

Crestron **MP-WP Series**
Media Presentation Wall Plates
Installation Guide



Further Inquiries

If you cannot locate specific information or have questions after reviewing this guide, please take advantage of Crestron's award winning customer service team by calling Crestron at 1-888-CRESTRON [1-888-273-7876]. For assistance in your region, please refer to the Crestron Web site (www.crestron.com) for a listing of Crestron worldwide offices.

You can also log onto the online help section of the Crestron Web site (www.crestron.com/onlinehelp) to ask questions about Crestron products. First-time users will need to establish a user account to fully benefit from all available features.

Future Updates

As Crestron improves functions, adds new features and extends the capabilities of the MP-WP Series, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron Web site periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

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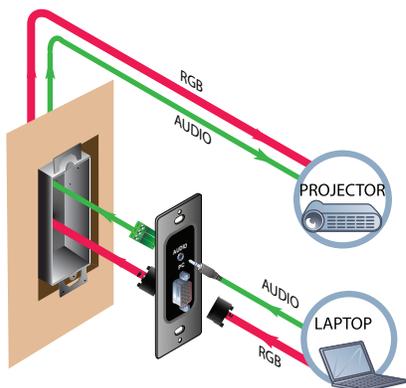
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Specifications subject to
change without notice.

DESCRIPTION

Media Presentation Wall Plates complete the total Crestron® package, ensuring end-to-end Crestron quality for every installation. A range of wall plates is offered to support all types of analog and digital video, audio, and control signals.

The wall plates are 1-gang standard electrical box mountable; fit off-the-shelf decorative face plates; can be ganged for custom wall, lectern, and rack mount applications; and are available in black, white, or almond.

Typical Application (MP-WP130 Shown)



Media Presentation Wall Plate Models

MODEL	DESCRIPTION
MP-WP100	Three gold-plated RCA connectors, color-coded and labeled for composite video and stereo audio. Bulkhead type feed-thru connectors are used, providing female RCA connections at the rear.
MP-WP110	One gold-plated 4-pin mini-DIN connector and two gold-plated RCA connectors, color-coded and labeled for S-video and stereo audio. Bulkhead type feed-thru connectors are used, providing female mini-DIN and RCA connections at the rear.
MP-WP120	Five gold-plated RCA connectors, color-coded and labeled for component video and stereo audio. Bulkhead type feed-thru connectors are used, providing female RCA connections at the rear.
MP-WP125	Eight gold-plated RCA connectors, color-coded and labeled for separate component and composite video and stereo audio. Bulkhead type feed-thru connectors are used, providing female RCA connections at the rear.
MP-WP130	One female DB15HD connector (i.e., HD-15, DE-15) and one 1/8" mini-TRS connector, labeled for computer VGA and stereo audio. A bulkhead type feed-thru connector is used, providing a female DB15HD connection at the rear. Audio wiring is connected via a 3-pin terminal block.
MP-WP131	One female DB15HD connector (i.e., HD-15, DE-15) and one 1/8" mini-TRS connector, labeled for computer VGA and stereo audio. A 12" breakout cable assembly at the rear provides five BNC connections. Audio wiring is connected via a 3-pin terminal block.
MP-WP140	One Dual Link DVI-I connector and one 1/8" mini-TRS connector, labeled for DVI and stereo audio. A bulkhead type feed-thru connector is used, providing a female DVI-I connection at the rear. Audio wiring is connected via a 3-pin terminal block.
MP-WP150	One Type A HDMI® connector and one 1/8" mini-TRS connector labeled for HDMI and stereo audio. A bulkhead type feed-thru connector is used, providing a female HDMI connection at the rear. Audio wiring is connected via a 3-pin terminal block.
MP-WP152	One Type A HDMI connector. A bulkhead type feed-thru connector is used, providing a female HDMI connection at the rear.
MP-WP160	One DisplayPort connector and one 1/8" mini-TRS connector, labeled for DisplayPort and stereo audio. A bulkhead type feed-thru connector is used, providing a female DisplayPort connection at the rear. Audio wiring is connected via a 3-pin terminal block.
MP-WP162	One DisplayPort connector. A bulkhead type feed-thru connector is used, providing a female DisplayPort connection at the rear.
MP-WP180	One female 8-pin RJ-45 connector, and one 4-pin 3.5mm detachable terminal block, labeled for QuickMedia® and Cresnet®, respectively. Bulkhead type connectors are used, providing a female RJ-45 and detachable terminal block connections at the rear.
MP-WP181	One female 8-pin RJ-45 connector labeled for DigitalMedia 8G™. Punch-down terminals at the rear facilitate installation using DM-CBL-8G DigitalMedia 8G Cable.
MP-WP183	One female 8-pin RJ-45 connector labeled for Ethernet. A bulkhead type connector is used, providing a female RJ-45 connection at the rear.
MP-WP185	Two female 8-pin RJ-45 connectors, and one 4-pin 3.5mm detachable terminal block, labeled for DigitalMedia™. A combination of punch-down and screw terminal connections at the rear of the wall plate facilitate installation using DM-CBL DigitalMedia Cable.
MP-WP186	Two female SC type optical fiber connectors, labeled for DigitalMedia. Bulkhead type feed-thru connectors are used, providing female SC connections at the rear, for installation using CresFiber® Fiber Optic Cable or equivalent.
MP-WP187	A single female SC type optical fiber connector, labeled for DigitalMedia. Bulkhead type feed-thru connector are used, providing female SC connection at the rear, for installation using CresFiber Fiber Optic Cable or equivalent.
MP-WP190	One 4-pin 3.5mm detachable terminal block, labeled for Cresnet control. A paralleled terminal block connection is provided at the rear.

