



DESCRIPTION

The Total Access 1148 SFP Expansion Cable (P/N 1179830G1, SFP Expansion Cable) is a 2-meter long, RoHS Compliant, shielded cable with integrated SFPs on both ends. The SFP Expansion Cable is shipped with two pre-installed PG 13.5 watertight strain relief fittings.

CAUTION

The white release tab on the SFP Expansion Cable is for removal only. To remove the SFP Expansion Cable, grasp the release tab and push the cable into the cage slightly while pulling the release tab, then pull the cable out of the SFP cage, the SFP Expansion Cable should slide easily out of the cage.

Improper removal of the SFP Expansion Cable can permanently damage the Total Access 1148A/V.

APPLICATIONS

The SFP Expansion Cable provides a connection solution between the Total Access 1148A/V Host DSLAM and Total Access 1148A/V Client DSLAM. An illustration of this application is available on page 2 of this document.

INSTALLATION

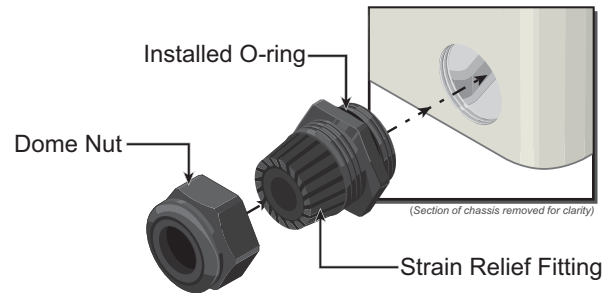
Prior to installation, inspect the SFP Expansion Cable. If damage has occurred during shipping, file a claim with the carrier, and then contact ADTRAN Customer Support. For more information, refer to "Warranty".

To install the SFP Expansion Cable, complete the following steps:

1. Route the SFP Expansion Cable from the Total Access 1148 Host DSLAM to the Total Access 1148 Client DSLAM.
2. Support the SFP Expansion Cable per local instructions.
3. Remove the required expansion hex base plug from the Total Access 1148 Host.
4. Install the integrated SFP connector into the appropriate expansion SFP cage (**EXP 1-3**) of the Host DSLAM by following the applicable Host DSLAM job aid.
5. Complete [Strain Relief Fitting Installation](#) for the Host end of the SFP Expansion Cable.
6. Remove the required Network hex base plug from the Total Access 1148 Client.
7. Install the integrated SFP connector into the network SFP cage (**NTWK 1 or Network**) of the Client DSLAM by following the applicable Client DSLAM job aid.
8. Complete [Strain Relief Fitting Installation](#) for the Client end of the SFP Expansion Cable.

Strain Relief Fitting Installation

The SFP Expansion Cable is shipped with two pre-installed PG 13.5 watertight strain relief fittings. Complete the following steps to install each fitting:



1. Prior to installing individual strain relief fittings, ensure that the O-ring is in place on the strain relief fitting to ensure a water tight seal.
2. Loosen the dome nut on the Strain Relief Fitting in order to allow the fitting to move along the Cable.
3. Thread strain relief fitting into housing until it seats and then torque to 33.2 in-lbf.
If a torque wrench is not available, hand-tighten the fitting into the housing until it seats and then tighten an additional one-quarter to one-half turn using a PG 13.5 deep socket wrench.
4. Loosely hand-tighten the dome nut onto the strain relief fitting.
5. After the cables have been connected, hand-tighten the dome nuts until the cable is snug within the strain relief fitting, and then torque the dome nuts to 22.1 in-lbf.
If a torque wrench is not available, hand-tighten the dome nut until the cable is snug within the strain relief fitting and then tighten an additional three-quarter turn using a PG 13.5 deep socket wrench.

MAINTENANCE

The SFP Expansion Cable does not require routine hardware maintenance for normal operation. ADTRAN does not recommend that repairs be attempted in the field. Repair services may be obtained by returning the defective unit to ADTRAN. Refer to the warranty for further information.

COMPLIANCE

⚠ CAUTION

- ◆ Electrostatic Discharge (ESD) can damage electronic modules. When handling modules, wear an antistatic discharge wrist strap to prevent damage to electronic components. Place modules in antistatic packing material when transporting or storing. When working on modules, always place them on an approved antistatic mat that is electrically grounded.
- ◆ The SFP Expansion Cable meets or exceeds all the applicable requirements of NEBS, Telcordia GR-63-CORE, and GR-1089-CORE. The SFP Expansion Cable is intended for deployment in Central Office type facilities, EEEs, EECs, and locations where the NEC applies (for example, Customer Premises). The SFP Expansion Cable is to be installed in ADTRAN products in Restricted Access Locations only, and installed by trained service personnel.
- ◆ Per GR-1089-CORE, the ADTRAN system in which the SFP Expansion Cable is being deployed is designed and intended for installation as part of a Common Bonding Network (CBN). The ADTRAN system in which the SFP Expansion Cable is being deployed is not designed nor intended for installation as part of an Isolated Bonding Network (IBN).

