

# 9026 Jackfield Module

## contents

section 1	general description	page 1
section 2	application	page 1
section 3	installation	page 1
section 4	specifications	page 1
section 5	functional schematic	page 2
section 6	testing and troubleshooting	page 2

## 1. general description

1.01 The Tellabs 9026 Jackfield Module (figure 1) provides eight Type 310 jacks, each of which may be wired to perform a direct access (opening or splitting) or a monitor (bridging) jack.

1.02 As a Type 10 module, the 9026 is afforded a variety of relay rack and apparatus case mounting possibilities via the Tellabs Type 10 Mounting Shelves. In relay rack applications, up to 12 modules may be mounted across a 19" rack, while up to 14 modules may be mounted across a 23" rack. In either case, 6" of vertical rack space is required.

## 2. application

2.01 The 9026 Jackfield Module is designed to provide jack access to associated Type 10 modules (or other equipment) in the absence of a permanently wired-in jackfield. In this regard, the 9026 is especially useful in apparatus case or other subscriber-location installations, where other forms of jackfields are seldom present.

2.02 Access provided by the 9026 simplifies alignment and testing of associated equipment. The 9026 accepts a standard Western Electric Type 310 or equivalent plug. Configured as a Type 10 module, the 9026 is easily installed with other Type 10 modules comprising a system or group of circuits.

## 3. installation

### inspection

3.01 The 9026 Jackfield Module should be visually inspected upon arrival in order to find possible damage incurred during shipment. If damage is noted, a claim should immediately be filed with the carrier. If stored, the module should again be visually inspected prior to installation.

### mounting

3.02 The 9026 module mounts in one position of a Tellabs Type 10 Mounting Shelf. Each module plugs physically and electrically into a 56-pin connector at the rear of the Type 10 Shelf.

### installer connections

3.03 Before making any connections to the Mounting Shelf, make sure that the modules are removed. The 9026 Module should be put in place only after all wiring has been completed. All connections are made at the rear of the shelf to the

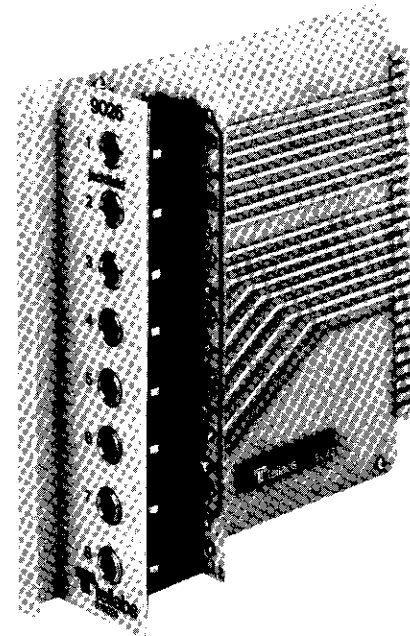


figure 1. 9026 Jackfield module

56-pin wire-wrap connectors. Pin numbers are found on the body of the 56-pin connectors.

### direct access jack connections

3.04 The following functional schematic diagram (section 5) shows the pin assignments on the 9026 Module. Four wire-wrap connections are required for each of the eight jacks when used in the direct access (splitting) configuration. Example: Jack J1 would require wire-wrap connections to pins 49, 50, 52 and 51. Pin 17 is the common ground (sleeve) connection for all jacks on the 9026 Module. Make the wire-wrap connections to the appropriate pins of any jack on the 9026. Module wired for direct access.

### monitor jack connections

3.05 If a jack on the 9026 Module is to function as a monitor (bridging) jack, wire-wrap connections are made only to the odd numbered pins of each jack. Example: Jack J8 would require wire-wrap connections to pins 19, 21 and 17 (common ground). Make the wire-wrap connections to the appropriate pins of any jack on the 9026 Module wired for the monitoring function.

## 4. specifications

### jack type

Western Electric Type 310, or equivalent

### operating environment

-40° to +140°F (-40° to +60°C), humidity to 95%,

no condensation

### weight

8 ounces (0.227kg)

### dimensions

5.58 inches high (14.17cm)

