

General

This instruction sheet provides the procedures for installing and cabling the wall-mount digital distributing frame (DDF) system panel and panel assemblies.

The DDF wall-mount panel can accommodate eight DDF and two digital distributing interface (DDI) blocks (for a total of eight circuits). An empty version of the panel is also available for customized capacity. The DDF and DDI blocks can be ordered separately for the empty panel.

single high density connectors on the AMDF side and color coded pairs for the subscriber and network side.

How to Contact Us

- To find out more about **Carrier Apparatus** products, visit us on the web at: <http://cw.commscope.com/>
- For technical assistance regarding Carrier Apparatus products: contact your local CommScope account representative or CommScope technical support at 1-800-344-0223.
- Report any missing or damaged parts to CommScope customer service in Omaha, Nebraska, at 1-866-539-2795.

References

- 365-301-136, *Digital Distributing Frame (DDF) System Reference Guide*
- 365-301-136-1, *Digital Distributing Frame (DDF) Panel and Module Installation Instructions*

Tools Required

- Cable Stripper
- Wire-wrap gun, with minimum 5-inch (127 mm) extension bit
- Spudger
- Flat-blade 0.2-inch (5 mm) wide, 6-inch (152 mm) long screwdriver
- Screw-starter
- Cable ties and/or Lacing Cord
- Wire Stripper
- Pliers.

Ordering Information

Application	Apparatus Code	Material ID	Description
DDF (Wall Mount)	DDF-1B13-8/5-BNC	107 540 429	Eight-circuit wall-mount panel assembly 5 inch H by 14.5 inch W by 3 inch D (130 mm by 370 mm by 75 mm), eight DDF blocks.
	DDF-1B13-8/5-EMP	107 540 411	Empty wall-mount panel 5 inch H by 14.5 inch W by 3 inch D (130 mm by 370 mm by 75 mm), no DDF blocks.
DDF	DDF-1B-01	107 538 597	DDF Module (one circuit)
DDI	DDI-BAL 8A1-BNC	106 655 368	DDI Balun Block with eight terminations (four circuit)

Installing the DDF Wall-Mount Panel Assembly and Modules

1. Locate panel mounting position on the wall and secure with appropriate hardware in the four corner mounting holes provided, as shown in Figure 1.
2. Install snap-in DDF modules into the panel starting at position number 1 and working to the right. Push modules into the opening until latch on block "snap-locks" into panel, as shown in Figure 2. (Figure 2 also shows DDF module removal.)
3. Verify that all blocks are properly installed by grasping each block at the top and pulling from the front with a moderate force of approximately 10 lbs (4.5 kg).
4. Loosen both captive screws and allow hinged panel equipped with DDF modules to rotate into open position.