⚠ CAUTION

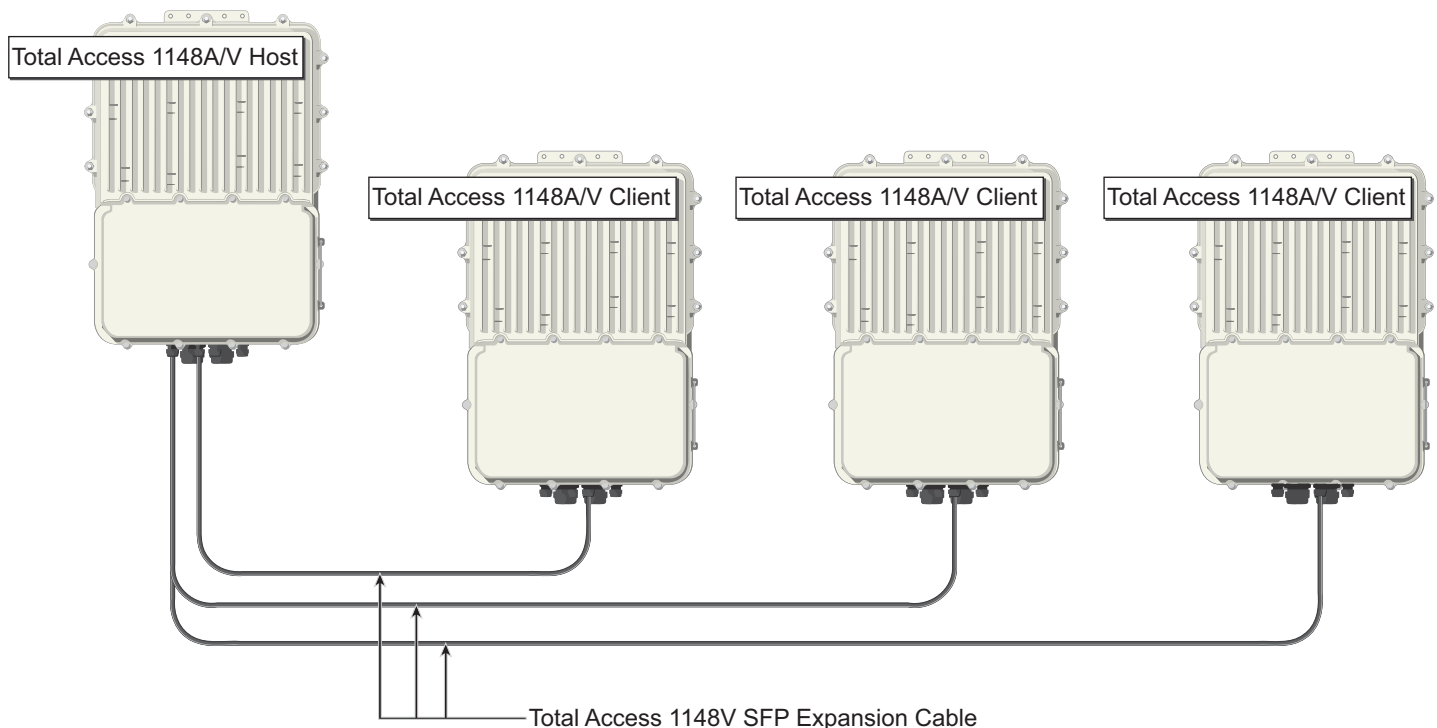
- ◆ Per GR-1089-CORE Section 9, the SFP Expansion Cable does not have an internal DC connection between battery return and frame ground. The SFP Expansion Cable can be installed in a DC-I (isolated) or DC-C (common) installation. For installations where other cards or the host system have internal connections between battery return and frame ground, the system would be intended for deployment only in a DC-C installation.
- ◆ The ADTRAN Total Access 1148 housing ground terminal must be connected to a reliable earth ground to ensure that the metal enclosure of the SFP Expansion Cable is properly grounded via the SFP cage.
- ◆ The SFP Expansion Cable is designed to interface with Type 2 or 4 ports on a Total Access 1148. Type 2 or Type 4 ports are described in GR-1089-CORE Issue 4.

The SFP Expansion Cable is designed to meet the following environmental classes:

- ◆ ETSI EN 300 019-1-1 “Classification of environmental conditions; Storage,” Class 1.2
- ◆ ETSI EN 300 019-1-2 “Classification of environmental conditions, Transportation,” Class 2.3
- ◆ ETSI EN 300 019-1-3 “Classification of environmental conditions, Stationary use at weather-protected locations,” Class 3.3

The SFP Expansion Cable is designed to function without degradation during exposure to all test severities per Class 3.3.

TOTAL ACCESS 1148A/V HOST TO CLIENT EXPANSION



Warranty: ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found online at www.adtran.com/warranty.

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