

**QPTZ.E118773**  
**Power Limited Circuit Cable**

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**Power Limited Circuit Cable**

**Guide Information**

**3M COMPANY**

E118773

ELEC & INTERCONNECT SOLUTIONS DIV  
6801 RIVER PLACE BLVD  
AUSTIN, TX 78726 USA

Types CL2 , CL2X , CL3 , CL3X .

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# QPTZ.GuideInfo

## Power Limited Circuit Cable

### Power-limited Circuit Cable

#### Guide Information for Electrical Equipment for Use in Ordinary Locations

##### USE

This category covers power-limited circuit cable intended for use in Class 2 or Class 3 circuits as described in Article 725 of ANSI/NFPA 70, "National Electrical Code" (NEC).

##### PRODUCT MARKINGS

Cable with a nonmetallic jacket is identified by a marking on the surface of the jacket or on a marker tape under the jacket. Cable with an outer metal sheath is identified by a marking on a tag attached to the reel or coil. This marking includes one of the following Type designations:

**CL2P or CL3P** — Indicates cable intended for use in Class 2 or Class 3 circuits within buildings in ducts or plenums or other spaces used for environmental air in accordance with Section 725.61(A) of the NEC. This cable exhibits a maximum peak optical density of 0.5, a maximum average optical density of 0.15, and a maximum flame spread distance of 5 ft when tested per NFPA 262, "Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces."

**CL2R or CL3R** — Indicates cable intended for use in Class 2 or Class 3 circuits within buildings in vertical shafts in accordance with Section 725.61(B) of the NEC. The flame propagation height of this cable is less than 12 ft when tested per UL 1666, "Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts."

**CL2 or CL3** — Indicates cable intended for general use in Class 2 or Class 3 circuits within buildings in accordance with Section 725.61(E) of the NEC. This cable does not spread flame to the top of the tray in the Vertical-Tray Flame Test in UL 1581, "Reference Standard for Electrical Wires, Cables, and Flexible Cords."

**CL2X or CL3X** — Indicates cable intended for use in Class 2 or Class 3 circuits within buildings (1) where the cable is enclosed in raceway or noncombustible tubing, or (2) in nonconcealed spaces where the exposed length of cable does not exceed 10 ft, or (3) in one- or two-family or multifamily dwellings when the cable diameter is less than 0.25 in., in accordance with Section 725.61(E) of the NEC. This cable complies with the VW-1 Flame Test requirements in UL 1581.

**PLTC** — Indicates cable for use in Class 3 circuits within buildings that is suitable for use in cable trays, in accordance with Sections 725.61(C) and (D) of the NEC. This cable does not spread flame to the top of the tray in the Vertical-Tray Flame Test in UL 1581.

Cable marked "direct burial," "for direct burial" or "dir bur" has been investigated and found suitable for direct burial in the earth.

Cable marked "sunlight resistant" or "sun res" may be exposed to the direct rays of the sun.

Cable marked "wet" or "wet location" is suitable for use in wet locations.

Cable marked "-30C," "-40C," "-50C," "-60C" or "-70C" complies with a cold bend test conducted at that temperature.

Cable that complies with the requirements for "Limited Combustible" specified in NFPA 90A, "Installation of Air Conditioning and Ventilating Systems," are surface marked "Limited Combustible."

Type PLTC cable suitable for use as open wiring between cable trays and utilization equipment in accordance with Section 725.61(D)(4) of the NEC is surface marked "open wiring."

Listed cable which is additionally marked "In Accordance With [Specification name and/or number]" complies with the requirements of the transmission performance specification referenced and is manufactured under an acceptable quality assurance system.

### **ADDITIONAL INFORMATION**

For additional information, see Electrical Equipment for Use in Ordinary Locations ([AALZ](#)).

### **REQUIREMENTS**

The basic standard used to investigate products in this category is UL 13, "Power-Limited Circuit Cables."

### **UL MARK**

The UL symbol on the product and the Listing Mark of Underwriters Laboratories Inc. on the attached tag, the reel or the smallest unit container in which the product is packaged is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the product name "Power-limited Circuit Cable."

Cable verified to another transmission performance specification has the Marking "Verified In Accordance With [Specification name and/or number]" together with the Listing Mark information on the tag, reel or smallest unit container.

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