INSTALLATION

Installation of the Media Presentation Wall Plates consists of the following:

1. Select an appropriate wall plate location (wall, furniture, rack panel).
2. Using the supplied template, cut a hole in the mounting surface.
3. Install required electrical box*.
4. Run and terminate cables. Refer to the wiring information on this page as necessary.
5. Test cables prior to screwing down the wall plate.
6. Screw the wall plate to the electrical box.
7. Attach face plate to the mounting surface.

* Electrical box not included. 3-1/2" (89 mm) extra-deep electrical box or mud-ring recommended. Some cables and connectors may necessitate additional mounting depth.

NETWORK WIRING GUIDELINES

Crestron®. When wiring the Cresnet network, consider the following:

- Use Crestron Certified Wire.
- Use Crestron power supplies for Crestron equipment.
- Provide sufficient power to the system.

CAUTION: Insufficient power can lead to unpredictable results or damage to the equipment. Use the Crestron Power Calculator to help calculate how much power is needed for the system. (www.crestron.com/calculators).

NETWORK WIRING GUIDELINES (Continued)

DM Network. When wiring the DM network, consider the following:

NOTE: DMNet wiring and Cresnet wiring are not compatible.

For DigitalMediaCAT wiring, use DM-CBL or DM-CBL-8G DigitalMedia™ cable, as required. For complete wiring guidelines, refer to the latest revision of the Crestron DigitalMedia Design Guide (Doc. 4789) which is available from the Crestron Web site (www.crestron.com/dmresources).

QuickMedia. When wiring the QuickMedia network, consider the following:

NOTE: Do not untwist pairs of wires more than 1/3-1/2" (8-12 mm) when making a connection. The twists are critical to canceling out interference between the wires.

The aggregate cable length of a signal path originating at a QM transmitter and terminating at a QM receiver must not exceed 450 feet (137 meters).

PREPARING AND CONNECTING WIRES

Strip the ends of the wires approximately 1/2" (13 mm). Use care to avoid nicking the conductors. Twist together the ends of the wires that share a connection and tin the twisted connection. Apply solder only to the ends of the twisted wires. Avoid tinning too far up the wires or the end becomes brittle.

