

ELF RJ45-IDC Patch Module

Model ELF-9716-1700 Installation Guide

1.1 Overview

Telect's ELF family of modules features small-factor "Elf-sized" units ideally suited for deployment terminations at the network's edge.

Telect's ELF RJ45-IDC Patch Module provides patching between 16, RJ45 connectors on the front and corresponding 100-Ohm cables with four twisted pair on the rear. 16, T568A-coded IDC punch-down blocks interconnect the 100-Ohm cables to the RJ45 connectors. Anchor points on front and rear provide convenient cable management.



Figure 1 - Model ELF-9716-1700

1.2 Inspection

Please read these instructions carefully before beginning installation. If you need assistance, call Technical Support at 1-888-821-4856 (domestic calls), or 509-921-6161 (Option 2), or email us at getinfo@telect.com.

Inspect equipment after unpacking and compare it to the packing list.

Immediately report any shipping damage, defects, or missing parts to Telect at 1-800-551-4567. Keep all documentation that comes with your shipment.

Telect is not liable for shipping damage. If the product is damaged, notify the carrier and call Telect's Customer Service Department at 1-800-551-4567 (domestic only) or 1-509-926-6000 for further recourse.

NOTE: For service or warranty information, please visit the telect.com website, or email inquiries to getinfo@Telect.com and click on the "Support" tab, or phone us at 800-551-4567 (domestic only) or 509-926-6000.

1.3 Installation

! ALERT

ALERT! Only qualified technicians may install and maintain this product.

! ALERT

ALERT! These instructions presume you have verified that the Telect equipment being installed is compatible with the rest of the system, including power, ground, circuit protection, signal characteristics, equipment from other vendors, and local codes or ordinances.

Telect recommends that the ELF rack panel intended for ELF Patch Modules be located no higher than ~1¾ m (~5 ft) from the floor to allow convenient RJ45-IDC patching.

1. Use four, 4-40 x ¼ in. screws (supplied) to attach the cable management tie bar to the front of the module, as shown in Figure 2.
2. Feed up to 16, 100-Ohm cables (CAT 5 or CAT 5E, for example) containing four twisted pairs through the rear of the selected ELF rack panel (Telect Model ELF-0000-2400). About 450 mm (~18 in.) of each cable should hang through the panel entrance, as shown in Figure 3.

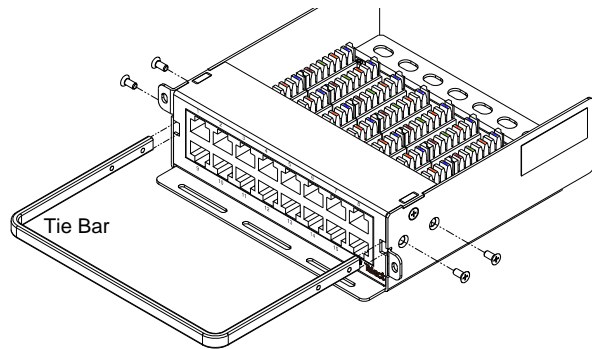


Figure 2 - Attaching the Cable Management Tie Bar

Arrange the cables such that they lie over tie bars at the rear of the panel, unless directed otherwise by operating company standards.