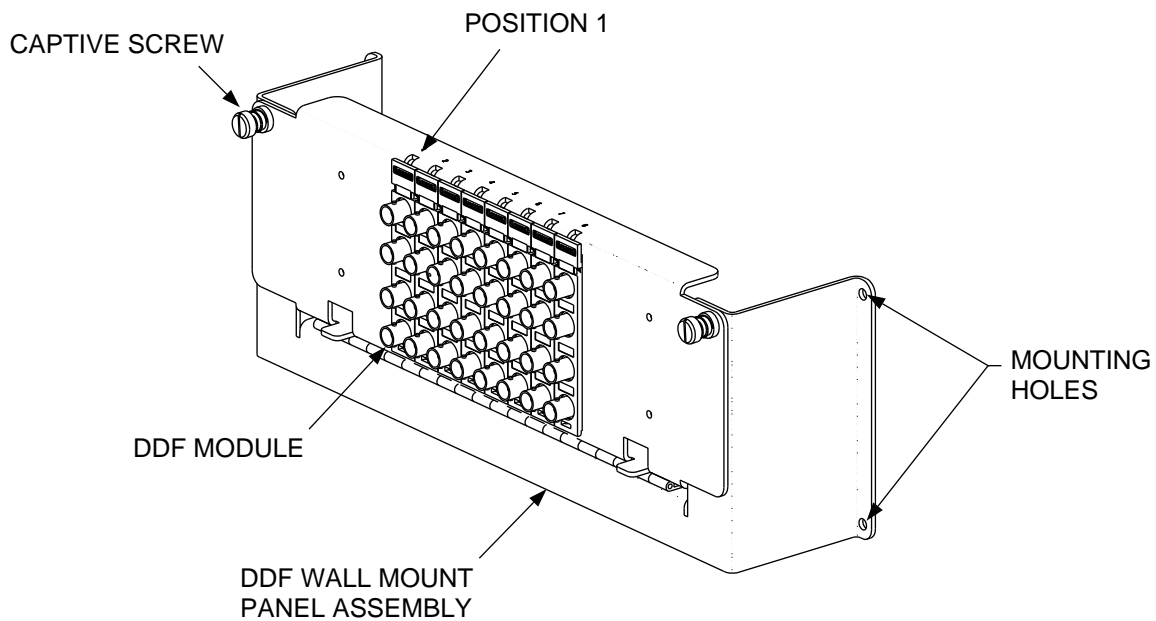


Figure 1. Installing the DDF Wall-Mount Assembly

Installing the DDF Wall-Mount Panel Assembly and Modules (Continued)

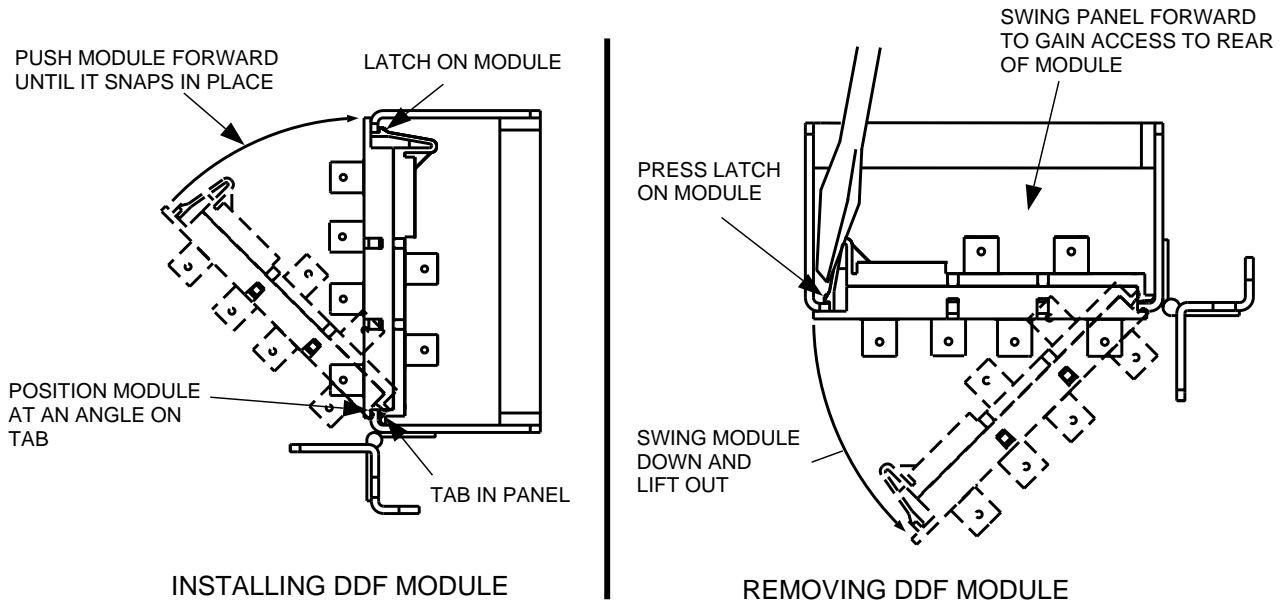


Figure 2. Installing and Removing the DDF Module

Route Network Element Cabling to Panel

Secure network element cables to the wall and/or cable rack behind panel with twine or nylon ties, as shown in Figure 3.

