

Specifications for Modular Plug Terminated Links (MPTL)

Division 27/28



CATEGORY CABLE

A. Description: Conductor: 24/22 AWG solid bare copper

Color Code:

Pair 1: Blue - White/Blue

Pair 2: Orange - White/Orange

Pair 3 - Green - White/Green

Pair 4: Brown - White/Brown

Jacket:

1. Comply with ANSI/TIA-568.2 [Category 5e] [Category 6] [Category 6A] cable standards
2. Comply with ANSI/BICSI 007-2020 standard
3. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444 and NFPA 70 for the following types:
 - a) Communications, Plenum Rated: Type CMP complying with NFPA 262. Plenum - Low Smoke Flame Retardant, PVC, UL Listed Type FT6 per UL 444
 - b) Communications, Riser Rated: Type CMR, complying with UL 1666, Riser - Flame Retardant PVC, UL Listed Type FT4 per UL 444

2.4 CONNECTING HARDWARE

A. MPTL Connecting Hardware shall be a RJ45 modular plug designed for field termination, manufactured by Optical Cable Corporation (Part# UTP: OCCUFP6A; STP: OCCSFP6A) or equal.

1. The modular plug shall meet or exceed the Category 6A performance criteria per ANSI/TIA-568.2 and ISO/IEC 11801 Class EA compliance
2. The modular plug shall meet IEC 60603-7-41 requirements
3. The modular plug shall be compatible with IEC 60603-7 compliant 8-position modular jacks
4. The modular plug shall be available in T568B wiring configuration and optionally support T568A wiring
5. The modular plug shall have an insulation piercing connection featuring insulation piercing of 22 to 24 AWG plastic-insulated solid copper conductors forming a gas-tight connection
6. The connector module must be compliant with all IEEE 802.3bt (Power over Ethernet) requirements
7. Field terminable plug shall be capable of being terminated using parallel jaw pliers (OCC p/n FPJP or equivalent) and diagonal wire cutters

8. OCC Stock Code: OCCUFP6A - Cat 6A Unshielded Field Terminable Modular Plug
 9. OCC Stock Code: OCCSFP6A – Cat6A Shielded Field Terminable Modular Plug
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- B. Connecting Blocks or Patch Panels: [110-style for Category 5e] [110-style for Category 6] [Field Installed Cat6A Patch Panels Utilizing Cat6A Keystone Jacks] Provide blocks or Patch Panels for the number of cables installed.
 - C. Modular Plug Terminated Links shall be tested in accordance with the guidelines of ANSI/TIA-568.2. Refer to specific field tester manufacturer's instructions for further guidance.