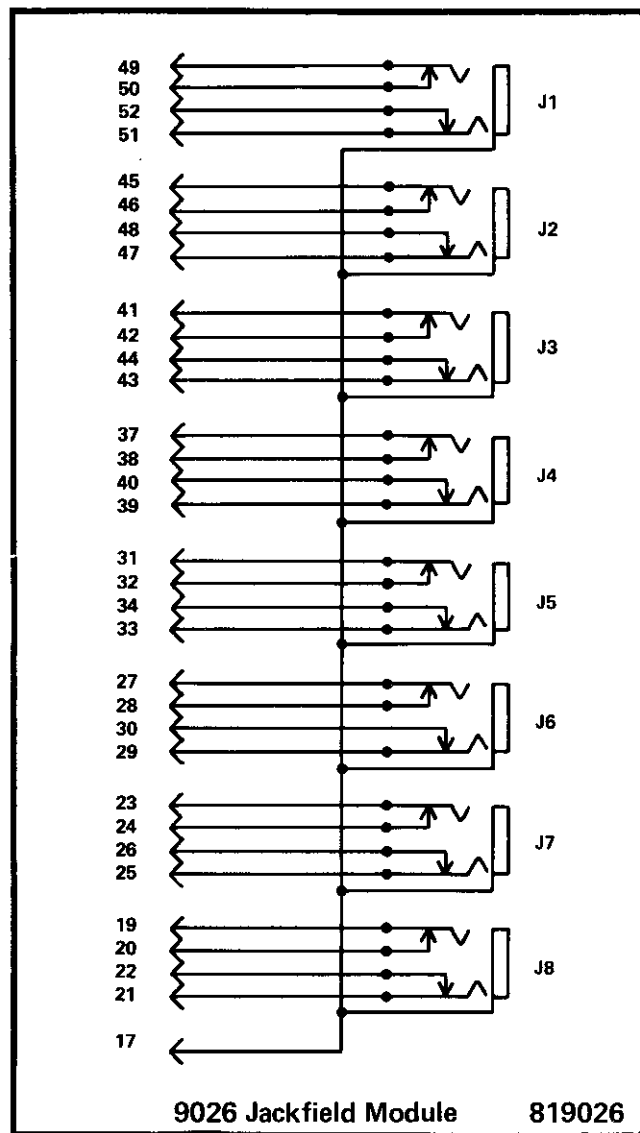
1.42 inches wide (3.61cm)

5.96 inches deep (15.14cm)

### mounting

one position Tellabs Type 10 Shelf or one position

Wescom Type 400 Shelf



5. functional schematic

## 6. testing and troubleshooting

6.01 This Testing Guide may be used to assist in the installation and testing of the 9026 Jackfield Module. The Guide is intended as an aid in the localization of trouble to a specific module. If a module is suspected of being defective, a new module should be substituted and the test conducted again. If the substitute module operates correctly, the original module should be considered defective and returned to Tellabs for repair or replacement. Unauthorized repairs may void the 9026 warranty.

6.02 To test the 9026 Jackfield Module, refer to the functional schematic (section 5) and table 1. Connect a VOM (set to 100 ohm scale) across the

pairs of pins listed in table 1 for each of the eight jacks on the 9026 module. Meter should read 1 ohm or less (short).

jack	pin assignment	jack	pin assignment
J1	49 and 50 51 and 52	J5	31 and 32 33 and 34
J2	45 and 46 47 and 48	J6	27 and 28 29 and 30
J3	41 and 42 43 and 44	J7	23 and 24 25 and 26
J4	37 and 38 39 and 40	J8	19 and 20 21 and 22

table 1. Testing guide

6.03 Insert an unterminated Type 310 or equivalent plug into each jack and set the VOM to the 10K $\Omega$  scale. Repeat the procedure in paragraph 6.02. Meter should read infinity (open).

6.04 Further testing of the 9026 is limited to ensuring that all installer connections have been made to the appropriate pins on the 56-pin connector. In addition, verify that the 9026 Module is seated properly in the 56-pin connector. Remove the module and replug the module into its respective connector, if necessary, to ensure seating.

6.05 If a situation arises that is not covered in the Testing Guide, contact Tellabs Customer Service at (312) 969-8800 for further assistance.

6.06 If a 9026 is diagnosed as defective, the situation may be remedied by either *replacement* or *repair and return*. Because it is the more expedient method, the *replacement* procedure should be followed whenever time is a critical factor (e.g., service outages, etc.).

### replacement

6.07 If a defective 9026 is encountered, notify Tellabs via telephone, letter or twx. Notification should include all relevant information, including the 8X9026 part number (from which we can determine the issue of the 9026 in question). Upon notification, we shall ship a replacement 9026 to you. If the warranty period of the defective module has not elapsed, the replacement module will be shipped at no charge. Package the defective 9026 in the replacement module's carton; sign the packing list included with the replacement 9026 and enclose it with the defective module (this is your return authorization), affix the preaddressed label provided with the replacement module to the carton being returned; and ship the equipment prepaid to Tellabs.

### repair and return

6.08 Return the defective 9026 Jackfield module, shipment prepaid, to: Tellabs Incorporated  
4951 Indiana Avenue  
Lisle, Illinois 60532  
Attn: repair and return

Enclose an explanation of the module's malfunction. Follow your company's standard procedure with respect to administrative paperwork. Tellabs will repair the module and ship it back to you. If the module is in warranty, no invoice will be issued.