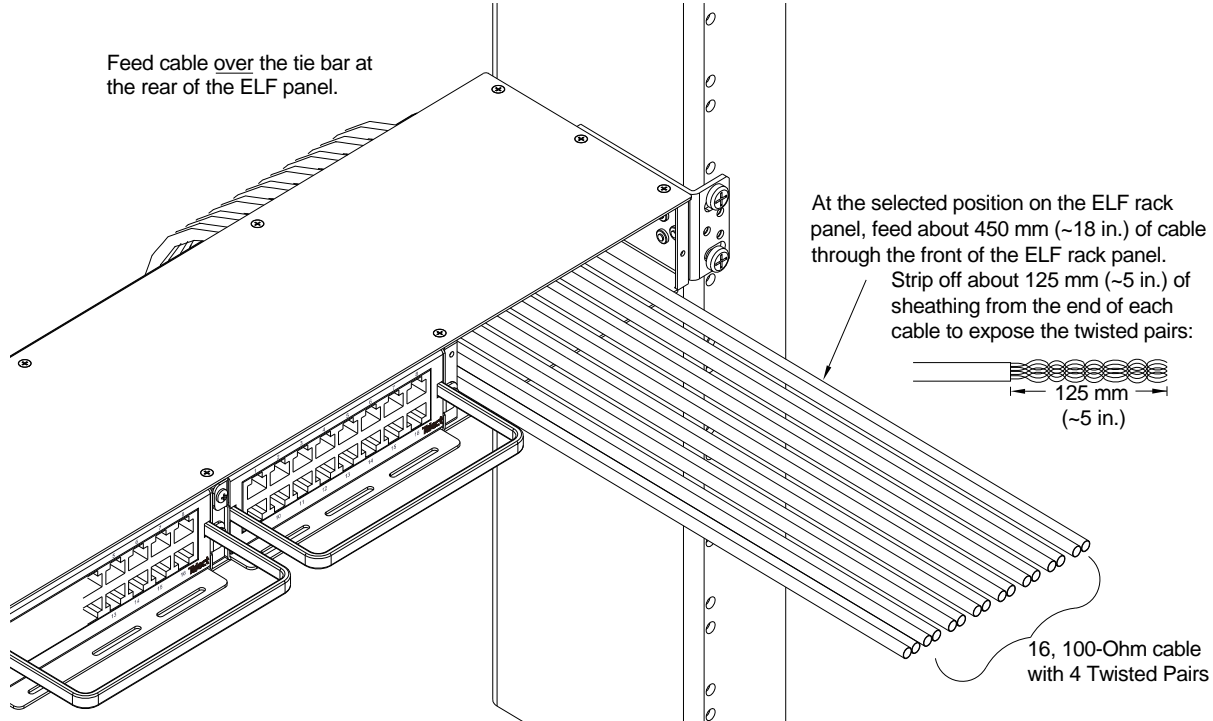
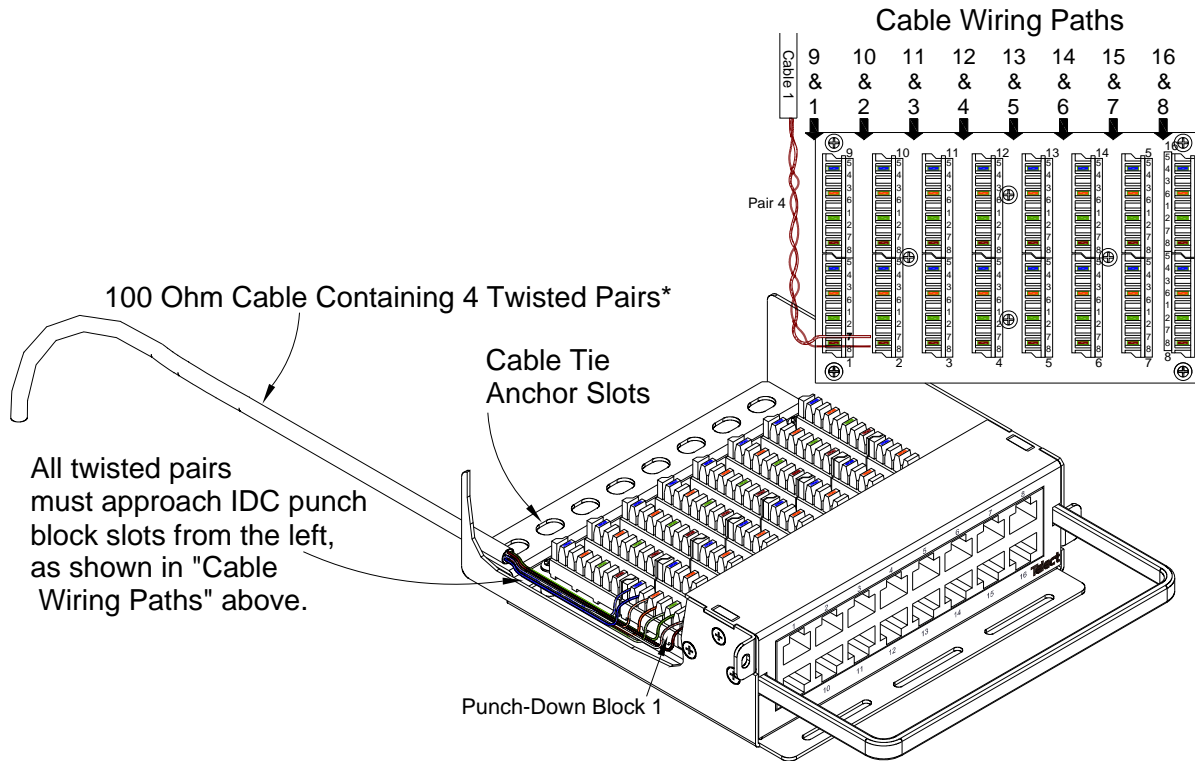


