# TeleLite™

TeleLite Single 3-Slot Swing-Out Shelf (7220PE-10) and Dual 3-Slot Swing-Out Shelves (7220PE-20) Pedestal Assemblies Description and Installation Guide

925W720116-03E





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# **1.1 Publication Information**

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#### **Disclaimer Notice**

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# 1.2 About this Guide

This guide introduces you to the TeleLite Single 3-Slot Swing-Out Shelf (7220PE-10) and Dual 3-Slot Swing-Out Shelves (7220PE-20) Pedestal Assemblies and how to install them. This guide was designed to be read from beginning to end.

# 1.2.1 Related Documentation

To order any manuals, please contact your customer service representative.

# 1.2.2 Positron Products and Services

Positron engineers and manufactures high voltage isolation products to protect personnel and telecommunications circuits in high voltage areas that are susceptible to the effects of Ground Potential Rise (GPR).

Positron is the leader in isolation technology with its Teleline wireline products and TeleLite optical fiber wireline isolation/protection product families. Positron provides total flexibility in product configuration – from standalone units protecting a single circuit to high-capacity, multi-shelf HVI preconfigured systems.

Positron also provides a wide range of consulting, analysis and training services for communications companies and electrical utilities.

Full details and contact information are available at www.PositronPower.com

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#### **Table 1: Positron Contact Information**

# 1.3.1 Technical Customer Support

Positron is committed to providing excellent ongoing technical support to its customers. A team of specialists is always available for telephone consultations or for on-site visits to assist in the maintenance and troubleshooting of Positron equipment.

For pricing information or assistance in the planning, configuration and implementation of the installation of equipment, contact Technical Customer Service.

# 1.3.2 Customer Training

Full customer training courses on High Voltage Interface (HVI) are also available. For more information, contact Positron.

# 1.3.3 Repair Service

All warranty repairs are performed at no cost. Positron reserves the right to repair or replace any equipment that has been found to be defective.

For information about out-of-warranty repairs, contact Positron's Repair Department. Due to the varied nature of repairs, no specific turnaround can be guaranteed, but average turnaround time is 20 working days from date of receipt. In emergency situations, special arrangements can be made. All repaired items are warranted for a period of 90 days.

Before returning any items to Positron for repair, warranty repair or replacement, call the Repair department to obtain a Return Material Authorization (RMA) number. Parts returned without RMA numbers cannot be accepted. The RMA number must always be clearly marked on all boxes, crates, and shipping documents. Bulk repairs (more than five items) will require additional processing time, so please take this into consideration when requesting an RMA number.

To accelerate the repair process, whenever possible, include a report detailing the reason for return with the unit(s). Also, please include the name and phone number of a person who can be contacted should our Repair department need further information.

When packing items being returned for repair, please ensure they are properly packed to avoid further damage. TeleLite plug-in cards should never be shipped while installed in a shelf; this will cause damage that can extend the repair period.

# 1.4 Warranty

Subject to the provisions of this paragraph, Positron warrants that the equipment shall perform in accordance with Positron's specifications. The warranty remains valid for one (1) year from the date of shipment unless otherwise stipulated in the contract. The warranty fully covers workmanship, materials and labor. Positron shall, at its sole discretion, repair or replace the problem unit.

Freight costs to ship defective equipment to Positron are borne by the Customer, with return of replaced or repaired equipment to be at Positron's expense.

# 1.4.1 Limitation of Liability

Subject to anything to the contrary contained herein, Positron's sole obligation and liability and the customer's sole remedy for Positron's negligence, breach of warranty, breach of contract or for any other liability in any way connected with or arising out of, the equipment or any services performed by Positron shall be as follows:

- In all situations involving performance or non-performance of the equipment or any component thereof, the customer's sole remedy shall be, at Positron's option, the repair or replacement of the equipment or said component.
- For any other claim in any other way related to the subject matter of any order under, the customer shall be entitled to recover actual and direct damages; provided that Positron's liability for damages for any cause whatsoever, and regardless of the form of the action, whether in contract or in tort (including negligence), shall be limited to the value of the order.