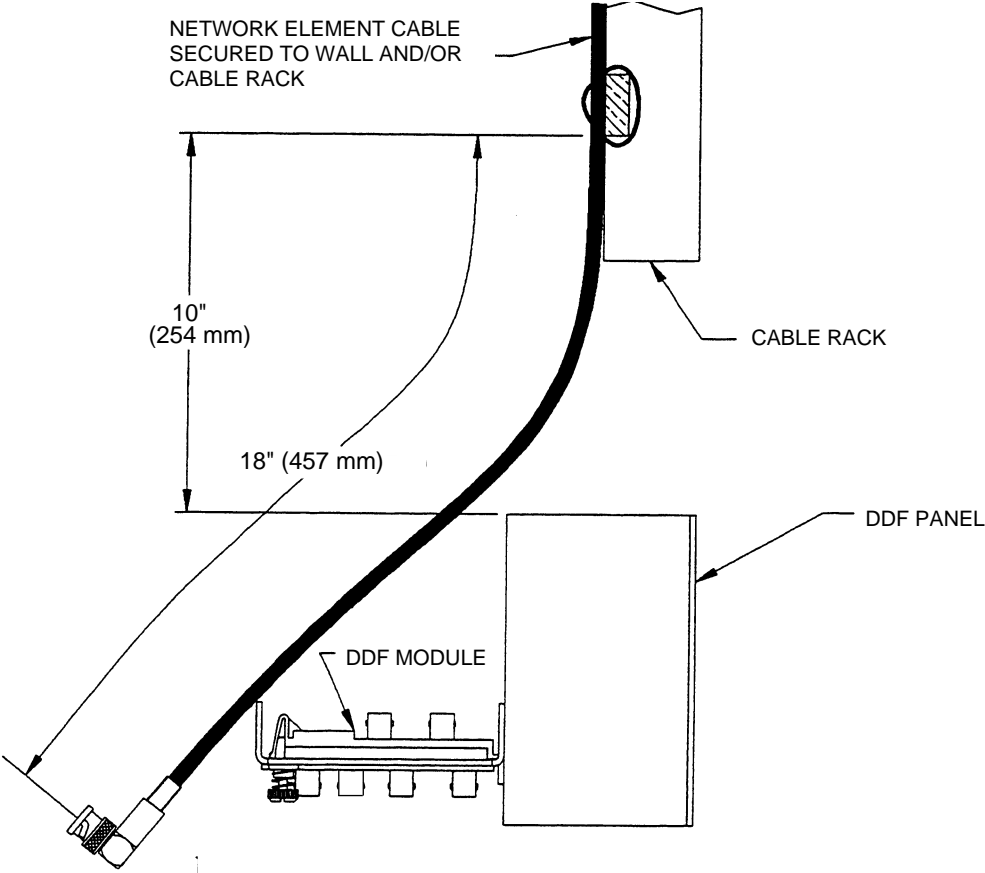


Figure 3. Route Network Element Cabling to Panel

Connect Network Element Cabling

Partition network element cables to each module and secure by locking the network element BNCs to the DDF module BNCs, as shown in Figure 4.

