XG Cabling Systems for 10 GBit/s

With a multitude of network infrastructure design choices available today, IT managers are constantly faced with the challenge of how to optimize their data communication requirements. As well as traditional data transfer functions, new IP reliant applications such as VoIP, video streaming, live feeds and surveillance systems for the office and data center are continuously emerging. Consequently, fast and reliable infrastructures are more and more required to ensure that business critical applications and return on investments are optimized and future proofed.

Applications such as Gigabit Ethernet, which have only recently been considered as "high speed services", are rapidly becoming deployed to the desktop. With such speeds serving the work area, even higher bandwidths are required in the backbone and between central servers, and a reduction in latency are fast becoming a key strategy.

Product Facts

Copper Systems:

- **Exceeds Class E_A channel definition of ISO/IEC 11801:2002 Amendment FPDAM 1.1**
- **Proven 10GBase-T performance (IEEE 802.3an) on 100 m channels**
- **Proven Shannon Capacity >24 GBit/s**
- **3rd party certification**
- **Excellent Alien Crosstalk suppression**
- **Excellent Background Noise suppression**
- **Easy installation with Automatic Wire Cutting (AWC)**

Fiber Systems:

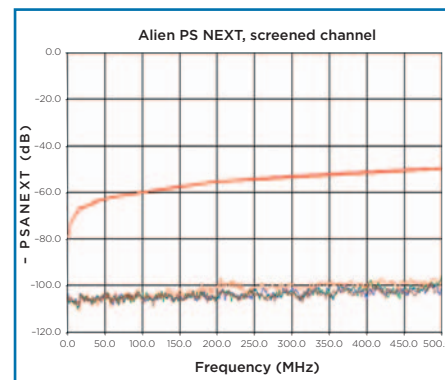**AMP NETCONNECT XG is a complete system for 10 GigaBit networks consisting of:**

- **OM3 System Cable**
- **OM3 Patch Leads**
- **XG Connectors**

AMP NETCONNECT XG System Cable meets the OM3-fiber specifications of the 2nd edition ISO/IEC 11801

Tyco Electronics

Our commitment. Your advantage.
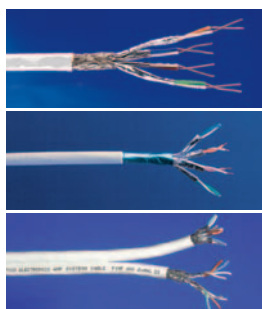
AMP NETCONNECT XG Copper System

The AMP NETCONNECT XG Copper System overcomes Alien Crosstalk & EMI issues by combining Tyco's outstanding screening technology and experience with high performing connecting hardware. The screen of cables and connecting hardware suppresses the negative impact of the external noises into the transmitting channel and ensures an excellent Signal/Noise ratio. The S/N ratio is mission critical for a proper 10GBase-T transmission!

The system features the patented fast automatic wire cutting, which reduces the termination time of a shielded modular jack to less than 1 minute.

Excellent Alien Crosstalk Performance!

AMP NETCONNECT XG Copper System Cables

Product Facts:

Reliable high performance system cables that fulfil the new Cat. 6$_A$/7$_A$ standards. All cables with LSZH jacket.

Type	Performance	AWG	Packaging	Part Number
PiMF Compact Simplex	Cat. 6$_A$/7	23	500 m/Reel	**0-1711163-1**
PiMF Compact Duplex	Cat. 6$_A$/7	23	500 m/Reel	**0-1711195-1**
PiMF 600 Simplex	Cat. 7	23	1000 m/Reel	**0-0057893-1**
PiMF 600 Duplex	Cat. 7	23	1000 m/Reel	**0-1711005-1**
PiMF 1200 Simplex	Cat. 7$_A$	23	1000 m/Reel	**0-1499101-1**
PiMF 1200 Duplex	Cat. 7$_A$	23	1000 m/Reel	**0-1711003-1**

AMP NETCONNECT XG Copper Patch Cords

Product Facts:

Stranded AWG 26 patchcord with 600 MHz performance. Other length and colors on request.

