

For more detailed installation and configuration instructions, refer to the *VG-Series Modero Touch Panels* instruction manual available on-line at [www.amx.com](http://www.amx.com).



**FIG. 1** 10 Foot NXA-MTC/RGB Combo Table Top Cable

### Overview of the Table Top Cable

The VG-Series of Modero Touch Panels (fitted with either an RGB Kit or upgraded with an optional NXA-RGBKIT (**FG2255-11**)) are shipped with a 10' (3.048 m) NXA-MTC/RGB Modero cable (CA2250-70) that supports RGB, Ethernet, Audio/Video, and Power connections. This cable (FIG. 1) comes terminated with three RJ45 connectors (Ethernet/AV/RGB) and a single 2-pin 3.5 mm mini-Phoenix connector (for power).

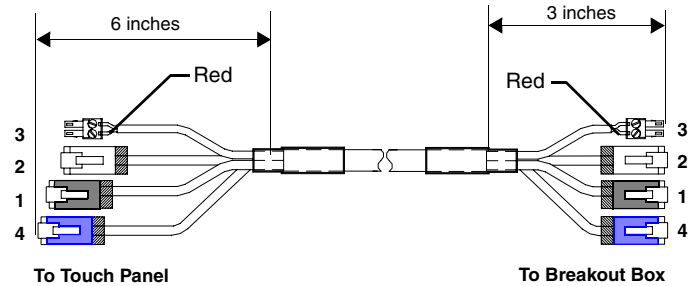
### Specifications

NXA-MTC/RGB Specifications	
<b>Dimensions:</b>	• Length: 10 feet (3.048 m)
<b>Connectors:</b>	<ul style="list-style-type: none"> <li>Ethernet RJ-45 connector (White) routes Ethernet signals between the touch panel and the AVB/RGB Breakout Box.</li> <li>Audio/Video RJ-45 connector (Black) routes differential audio/video signals between the touch panel and the box.</li> <li>RGB RJ-45 connector (Blue) routes RGB/Component video signals and touch control information to the RJ-45 RGB connector on the NXA-RGB card (internally installed in the panel). This connector routes VGA and Component video signals between the panel and the AVB/RGB Breakout Box.</li> <li>2-pin 3.5 mm mini-Phoenix power connector to route power from the external breakout box to the target panel.</li> </ul>
<b>Included Accessories:</b>	<ul style="list-style-type: none"> <li>One NXA-MTC/RGB Combo Table Top Cable (CA2250-70)</li> <li>One black tie wrap (used to join the Ethernet and Power cables)</li> </ul>
<b>Optional Accessories:</b>	<p><i>Note: All 1200V and VG-Series panels routing an Audio/Video signal from a breakout box must use the appropriate number of CAT5 Suppression Ferrites which are included as part of installation kits accompanying your particular Modero panel.</i></p> <p>Each of the following Installation Kits come with the appropriate number of CAT5 Suppression Ferrites.</p> <p><b>These ferrites must be installed onto the A/V RJ-45 cable.</b></p> <ul style="list-style-type: none"> <li>Installation Kit for 12" and 17" NXD panels (KA2251-01)</li> <li>Installation Kit for 15" NXD panels (KA2251-02)</li> <li>Installation Kit for 12" NXT panels (KA2251-03)</li> <li>Installation Kit for 15" and 17" NXT panels (KA2251-04)</li> </ul>

Associated Touch Panels (where used)	
FG2251-61RGB	NXD-1200VG RGB KIT, 12" MODERO WALLMOUNT RGB KIT
FG2250-61RGB	NXT-1200VG RGBKIT, 12" MODERO TABLETOP RGB KIT
FG2253-61RGB	NXD-1500VG RGB KIT, 15" MODERO WALLMOUNT RGB KIT
FG2252-61RGB	NXT-1500VG RGB KIT, 15" MODERO TABLETOP RGB KIT
FG2256-61RGB	NXD-1700VG RGB KIT, 17" MODERO WALLMOUNT RGB KIT
FG2257-61RGB	NXT-1700VG RGB KIT, 17" MODERO TABLETOP RGB KIT
FG2255-11	NXA-RGBKIT, RGB UPGRADE KIT FOR EXISTING VG PANELS

### Wiring and Connection Information

FIG. 2 shows a top view of the finished cable.