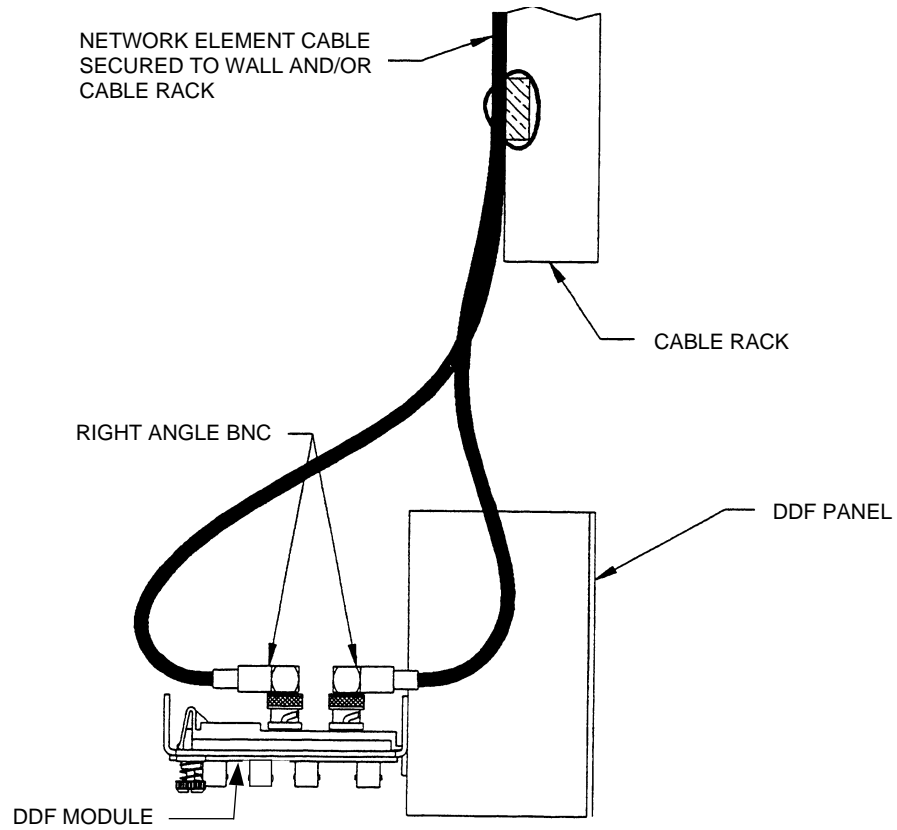


Figure 4. Connect Network Element Cabling

Form Network Element Cabling

Form cable slack (s-bend) while rotating panel to the vertical position, as shown in Figure 5. Leave slack to accommodate future block replacement and network element circuit redistribution procedures.

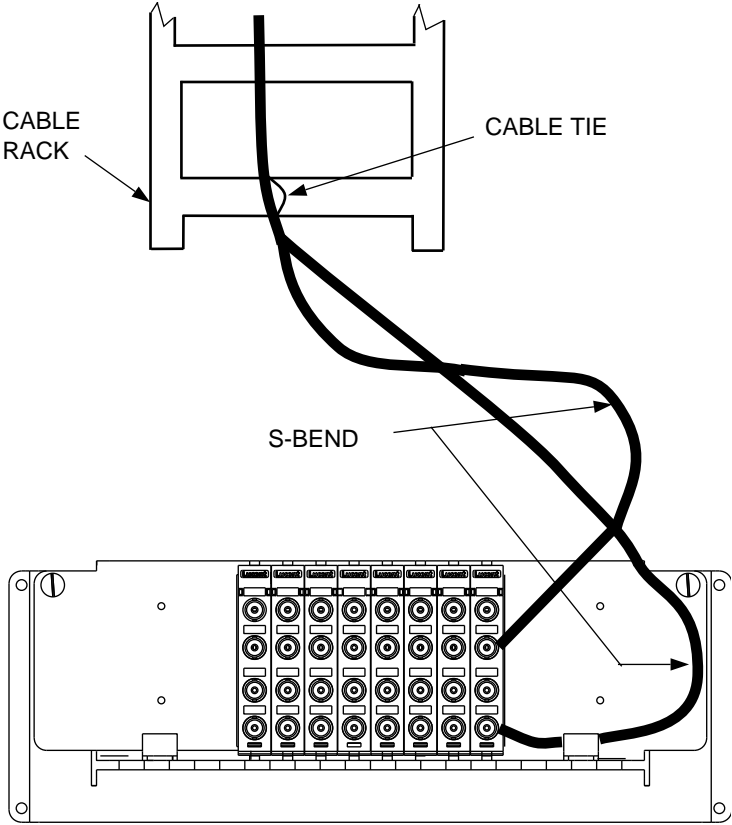


Figure 5. Form Network Element Cabling

Installing DDI Module Labels and Label Covers

The shading on the DDI connecting block labels denotes which sets of terminations (BNCs and wire-wrap pins) are associated with each other. For example, each circuit which consists of a **TRANSMIT** BNC and **TRANSMIT** wire-wrap pins are connected through a transformer. Also, the **TRANSMIT GRD** (grounding) pins are connected in series to all transmit circuits. One set of ground pins are associated with **TRANSMIT** terminations and the other set of ground pins are associated with **RECEIVE** terminations.