NOTE: It is not necessary to strip and tin wires for punch-down connection.

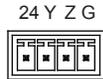
Refer to the following diagrams and instructions for specific wiring requirements.

DMNet Port Wiring



PIN #	SIGNAL	WIRE COLOR
24	+24V	Red
A	Data	Orange
B	Data	Grey
G	Ground	Black & Stranded

Cresnet Port Wiring

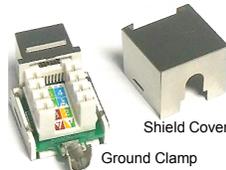


PIN #	SIGNAL	WIRE COLOR
24	+24V	Red
Y	Data	White
Z	Data	Blue
G	Ground	Black

RJ-45 Punch Down Wiring

6	4
3	5
8	2
7	1

PIN #	WIRE COLOR (EIA 568B)	PIN #	WIRE COLOR (EIA 568B)
6	Green	4	Blue
3	White/Green	5	White/Blue
8	Brown	2	Orange
7	White/Brown	1	White/Orange

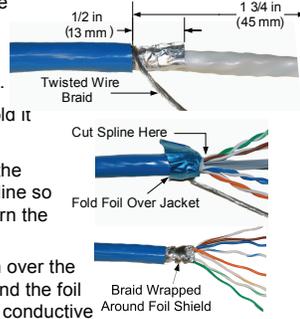


DigitalMedia Cable Termination

Terminate the DM-CBL DigitalMedia cable to the supplied interface connectors as follows:

- Strip 6 inches (153 mm) of the DigitalMedia Cable to expose the three inner cables.

- For the 'D' cable, strip the outer jacket 1 3/4 inch (45 mm) from the end. Gather and twist the braid.
 - Trim the foil shield to 1/2 inch (13 mm) and fold it back against the outer jacket of the cable.
 - Remove the white inner jacket and separate the twisted pairs to expose the spline. Cut the spline so that it is near flush with the outer jacket. Return the twisted pairs to their original position.
 - Fold the foil shield back to its original position over the wire pairs. Neatly wrap the twisted braid around the foil shield. Only the silver side of the foil shield is conductive



NOTE: The braid should wind neatly around the foil shield. Loose braid may cause shorts or difficulty completing assembly of the connector.

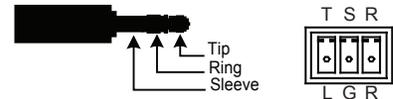
NOTE: Do not allow the twisted pairs to untwist for more than 1/2 inch (13 mm).

- Remove the shield cover from one of the supplied RJ-45 connectors. Place the CAT5/6 'D' cable so the area with the braid wrapped around the shield foil is positioned within the connector's ground clamp.
 - Starting with the terminals closest to the ground clamp, insert the twisted pairs and use a 110 tool to push them down. Refer to the above table for pin/color assignments.
 - If the 110 tool does not do so, trim the ends flush with the sides of the terminals; crimp the ground clamp over the cable shield, and replace the connector shield cover.
- For the 'M' cable, strip the outer jacket 1 3/4 inch (45 mm) from the end. Place the cable on the RJ-45 connector so the end of the outer jacket is positioned within the connector's ground clamp.
 - Repeat steps 2e and 2f for the 'M' cable, except crimp the ground clamp over the outer jacket to secure the cable in position.
 - For the DMNet cable, terminate the wires to the supplied 4-pin terminal block connector as shown in the DMNet Port Wiring table above.

DigitalMedia 8G Cable Termination

Terminate the DM-CBL-8G DigitalMedia cable following the same procedures as given for the DM-CBL 'D' cable in step 2 above, except for step 2b, since there is no inner jacket or spline.

