Categor: 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 TIA/EIA-568-C.2, [Category 5e] [Category 6] [Category 6A] cable standards
2. Comply with ANSI/BICSI-005 ESS 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. Direct Attach 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-C.2 and ISO 11801 Ed 2. Cat 6A 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 Power over Ethernet Plus 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

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. Field testing shall be accomplished according to the Optical Cable Corporation method of testing a Field Terminated Plug, as described in the steps below.

A. General Test Procedures:
   1. Connect permanent link adapter to tester main unit
   2. Connect channel adapter to remote unit.
   3. Connect the OCC Field Plug Test Adapter (plug end) to the channel adapter.
   4. Connect permanent link adapter plug end to patch panel port
   5. Select the cable category and type
   6. Select ‘Permanent Link Test’ limit for the category of the link under test

B. This shall be accomplished by using Optical Cable Corp Field Plug Test Adapter Cord. See Figure-1.

Note: Contractor must use the appropriate Test adapter cord, Part Numbers [Cat5e: FPTAC5EKS, Cat6: FPTAC6KS, Cat6A: FPTAC6AKS] for the cable being tested.

OCC application notes for specific test equipment:
1) MPLT-1: Field Testing of Direct Attach Modified Permanent Links Utilizing Fluke DTX-1800
2) MPLT-2: Field Testing of Direct Attach Modified Permanent Links Utilizing Fluke DSX-5000

Figure 1: Modified Permanent Link with OCC Field Plug Test Adapter