Positron shall not be obligated to repair or replace any item of the equipment which has been repaired by others, abused or improperly handled, improperly stored, altered or used with third party material or equipment, which material, or equipment may be defective, of poor quality or incompatible with the equipment supplied by Positron, and Positron shall not be obligated to repair or replace any component of the equipment which has not been installed according to Positron specifications.

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# 1.4.2 Cancellation and Rescheduling Charges

Should the customer cancel, prior to shipment, any part of an order, the customer agrees to pay to Positron cancellation charges, not as a penalty, which shall total all expenses, including labor expenses, incurred by Positron prior to said cancellation. Equipment that has been specially developed for the customer's specific applications shall not be subject to cancellation. Cancellation or rescheduling is not permissible after shipment of the System.



# 2.1 Introduction

# 2.1.1 TeleLite Pedestal Assembly and 3-Position Shelf

The TeleLite Pedestal Assemblies Single and Dual 3-Slot Swing-Out shelves, model 7220PE-10 & 7220PE-20 are freestanding pedestals equipped with a selflocking cover housing Positron 720013 3-Slot Swing-Out Shelves. They provide limited environmental protection and full access to the shelves. The covers of the units are dark green and feature a hex-head locking system and anti-insect vents.

#### Figure 1: TeleLite Single 3-Slot Swing-Out Shelf Assembly (7220PE-10)







# 2.2 TeleLite System Introduction

TeleLite provides electrical isolation between two points on a telecom landline. Its purpose is to increase electrical isolation between the CO (Central Office) side and Station side. The increase in electrical isolation is achieved by using a fiber optic link. The Station side unit is located either inside or outside the building. The CO side must be located far enough from the Station side so that the GPR does not increase above 300 V with respect to the CO.

The TeleLite system is divided into two parts: the CO side unit and the Station side unit. Each unit is composed of one shelf. Each shelf has three slots for line cards and features an integrated Access interface for 48 Vdc. For information about the integrated Access interface, see Chapter 4. The shelf backplane does not provide for any telecom connection since all connections (except local power) will be made directly to the RJ-11/RJ-45 connectors, located on the front panel of each card.

## 2.2.1 300 V Point

The 300 V point for an installation is defined by the electrical parameters of the substation. This is the point where the Ground Potential Rise of the site is reduced to 300 V or less. This is usually a new or existing cable closure.

The pedestal can be installed outside the 300 V point with the fiber optic cable crossing it, or just inside the 300 V point such that it is exposed to no more than 10 kV.

For an illustration of how the 3-Slot Shelves Pedestal Assemblies (7220PE-10 & 7220PE-20) are used as a part of the high voltage interface, see the diagrams below.



Figure 3: Installation Inside the 300 V Point

Figure 4: Installation Outside the 300 V Point



## Table 2: Single 3-Slot Swing-Out Shelf (7220PE-10) Physical Specifications

Parameter	Specification
Height of base	38.1 cm (15")
Width of base	63.5 cm (25")
Depth of base	45.7 cm (18")
Height of cover	87.6 cm (34 1/2")
Width of cover	59.7 cm (23 1/2")
Depth of cover	45.1 cm (17 3/4")
Weight	27.2 kg (60 lbs.)

# Table 3: Dual 3-Slot Swing-Out Shelves (7220PE-20)Physical Specifications

Parameter	Specification
Height of base	38.1 cm (15")
Width of base	63.5 cm (25")
Depth of base	45.7 cm (18")
Height of cover	87.6 cm (34 1/2")
Width of cover	59.7 cm (23 1/2")
Depth of cover	45.1 cm (17 3/4")
Weight	28.1 kg (62 lbs.)



# 3.1 Installation

Most installations of the pedestal assembly will be beyond the 300V point (outside the Zone of Influence (ZOI). If the pedestal is to be installed within the ZOI where voltages higher than 300V can be expected, see section 3.3 on page 22 for specific considerations.

# 3.2 Installation Outside the 300 V Point

Installations should conform to local recommended practices for the protection of wire-line communication facilities serving electric supply locations. The equipment must be installed in a restricted or secure area to prevent tampering.



# 3.2.1 Pedestal Physical Installation

Follow the instructions supplied with the pedestal by its manufacturer to install the pedestal itself in the ground. Refer to Appendix B for installation instructions.

