15-pair termination tool
- S788J5B.....Replacement cutting blades for 5-pair tool
- S788J5H.....Replacement head for 5-pair impact tool
- S788J44-pair termination tool
- S788J4B.....Replacement cutting blades for 4-pair tool
- S788J4H.....Replacement head for 4-pair impact tool



S110° Cable Assemblies:

- S110P1-P1-(XX).....1-pair, double-ended S110° patch cord
 - S110P2-P2-(XX).....2-pair double-ended S110° patch cord
 - S110P3-P3-(XX).....3-pair double-ended S110° patch cord
 - S110P4-P4-(XX).....Category 5e compatible, 4-pair double-ended S110° patch cord
 - S110P4-T4-(XX).....Category 5e compatible, 4-pair S110°-to-modular plug, T568A
 - S110P4-A4-(XX).....Category 5e compatible, 4-pair S110°-to-modular plug, T568B
 - S110P1-U1-(XX).....1-pair, S110°-to-modular plug, USOC
 - S110P2-E2-(XX).....2-pair, S110°-to-modular plug, 10BASE-T
 - S110P2-UT-(XX).....2-pair, S110°-to-modular plug, Token Ring
- Use (XX) to specify length: 03 = 0.91m (3 ft.), 05 = 1.5m (5 ft.), 07 = 2.13m (7 ft.), 10 = 3.05m (10 ft.), 15 = 4.57m (15 ft.), 20 = 6.10m (20 ft.), 25 = 7.65m (25 ft.)

Custom lengths, colors and wiring configurations available upon request.



S110° Patch Plugs:

- S110P1.....Field-terminated, 1-pair, S110° patch plug
- S110P2.....Field-terminated, 2-pair, S110° patch plug with red and blue oval icon
- S110P3.....Field-terminated, 3-pair, S110° patch plug with red and blue oval icon
- S110P4.....Category 5e, field-terminated, 4-pair, S110° patch plug with red and blue oval icon



S110P1



S110P3



S110P2



S110P4

For related product information request Spec Sheet(s):

- S110° Tap® Test Adapter (PROD-SS-TAP)
- S110° Disconnect System (PROD-SS-10T)
- S110° Category 5e Modular Jack Panel (PROD-SS-10J)
- S110° Rack Mount Series (PROD-SS-10W)
- S110° Category 5 Patch Plug (PROD-SS10P)

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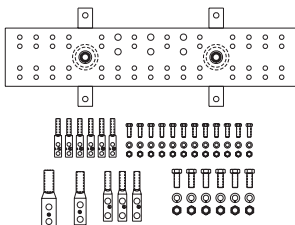
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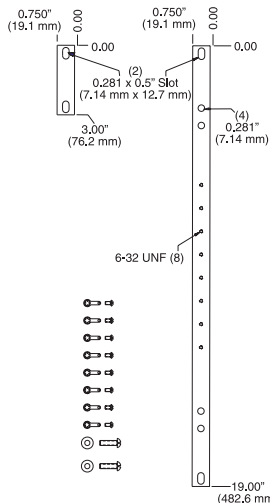
40158-020 Shown

Busbar Assemblies With Lug Kits

Busbar Assemblies with Lug Kits contain the CPI 13622 series Telecommunications Grounding Busbar (TGB) or the CPI 40153 series Telecommunications Main Grounding Busbar (TMGB) along with required stainless steel hardware to fasten the two-hole ground lugs to the Busbar.

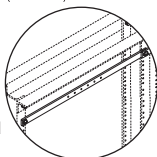
- #6 lugs are 2-hole lugs with 1/4" hardware
- #2, 2/0 and 4/0 lugs are 2-hole lugs with 3/8" hardware
- UL Listed

Part Number	Description	Size	#6 Lug	#2 Lug	2/0 Lug	4/0 Lug	Shipping Weight
40156-012	TGB Pattern	2"W x 1/4"H x 12"L (50 mm x 6.4 mm x 300 mm)	6 ea	3 ea	1 ea	0	5 lb (2.3 kg)
40158-012	TMGB Pattern	4"W x 1/4"H x 12"L (100 mm x 6.4 mm x 300 mm)	6 ea	3 ea	1 ea	1 ea	8 lb (3.6 kg)
40158-020	TMGB Pattern	4"W x 1/4"H x 20"L (100 mm s 6.4 mm x 510 mm)	6 ea	3 ea	1 ea	1 ea	11 lb (5.0 kg)



19" rack width Busbar shown

Shown mounted to rack



Horizontal Rack Busbar

Horizontal Rack Busbar for consolidating equipment grounds. Constructed of 3/16"-thick x 3/4"H (4.763 mm x 19.1 mm) hard-drawn electrolytic tough pitch 110 alloy copper bar with eight #6-32 tapped lug mounting holes on 1" (25.4 mm) centers and two pairs of 5/16" (7.938 mm) diameter holes spaced 3/4" (19.1 mm) apart for attaching ground jumpers.

- Other configurations available on request
- UL Listed

Part number consists of Busbar and a hardware kit that includes:

- (1) splice plate bar, 3" L (80 mm)
- (2) #12-24 copper machine screws
- (2) #12 copper flat washers
- (8) #6-32 copper machine screws
- (8) #6 ring terminals

Part Number	Description	Rack Width	Shipping Weight
10610-019	Horizontal Rack Busbar	19"	2 lb (0.9 kg)
10610-023	Horizontal Rack Busbar	23"	3 lb (1.4 kg)
10610-035	Horizontal Rack Busbar	35"	4 lb (1.8 kg)