Connector 1 - used for Audio/Video (Black)	Connector 3 - used for Power
Connector 2 - used for Ethernet (White)	Connector 4 - used for RGB (Blue)

**FIG. 2** Finished NXA-MTC/RGB Table Top Cable - showing standard terminations

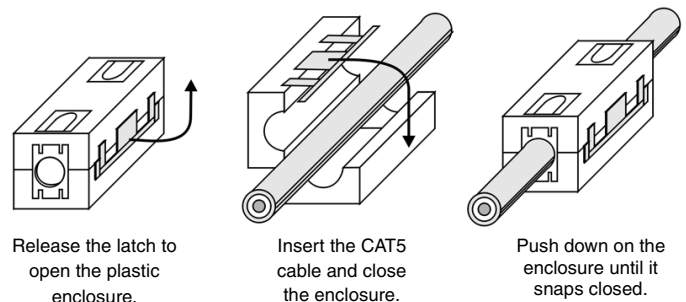
The following table provides the wiring information for each of the four (4) available connectors on each side of the NXA-MTC/RGB Tabletop Cable.

Wire Table				
Wire	Connector 1	Connector 2	Connector 3	Connector 4
1	White/Orange	White/Orange	Red	White/Orange
2	Orange/White	Orange/White	Black	Orange/White
3	White/Green	White/Green	-	White/Green
4	Blue/White	Blue/White	-	Blue/White
5	White/Blue	White/Blue	-	White/Blue
6	Green/White	Green/White	-	Green/White
7	White/Brown	White/Brown	-	White/Brown
8	Brown/White	Brown/White	-	Brown/White

### Installing the CAT5 Suppression Ferrite

Before connecting the RJ-45 cables to the Modero Touch Panel, install the necessary number of CAT5 Suppression Ferrites (FIG. 3) to the RJ-45 Audio/Video cable. These ferrites come as part of the Installation Kits mentioned in the adjacent Specification table.

**No tools are required for this installation.**



**FIG. 3** Installing the CAT5 Suppression Ferrites on the Black A/V RJ-45 cable

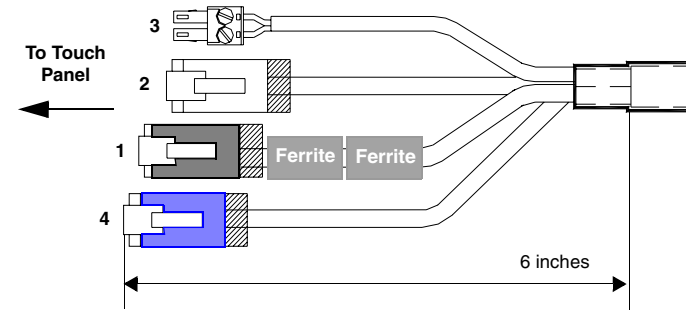
**Note:** All 1200V-Series and VG-Series panels require the installation of an appropriate number of CAT5 Suppression Ferrites when they use an RJ-45 cable to feed an A/V signal from the NXA-AVB/RGB Breakout Box.

- The CAT5 Suppression Ferrite is housed within a plastic enclosure (shown in FIG. 3) with a latch release on one side. Pull to release the latch and open the enclosure.
- Grasp the Black RJ-45 Audio/Video cable being connected to the panel. This end of the cable is longer than the other which connects to the breakout box (6 inches vs 3 inches). Refer to FIG. 4 for more detailed information.

3. Insert the panel-end of the Black RJ-45 Audio/Video cable into the groove along the inside of the enclosure.

**Note: The CAT5 Suppression Ferrites MUST be installed onto the cable connected to the Modero's Audio/Video RJ-45 connector (just behind the connector).**

4. Snap the enclosure shut with the cable inside, and you're done.
5. Repeat this process again **only** when installing an additional CAT5 Suppression Ferrite (*model specific*).



Connector 1 - used for Audio/Video (Black)	Connector 3 - used for Power
Connector 2 - used for Ethernet (White)	Connector 4 - used for RGB (Blue)

**FIG. 4** Ferrite connector location on Audio/Video RJ-45 cable