#### > To install the 3-Slot Swing-Out Shelves Pedestals Outside the 300 V Point:

- 1. Verify that you have the following customer-provided tools and hardware required to install the shelf:
  - 7/16" hex head wrench
  - Cable clamps and mounting hardware for routing cables exterior to the shelf (quantity determined by the cable lengths)
- 2. Cut the packing straps holding the unit to the pallet.
- 3. Unpack the unit and remove any packing material.
- 4. Remove any other loose items and set aside for later use.
- 5. Install the pedestal in the ground following the pedestal's manufacturersupplied documentation. It is recommended that the cover stay in place during the installation process.
- 6. Once the pedestal is in its final location, use the hex-head wrench to open the cover and set it aside.
- 7. Insert any required cards into the shelf.
- 8. Route the fiber optic cables using the fiber management system.
- 9. Route the CO cabling as required.
- CAUTION

Ensure that no wiring comes to within 4.5 cm (2") of the metal brackets of the pedestal assembly.

10. Once the work inside the pedestal has been completed, replace the cover and tighten the hex-head fasteners.

# 3.2.2 Serving Cable

**CAUTION** The serving cable to the CO unit must be routed and installed according to local regulation.

The CO unit must be installed outside the zone of influence where the potential is less than 300 V.

Use an all-dielectric fiber and non-conducting conduit between the CO and Station side unit and follow local regulations.

# 3.2.3 Ground Connector

CAUTION

To ensure safety of personnel, Positron recommends following these guidelines:

- This equipment must be permanently connected to earth using the ground lug on the right side of the shelf
- This equipment must be located in the same immediate area (such as adjacent cabinets) as any other equipment that is connected to it.

# 3.3 Installation Inside the 300 V Point

Installations should conform to local recommended practices for the protection of wire-line communication facilities serving electric supply locations.

The equipment must be installed in a restricted or secure area to prevent tampering.

# 3.3.1 Pedestal Physical Installation

Follow the instructions supplied with the pedestal by its manufacturer to install the pedestal itself in the ground.

#### > To install the Pedestal and 3-Position Shelf Inside the 300 V Point:

- 1. Verify that you have the following customer-provided tools and hardware required to install the shelf (shelves):
  - 7/16" hex head wrench
  - Cable clamps and mounting hardware for routing cables exterior to the shelf (shelves) (quantity determined by the cable lengths)
- 2. Cut the packing straps holding the unit to the pallet.
- 3. Unpack the unit and remove any packing material.
- 4. Remove any other loose items and set aside for later use.
- 5. Install the pedestal in the ground following the pedestal's manufacturersupplied documentation. It is recommended that the cover stay in place during the installation process.
- 6. Once the pedestal is in its final location, use the hex-head wrench to open the cover and set it aside.
- 7. Insert any required cards into the shelf (shelves).
- 8. Route the fiber optic cables using the fiber management system.
- 9. Route the CO cabling as required.
- **CAUTION** Ensure that no wiring comes to within 4.5 cm (2") of the metal brackets of the pedestal assembly.
  - 10. Ensure that no ground is connected to the ground lug or to the cable shield.
  - 11. Affix the label(s) shown in Figure 5 on page 24 to the face of the 3-position shelf (shelves) as shown.
  - 12. Once the work inside the pedestal has been completed, replace the cover and tighten the hex-head fasteners.



Figure 5: Warning Label

# 3.3.2 Serving Cable

# 

- The serving cable to the CO unit must be routed and installed according to local regulation.
- The CO unit can be installed inside the zone of influence where the potential is less than 10,000 V.
- Use an all-dielectric fiber and non-conductive conduit between the CO and Station side unit and follow local regulations.

# 3.3.3 Ground Connector

#### CAUTION

To ensure safety of personnel, Positron recommends following these guidelines:

- If the splicing of the dedicated cable to the general use cable is started or accomplished early in the designed work sequence, a safety hazard will exist. That safety hazard will then require the use of a rubber mat and rubber safety gloves for the remaining installation work to protect personnel against Ground Potential Rise and/or transients.
- Additionally, as a safety issue, it is recommended that the installation be done on a clear day with no lightning activity.
- This equipment must **NOT** be grounded as this provides a path for dangerous voltages to enter.
- This equipment must be located in the same immediate area (such as adjacent cabinets) as any other equipment that is connected to it.