Mini-TRS Connections



Ethernet Wiring



PIN #	WIRE COLOR	PIN #	WIRE COLOR
1	White/Orange	5	White/Blue
2	Orange	6	Green
3	White/Green	7	White/Brown
4	Blue	8	Brown

QuickMedia Wiring



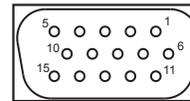
RJ-45 PIN NUMBER	WIRE COLORS (EIA 568B)	QM ASSIGNMENT: RGB
1	White/Orange	- RGB Red
2	Orange	+ RGB Red
3	White/Green	- RGB Green
4	Blue	+ Digital Audio
5	White/Blue	- Digital Audio
6	Green	+ RGB Green
7	White/Brown	- RGB Blue
8	Brown	+ RGB Blue

S-Video Wiring



PIN #	DESCRIPTION	PIN #	DESCRIPTION
1	Luminance Ground	3	Luminance
2	Chrominance Ground	4	Chrominance

VGA Wiring



PIN #	SIGNAL	PIN #	SIGNAL
1	Red Video	9	No Connection
2	Green Video	10	Ground
3	Blue Video	11	No Connection
4	Reserved	12	Monitor Sense
5	Ground	13	Horizontal Sync
6	Red Ground	14	Vertical Sync
7	Green Ground	15	Monitor Sense Clock
8	Blue Ground		

Return and Warranty Policies

Merchandise Returns / Repair Service

- No merchandise may be returned for credit, exchange or service without prior authorization from CRESTRON. To obtain warranty service for CRESTRON products, contact an authorized CRESTRON dealer. Only authorized CRESTRON dealers may contact the factory and request an RMA (Return Merchandise Authorization) number. Enclose a note specifying the nature of the problem, name and phone number of contact person, RMA number and return address.
- Products may be returned for credit, exchange or service with a CRESTRON Return Merchandise Authorization (RMA) number. Authorized returns must be shipped freight prepaid to CRESTRON, 6 Volvo Drive, Rockleigh, N.J. or its authorized subsidiaries, with RMA number clearly marked on the outside of all cartons. Shipments arriving freight collect or without an RMA number shall be subject to refusal. CRESTRON reserves the right in its sole and absolute discretion to charge a 15% restocking fee plus shipping costs on any products returned with an RMA.
- Return freight charges following repair of items under warranty shall be paid by CRESTRON, shipping by standard ground carrier. In the event repairs are found to be non-warranty, return freight costs shall be paid by the purchaser.

CRESTRON Limited Warranty

CRESTRON ELECTRONICS, Inc. warrants its products to be free from manufacturing defects in materials and workmanship under normal use for a period of three (3) years from the date of purchase from CRESTRON, with the following exceptions: disk drives and any other moving or rotating mechanical parts, pan/tilt heads and power supplies are covered for a period of one (1) year; touchscreen display and overlay components are covered for 90 days; batteries and incandescent lamps are not covered.

This warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer. Purchasers should inquire of the dealer regarding the nature and extent of the dealer's warranty, if any.

CRESTRON shall not be liable to honor the terms of this warranty if the product has been used in any application other than that for which it was intended or if it has been subjected to misuse, accidental damage, modification or improper installation procedures. Furthermore, this warranty does not cover any product that has had the serial number altered, defaced or removed.

This warranty shall be the sole and exclusive remedy to the original purchaser. In no event shall CRESTRON be liable for incidental or consequential damages of any kind (property or economic damages inclusive) arising from the sale or use of this equipment. CRESTRON is not liable for any claim made by a third party or made by the purchaser for a third party.

CRESTRON shall, at its option, repair or replace any product found defective, without charge for parts or labor. Repaired or replaced equipment and parts supplied under this warranty shall be covered only by the unexpired portion of the warranty.

Except as expressly set forth in this warranty, CRESTRON makes no other warranties, expressed or implied, nor authorizes any other party to offer any warranty, including any implied warranties of merchantability or fitness for a particular purpose. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supersedes all previous warranties.

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