Type	Performance	Jacket	AWG	Part Number
XG PiMF 600 RJ-45/RJ-45	600 MHz	LSZH	26	**0-0959385-1**

Color	Part Number	Color	Part Number
white	**Y-0959385-X**	yellow	**Y-1711078-X**
blue	**Y-1711079-X**	red	**Y-1711080-X**
grey	**Y-1711076-X**	green	**Y-1711077-X**

Y- -X	Length	Y- -X	Length
1- -1	0,5 m	**0- -3**	3,0 m
0- -1	1,0 m	**0- -5**	5,0 m
0- -2	2,0 m	**1- -0**	10,0 m

AMP NETCONNECT XG Copper Connecting Hardware

Product Facts:

This Cat. 6$_A$ RJ-45 die-cast jack with or without dust cover can be terminated in less than a minute (thank to Tyco's AWC technique). Its patented shield clamp with integrated strain relief guarantees easy installation with only 2 parts.
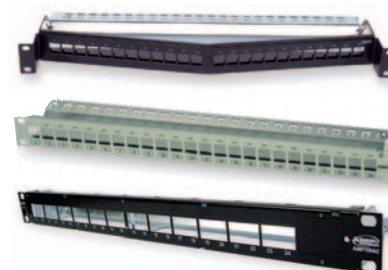
Type	Part Number
AMP-TWIST-6S SL Jack straight exit w/ dust cover	**0-1711160-1**
AMP-TWIST-6S SL Jack straight exit w/o dust cover	**0-1711342-1**
AMP-TWIST-6S SL Jack side exit w/ dust cover	**0-1711295-1**
AMP-TWIST-6S SL Jack straight exit w/o dust cover	**0-1711343-1**

Please select the appropriate faceplate from the NETCONNECT Catalog:

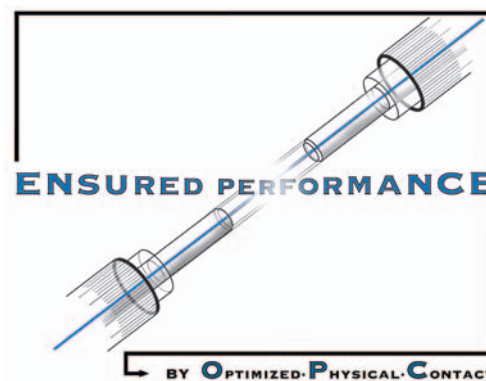**Please select the appropriate patch panel from the NETCONNECT Catalog:**
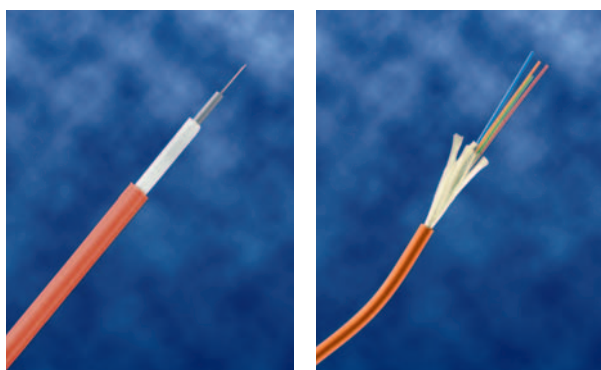
AMP NETCONNECT XG Fiber Systems

The AMP NETCONNECT **XG** System is a high performance multimode fiber optic cabling system which has been designed to meet the requirements of the 10 GigaBit Ethernet and 10 GigaBit Fiber Channel applications.

The system fulfills the specifications of IEEE 802.3ae for 10GBase-SR (10 GigaBit Ethernet serial transmission on 850 nm) and complies to the fiber type and link class definitions of the 2nd edition of ISO/IEC 11801. In addition, the **XG** products also support the complete range of 50/125 µm legacy LED and laser-based applications.

All system components have been designed and optimized to provide the best multimode system performance possible in order to ensure compatibility for the GigaBit and 10 GigaBit network applications.

AMP NETCONNECT XG Fiber Systems

All existing AMP NETCONNECT System Cable constructions can be constructed with the OM3 fiber. Please select the appropriate cable design from the NETCONNECT Catalog.