Note:

It is recommended that the labels and label covers be installed onto each DDI block immediately prior to installing the block onto the panel.

1. Select the label set with the description in the lower right hand corner that reads:

UPRIGHT; LEFT TO RIGHT NUMBERING 846 926 087

2. Tear each label along perforation.
3. Install the labels first on the block for the left side of the panel. Place the front and rear labels into the recessed area of the DDI connecting block, over the BNC connectors and wire-wrap pins, as shown in Figure 6.
4. Peel off protective covering from the front and back of each label cover.
5. Install front and rear clear label covers over each of the respective labels.
6. Install the DDI block onto the left side of the panel.
7. Repeat Steps 3 through 6 for the right-hand DDI block.

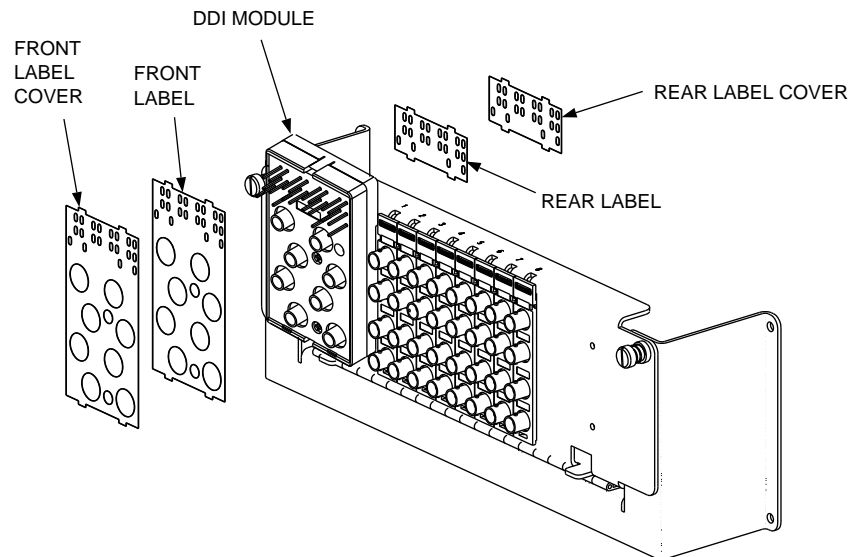


Figure 6. Installing DDI Module Labels and Label Covers

Connecting Cables to DDF Modules—Front Cross-Connect Configuration

The front cross-connect configuration requires two DDF modules to complete a circuit. The module allows easy access to jumpers for circuit rearrangements during installation of new network elements and/or restorations. The circuit may be monitored in both directions of transmission. The connections to the module and a functional schematic of the application are shown in Figure 7.