# Chapter 4

# **3-Slot Swing-Out TeleLite Shelf**

# 4.1 The Integrated Access Interface

The integrated access connector into the 720013 shelf provides:

- Electrical connection between the backplane and the local -48 Vdc
- Fuse and alarm contact
- Protection against polarity reversal and transient

## 4.1.1 Fuse and Alarm Contact

The access connector on the Station side and on the CO side (if provisioned) have Return and -48 V pins to provide power to the shelf. It also has a fuse alarm pin that provides -48 V when the access interface fuse is blown. This provisions for an external alarm indication.

# 4.1.2 Swing-Out Bracket

The 3-slot Swing-Out Shelf features a built-in swing-out bracket. This allows the shelf to swing out to provide easy access to the face plates of the cards for easy LED status assessment and the RJ and fiber connectors. In its open position, the shelf allows easy access to the faceplates of the cards. This concept allows for a minimal depth of 11 cm, (4.3") while maintaining a small footprint of 22.9 cm x 19 cm (9" x 7.5"). When in the closed position, the shelf is locked by a spring-loaded stainless steel lifting pin.

• To disengage the shelf so it can swing out, lift the locking pin.

## 4.1.3 Local Alarm 1 and Local Alarm 2

If any circuit card on the Station side shelf experiences a fault condition, the local alarm relay contact (normally open) between pins (local alarm 1 and local alarm 2) will close, allowing current to flow through an externally provided circuit. This mechanism can be used to provision an audio or visual indication of a fault condition.

# 4.1.4 Remote Alarm 1 and Remote Alarm 2 (optional function)

If any circuit on the CO side shelf experiences a fault condition, this indication is communicated over the fiber to the Station side shelf access connector. The remote alarm contact between pins (remote alarm 1 and remote alarm 2) will close, allowing current to flow through an externally provided circuit. This mechanism can be used to provision an audio or visual indication of a fault condition.

#### NOTE

The local and remote alarm pins on the Shelf Access Connector CO side (if provisioned) are not used since the equipment is located at the mid span, where typically there is no equipment to monitor alarms.

Terminal Block	Station Side Function	CO Side Function
RTN	Supplies -48 Vdc Return	Supplies -48 Vdc Return
-48 V	Supplies -48 Vdc	Supplies -48 Vdc
Fuse Alarm	Provides -48 Vdc when fuse is blown	Provides -48 Vdc when fuse is blown
Local Alarm 1	Normally open relay contact provides dry contact closure for an audio or visual indication of a fault condition on the Station side	Not used
Local Alarm 2	Normally open relay contact provides dry contact closure for an audio or visual indication of a fault condition on the Station side	Not used
Remote Alarm 1	Normally open relay contact provides dry contact closure for an audio or visual indication of a fault condition on the CO side	Not used
Remote Alarm 2	Normally open relay contact provides dry contact closure for an audio or visual indication of a fault condition on the CO side	Not used

#### **Table 4: Access Connector Pinouts**

NOTE

The TeleLite integrated Access interface requires a 2 A fuse. The fuse is replaceable. For ordering information, see section 1.3 on page 8.

- **NOTE** The power to the integrated Access interface is polarity sensitive. No damage incurred, but system does not work if polarity is wrong.
- CAUTION

For continued protection against risk of fire, replace only with same type and rating of fuse.



Figure 6: 3-slot Swing-Out Shelf (model 720013) Closed



Figure 7: 3-slot Swing-Out Shelf (model 720013) Open



Figure 8: Shelf Access Connector

# 4.2 Electrical Specifications

Parameter	Specification
Shelf Voltage Input	-40.8 Vdc to -57.6 Vdc
Shelf Maximum Current	1 A
Alarm Contact Rating	62.5VA, 125Vac, 2A

# 4.3 Troubleshooting

Before calling customer service, make sure that:

- The fuse is not blown
- 48 Vdc is available on the terminal block, if locally-powered.

If these have been verified, the problem may be line-related. Refer to plug-in line card Description and Installation guide.



