



**PAN-POLE® Power &  
Communication Pole**

**LP-SPEC-PanPole-2**

## **1. GENERAL**

### **1.1 Scope**

This specification covers aluminum Power and Communications Pole systems used to extend branch circuit wiring and/or data network, voice, video, and other communications cabling to point of use as shown on the building plans. The Power and Communications Pole system shall consist of the tele-power pole multioutlet assembly, appropriate fittings and accessories to complete the installation per the electrical and/or communications drawings.

### **1.2 Classification and Use.**

Power and Communications Poles are to be utilized in dry interior locations only as covered in Articles 380 and 386 of the National Electrical Code, as adopted by the National Fire Protection Association and as approved by the American National Standards Institute. The Panduit *PAN-POLE®* series are UL5 listed by Underwriter's Laboratories under File No. E199665 and by Canadian Standards Association C22.2 No. 62.1-03, 600VAC File No. 086285-C-000.

### **1.3 Submittals**

#### **1.3.1 Shop Drawings**

Submit drawings for approval showing the complete layout of all products that make up the complete system for each floor prior to installations with device type (power and data), locations, and circuits identified.

#### **1.3.2 As Built Drawings**

If variations from the approved shop drawings occur during the installation of the system, final, as built drawings, shall be submitted for each floor that has been altered.

## **2. PRODUCT**

### **2.1 Manufacturer**

The Power and Communications Pole systems specified herein for extension of power branch circuit wiring and/or communications cabling services shall be the *PAN-POLE®* system as manufactured by Panduit Corporation. Systems of other manufacturers may be considered equal if, in the opinion, and the written approval of the engineer, they meet all the performance standards specified herein.

### **2.2 Materials**

#### **2.2.1 Channels**

The Power and Communications Pole channel shall be aluminum, painted either off-white or electrical ivory, with a cross sectional area of 2.90" X 1.77" with two separate compartments. One compartment is to be factory wired with two (2) duplex style 20A, 125V NEMA 5-20R grounding-type specification grade receptacles, colored to match the pole finish. Receptacles must be UL tested to meet the performance requirements of Fed. Spec. W-C695G General Specification for Electrical Power Connectors and conform to NEMA specification WD 1-7.01 to 7.10 "Heavy Duty General Use Grounding Receptacle". Receptacles shall also be UL Listed and be in compliance with UL-498. The harness is to be single circuit (2 conductor plus ground) with #12 AWG solid type THHN conductors, factory assembled to the receptacles. Six inch (6") conductor leads are to be furnished for termination to the overhead wiring system. An eight inch (8") removable cover section must be provided at the top of the power compartment to facilitate the hard-wiring of the pole harness.

The second compartment is to be for field installation of telephone or data network cabling. *PAN-POLE*® is provided with a nonmetallic cover, which is removable and easily cut to create an opening for installation of communications Snap-On bezels. The pole is designed to accept Panduit Snap-On single gang communications bezels and inserts. The cover can be cut to create openings for up to 6 bezels, providing 24 jacks.

The *PAN-POLE*® shall be \_\_\_\_\_ , \_\_\_\_\_ ” long (**11’ or 13’**).

### **2.2.2 Fittings**

A full compliment of fittings for the Power and Communications Pole shall be available including, but not limited to, entrance end fitting, which protects cable bend radius, for the top of the pole, ceiling trim plate, pole mounting bracket, Velcro carpet gripper pad, and adhesive pad.

### **2.2.3 Add-On Device Covers**

The power and communications pole must be UL listed for field modifications, changes and additions of receptacles, devices, and circuits. Field installed power device covers shall be available to add duplex and rectangular-type receptacles. These plates must be color matched to the appropriate power and communications pole.

Add-on communication covers must be available to mount workstation device faceplates, inserts, and specialty mounting bezels. The power pole manufacturer will provide a complete line of connectivity outlets and modular inserts for UTP (including Category 5, 5E, and 6), STP (150 Ohm), Fiber Optic, Coaxial, and other cabling types. The workstation inserts shall also have available a complete line of port and station identification labels in a variety of colors that meet the requirements for ANSI/EIA/TIA 606.

## **3. Execution**

### **3.1 Installation**

Prior to and during installation, refer to system layout drawing containing all elements of the system. Installer shall comply with detailed manufacturer’s instruction sheets, which accompany the *PAN-POLE*® assembly.

#### **3.1.1 Mechanical Security**

All Power and Communications Pole systems shall be mechanically continuous and connected to all electrical outlets, boxes, power whips, and in accordance with manufacturer’s installation sheets.

#### **3.1.2 Electrical Security**

All Power and Communications Pole systems shall be electrically continuous and bonded in accordance with the National Electrical Code for proper grounding.

#### **3.1.4 Completeness**

Work shall include fastening the *PAN-POLE*® assembly, appropriate fittings, and device plates to install a complete Power and Communications Pole system as indicated on the electrical and/or communication drawings and in the applicable specifications. All poles shall be installed complete, including trim plates where required by manufacturer’s installation sheets.



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