Figure 3 - Stripping the Cable Sheathing

3. Strip away about 125 mm (~5 in.) of cable sheathing from each cable to expose the twisted pairs. (Keep twisted pairs twisted to maximize performance.)
4. As shown in Figure 4, position Cable 1 to the left of the far-left punch-down blocks.

Make sure the wires will be covered by cable sheathing at cable tie anchor slots.



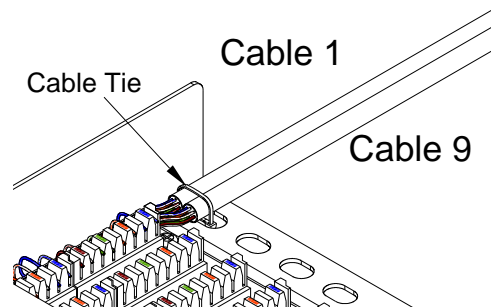
* For simplicity, twists are not shown. In practice, twisted pairs should remain twisted to maximize performance.

Figure 4 - Installing 100Ohm Twisted Pair

5. Start with Pair 4 of Cable 1, positioning those wires into punch slots of Punch-Down Block 1. (If necessary, check schematic on Page 4 for T568A color coding.)

The wires should bridge the path on the other side of the punch block. The excess will be removed in the next step.

6. Use an approved 110 punch-down tool (Telect Part 128798) to punch down wires. Then, clip off the excess wire emerging from the block.
7. Continue with Pairs 3, 2, and then 1 of Cable 1.
8. After completing Cable 1, do Cable 9 and use a tie wrap or lacing to secure these cables to the anchor slots provided at the rear of the module, as shown on the right.
9. Continue with all other cabling in the ELF Patch Module.



- When finished punching down and securing all cables, slip the module into the ELF rack panel and secure with two, M3 screws provided, as shown in Figure 5.

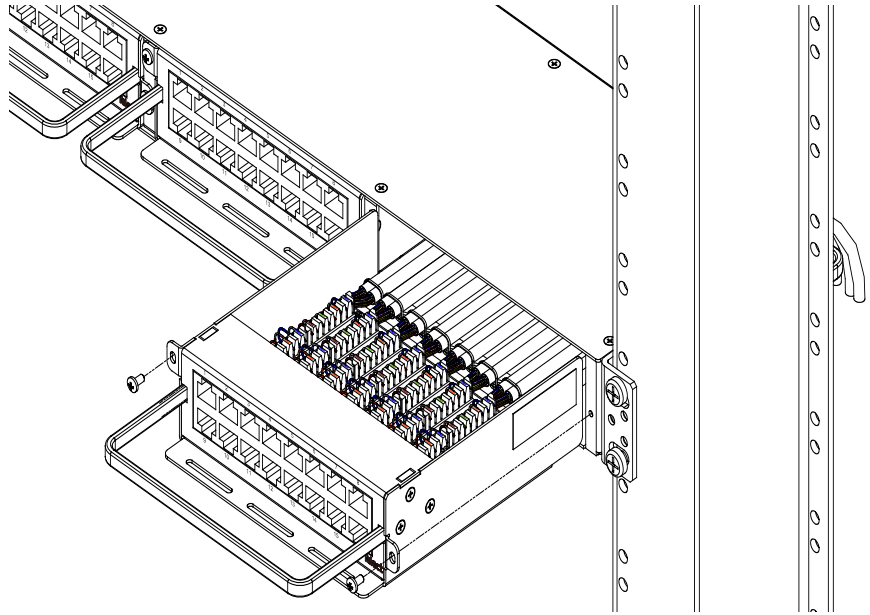


Figure 5 - Installing the Module

- At the rear of the ELF panel, provide a service loop of at least 300 mm (~12 in.) in length to allow the module to be removed at a later time for reterminations.