# Acronyms

ALRM	Alarm

- CFJ Copper Fiber Junction
- **CO** Central Office
- **CPE** Customer Premises Equipment
- **ESD** Electro Static Discharge
- **GPR** Ground Potential Rise
- HVI High Voltage Interface
- LCL Local
- **LED** Light Emitting Diode
- **OEI** Optical Electrical Interface
- RMT Remote
- RTN Return
- **ZOI** Zone of Influence





# PRACTICE FOR CHANNELL SPH14206 SELF-LOCK PEDESTAL

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# 1. GENERAL

- 1.1 This practice covers the description, application and installation of the SPH14206 Series Pedestal Housing.
- 1.2 The Channell SPH14206 Series Signature Housing is designed for use in any buried plant environment. It is manufactured of green linear low-density polyethylene plastic. (See Figure 1).



Figure 1

1.3 See Figure 2 for an exploded view of an SPH14206 with an example of how equipment might be mounted.



Figure 2

1.4 Refer to company practices and instructions for the correct splicing methods and cabling procedures not addressed in this practice.

# 2. **DESCRIPTION**

- 2.1 The SPH14206 Series Signature Pedestal Housing is designed for use in underground applications.
- 2.2 The base of the SPH14206 pedestal is designed with rib type cavities that allow dirt to fill into cavities when placed. This provides anchor stability in most soil conditions (See Figure 3).



Figure 3

2.3 A mounting hardware bracket is pre-installed into the base of the SPH14206. Bracket assemblies for either a single or dual system application is available (See Figure 4).



- 2.4 All cables and wires are brought up into the base of the SPH14206 from underneath.
- 2.5 The removable upper cover has handles for lifting the cover upward for removal. The upper cover is also equipped with vents and a locking mechanism to secure the cover to the internal mounting hardware.

# 3. APPLICATION

- 3.1 The SPH14206 Series Channell Signature Pedestal Housing is designed for underground applications and will accommodate single or dual plant active electronic applications.
- 3.2 The SPH14206 Pedestal Housing is vented on all for sides to provide maximum heat dissipation for active electronics.

# 4. SELF-LOCK COVER OPERATING INSTRUCTIONS

4.1 Insert either a 7/16" nut driver, 216 tool, Channell Brass Self-lock key, or Channell Star-lock tool into the lock head and turn left or right 1/4 turn. While holding the lock in this position, lift up on the hand-hole of the opposite side of the cover. The cover will unlatch. While holding the cover up, remove the lock tool, grab the hand-hole position on the lock side and lift the cover off. Do not use the lock tool to raise the cover. (See Figure 5)

To replace the cover, lift the cover by the hand-hole positions and guide the channel 4.2 in the cover down over the metal mainframe, and let the cover drop when within 4" to 6" from the base of the pedestal. The Self-Locking mechanism will latch the cover to the base. (See Figure 6)



Figure 5



Figure 6

# 5. CABLE PLACEMENT

- 5.1 Establish accurate location of final grade.
- 5.2 Allow for a cable or cable ends to remain exposed above final grade 34" for all coax cables at each pedestal location. (See Figure 5)



Figure 7

# 6. SPH1420 BASE INSTALLATION

- 6.1 On engineering jobs where buried coax cables are being placed, the SPH14206 can be placed either off- set to the open trench or in the open trench.
- 6.2 Final grade should be established before pedestal is placed. If final grade is not determined at time of placement, the pedestal should be placed offset to the trench to allow for adjustments at a later date when final grade is completed.
- 6.3 Unlock the pedestal cover using Self-lock procedures in Section 4.1. Remove the upper cover from the base and place the base over the cables in the prepared hole (26" x 19" x 12" deep) (See figure 6).



Figure 8

- 6.4 Use soil to level the base and insure that it is sitting straight.
- 6.5 Fill in around the base with soil, adding more soil as necessary and tamping thoroughly to bring the soil to finished grade level. Place and tamp the soil inside the base so that the inside soil level is at least equal to the outside grade level.
- 6.6 Cut the Coaxial Cable tails a minimum of 34" above finish grade, which will allow the tails to just, fit inside the pedestal with the cover installed.
- 6.7 The pedestal cover can now be replaced.