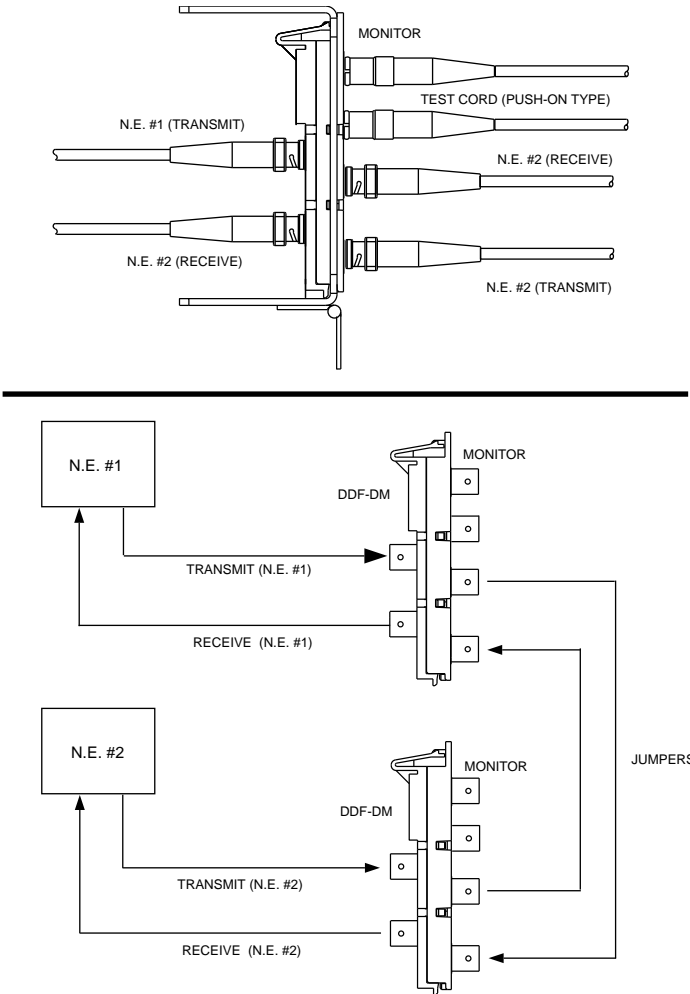


Figure 7. Connecting Cables to DDF Modules—Front Cross-Connect Application

Connecting Cables to DDF Modules—Interconnect Application

The interconnect configuration requires one dual monitor module to complete a circuit. This application is as flexible as the cross-connect application. The circuit may be monitored in both directions of transmission. The connections at the module and a functional schematic of the application are shown in Figure 8.

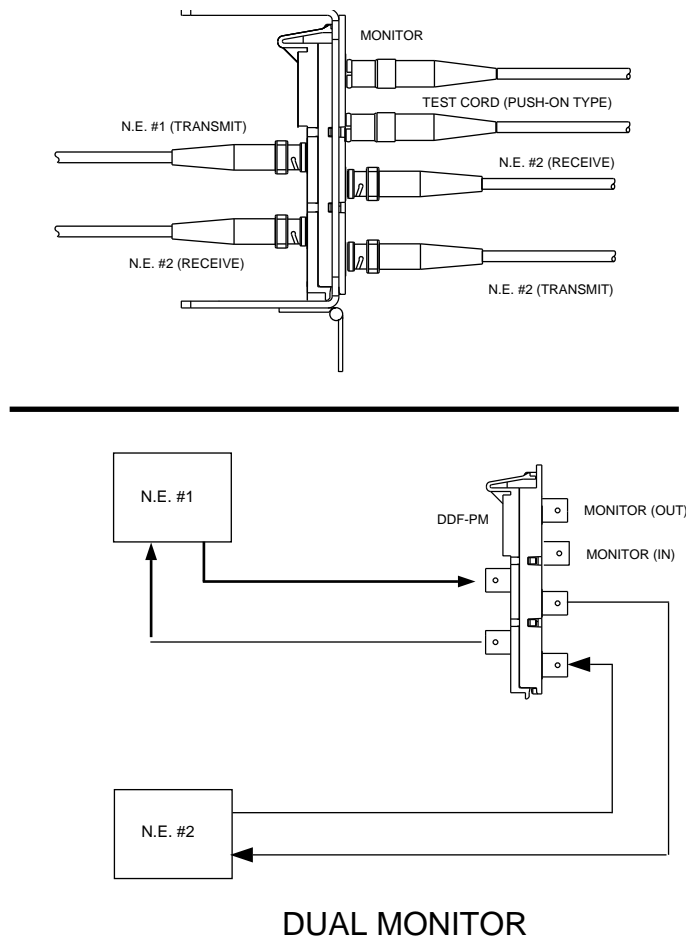


Figure 8. Connecting Cables to DDF Modules—Interconnect Application