



Cat 5

The AMP NETCONNECT Class D/Cat 5 solution has been designed as an economical entry level copper solution for enterprise networks. The system fulfils all standards requirements and functions for all common services.

Features

- Class D/Cat 5 is suitable for Office, SoHo and harsh environments
- Meets all global standards such as ISO/IEC 11801, EN 50173-x, 50174-x, TIA/EIA 568 standards
- Supports all current services such as: 1 Gigabit Ethernet, Ethernet, Analogue telephony, ISDN, V24
- 25 years global warranty
- Fits all major faceplates and installation environments.

Cat 6

The AMP NETCONNECT Class E/Cat 6 solution has been designed as an economical copper solution for enterprise networks. The system fulfils all standards requirements and allows all common services.

With the additional bandwidth compared to Class D/Cat 5, customers have more headroom and an improved Bit Error Rate.

Features

- Class E/Cat 6
- Suitable for Office, SoHo and harsh environments
- Meets all global standards such as ISO/IEC 11801, EN 50173-x, 50174-x, TIA/EIA 568 standards
- Supports all current services such as: 1 Gigabit Ethernet, Ethernet, Analogue telephony, ISDN, V24
- 25 years global warranty
- Fits all major faceplates and installation environments

Cat 7

For enterprise networks with high speed requirements and long lifetime expectations, Tyco Electronics offers 2 premium High Performance AMP NETCONNECT systems. Both offer Class F and Class FA performance and great flexibility and scalability. Shielded systems are capable of extending an installation's lifetime to up to 15 years with comfortable safety margins. With AMP NETCONNECT's new inserts as well with the new AMP-TWIST-7AS system we are even able to exceed the highest demand: Class FA. The current discussion on 10 Gigabit Ethernet and even new high speed services such as 40 Gigabit Ethernet show the advantage of shielded high speed copper cabling systems.

Features

- Class F/Cat 7 and Class FA/Cat 7A
- Up to triple bandwidth compared to common systems
- Very high EMC performance
- No ANEXT issues or background noise influence
- Cost efficient cable sharing with up to 4 devices over one cable
- Meets all global standards such as ISO/IEC 11801, EN 50173-x, 50174-x, TIA/EIA 568 standards
- Supports all current services like: 10 and 1 Gigabit Ethernet, Ethernet, Analogue telephony, ISDN, CATV, V24
- 25 years global warranty
- Fits all major faceplates and installation environments

10 Gigabit

While 10 Gigabit/s Ethernet is not a requirement for most applications today, it is an expectation for enterprise networks.

Data Center environment.

Organisations looking to install cabling today need to ensure their chosen platform can support 10 Gigabit/s Ethernet to enable migration to the faster data rate in the future.

IEEE 802.3ae (10Gb/s Ethernet over fiber) was ratified in 2002 and resulted in new multimode fiber definitions being established by the international cabling standard ISO/IEC 11801 2nd edition. AMP NETCONNECT XG fiber optic cabling system meets all these standard requirements and offers a 300 m channel length using OM3 system fiber and high class connectivity.

When the standard work for IEEE 802.3an (10Gb/s Ethernet over copper) started, it soon became clear that this application would also result in new definitions in the cabling standards for copper channels. Prior to the ratification of the IEEE 802.3an application standard (10GBase-T) in 2007, international cabling standards had already started to define cabling channels supporting this new high speed copper application.

The first new definition, announced by ISO/IEC 11801 in 2008 in an amendment 1, was a Class EA cabling channel. The AMP NETCONNECT XG copper cabling system complies with this channel specification.

The next step (likely to be finalised by the end of 2009) in the international cabling standard ISO/IEC 11801 (Amendment 2) is the definition of the Class EA permanent link and the required Cat. 6A component requirements. Additionally, a new multimode fiber called OM4 will be added to this paper, achieving a longer reach for 10 Gb/s Ethernet (550 m) and most probably for the upcoming 40/100 Gb/s Ethernet applications.

The AMP NETCONNECT XGA copper cabling system already uses next generation components in order to meet the upcoming ISO/IEC specifications for Cat. 6A components and Class EA permanent links. Tyco Electronics' XGA fiber cabling system now includes fiber optic system cable containing OM4 fiber.