**Applications assurance**

When installed per TIA or ISO/IEC standards, a Panduit cabling system can support the following applications in accordance with the cable and connector performance.

**Copper cabling**

100BaseT 802.3u Category 5e or higher

1000BaseT 802.3ab Category 5e or higher

2.5GBaseT 802.3bz Category 5e or higher

5GBaseT 802.3bz Category 6 or higher

10GBaseT 802.3an Category 6A

Wireless Access Point 802.11ac

Power over Ethernet

PoE 803.3af Category 5e or higher

PoE+ 802.3at Category 5e or higher

PoE++ 802.3bt Category 6A recommended

HDBaseT (HD TV) Category 6 or higher

**Fiber Optic cabling**

| **Designation** | **Fast Ethernet  100BASEFX** | **1Gigabit Ethernet  1000BASE-SX** | **1 Gigabit Ethernet  1000BASE-LX** | **10 Gigabit Ethernet  10GBASE** | **40 Gigabet Ethernet  40GBASE** | **100 Gigabet Ethernet  100GBASE** |
| --- | --- | --- | --- | --- | --- | --- |
| [OM1\*](http://www.lanshack.com/PreterminatedAssemblies.aspx) | 2000 M | 275 Meters | 550 Meters | 33 Meters | Not supported | Not supported |
| [OM2\*](http://www.lanshack.com/PreterminatedAssemblies.aspx) | 550 Meters | 82 Meters | Not Supported | Not supported |
| [OM3](http://www.lanshack.com/PreterminatedAssemblies.aspx) | 550 Meters | 300 Meters | 100 Meters | 100 Meters |
| [OM4](http://www.lanshack.com/PreterminatedAssemblies.aspx) | 400 Meters | 150 Meters | 150 Meters |
| [Singlemode](http://www.lanshack.com/PreterminatedAssemblies.aspx) | 5 km at 1310 nm | 5 km at 1310 nm | 10 km at 1310 nm |  |  |