Use cable tie(s) or lacing to secure the cables to the panel's tie bar, as shown in Figure 6.

- Use RJ45 jacks at front of module for interconnection or patching. Use the tie bar on the front of the module to secure RJ45 cables.

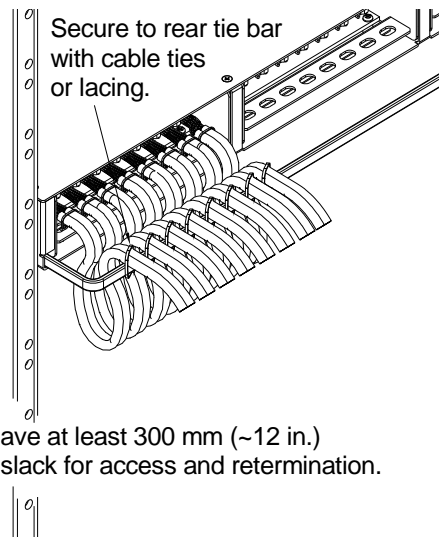
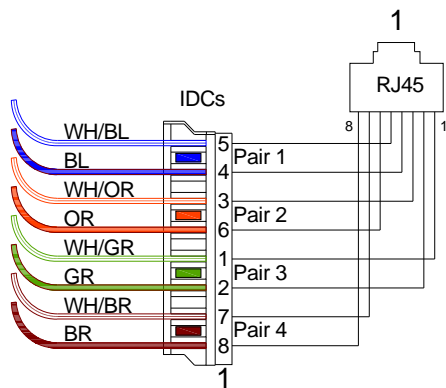


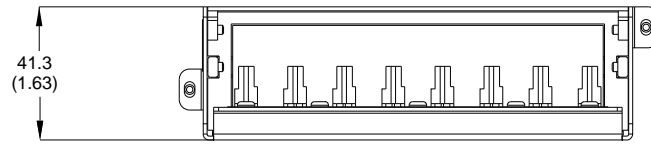
Figure 6 - Securing the Cables

1.4 Schematic

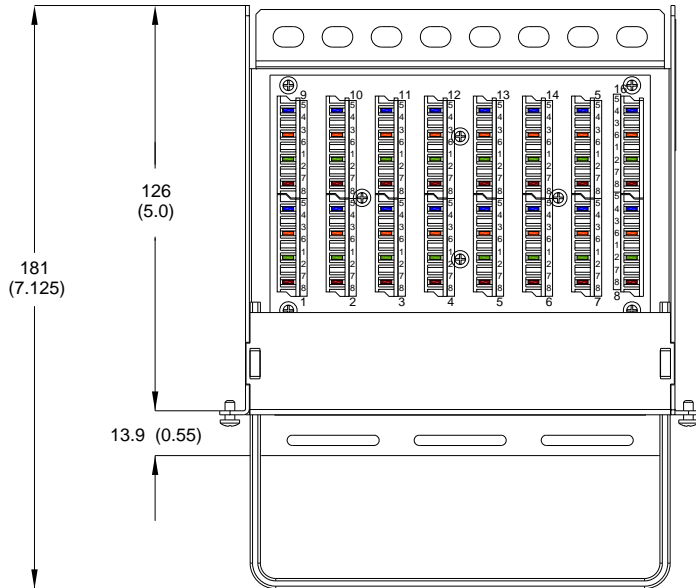


1.6 Assembly Drawing

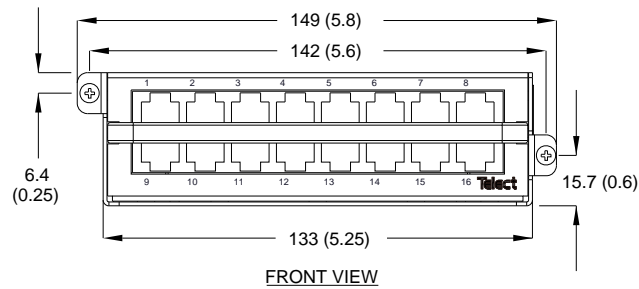
NOTE: Dimensions are in mm (in.)



REAR VIEW
(ROTATED)



TOP VIEW



FRONT VIEW

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