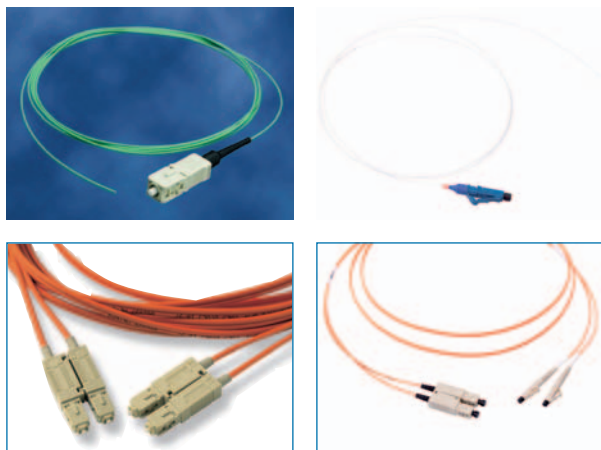| Type	Part Number
XG Office Distribution Cable, 4 fiber	**2-0599144-X**
XG Office Distribution Cable, 6 fiber	**2-0599145-X**
XG Office Distribution Cable, 8 fiber	**2-0599146-X**
XG Office Distribution Cable, 12 fiber	**2-0599148-X**
XG Office Distribution Cable, 24 fiber	**2-0599151-X**
XG Office Distribution Cable, 48 fiber	**2-0599603-X**
XG I/E DLT Cable, 12 fiber	**2-0599156-X**
XG I/E DLT Cable, 24 fiber	**2-0599159-X**
XG I/E DLT Cable, 48 fiber	**2-0599605-X**
XG I/E DLT Cable, Rodent Resistant, 12 fiber	**2-0599617-X**
XG I/E DLT Cable, Rodent Resistant, 24 fiber	**2-0599619-X**
XG I/E DLT Cable, Rodent Resistant, 48 fiber	**2-0599621-X**

All cable are ULSZH-jacketed.   **X = 2** for OM3 Plus fiber

Notes: DLT = Dry Loose Tube; I/E = Internal/External   **X = 3** for OM3 fiber

AMP NETCONNECT XG Fiber Optic Cable Assemblies

Type	Part Number
XG Duplex Patch Cord LC to LC	**Y-6536969-X**
XG Simplex Pigtail LC	**0-6536966-2**
XG Duplex Patch Cord SC to SC	**Y-6536464-X**
XG Simplex Pigtail SC Tight Buffered	**0-6695507-2**
XG Simplex Pigtail SC Semi Tight Buffered	**0-6536561-2**
XG Duplex Patch Cord LC to SC	**Y-6536967-X**

The AMP NETCONNECT **XG** System cable assemblies are LSZH jacketed and contain OM3 fiber. To ensure a maximum performance on VCSEL & FP Laser links, the cable assemblies come with factory tested **Insertion Loss & Return Loss** test results.

Y- -X	Length
0- -1	1,5 m
0- -2	2,0 m
0- -3	3,0 m
0- -5	5,0 m
1- -0	10,0 m

AMP NETCONNECT XG Fiber Systems

Type	Part Number
LightCrimp Plus LC connector Simplex	**0-6754483-3**
LightCrimp Plus SC connector Simplex	**0-6588291-1**

AMP NETCONNECT
XG Connectors
are optimized for
10 GigaBit applications.

AMP NETCONNECT XG Fiber Optic MPO System

Combining pre-terminated cable assemblies
and cassettes makes installation as simple as
"plug&go": mounting the cassettes, pulling
or placing the cables, and plugging the cables
into the cassettes.
Networks can be up and running in days, not
weeks or months.

Type	Part Number
MPO Cassettes	
MPO to LC Snap In Cassette Flipped 12 port	**0-1920209-8**
MPO to LC Snap In Cassette Straight 12 port	**0-1920209-7**
MPO to LC Snap In Cassette Flipped 24 port	**0-1920033-8**
MPO to LC Snap In Cassette Straight 24 port	**0-1920033-7**
MPO to SC Snap In Cassette Flipped 12 port	**1-6695133-1**
MPO to SC Snap In Cassette Straight 12 port	**0-6695133-1**
MPO to MPO Cable Assemblies	
MPO to MPO Cable Assembly OM3 12 fiber	**Y-6695135-X**
MPO to MPO Cable Assembly OM3 24 fiber	**Y-6920014-X**
MPO to MPO Cable Assembly OM3 48 fiber	**Y-6695471-X**

Y- -X	Length
0- -1	10 m
0- -2	20 m
0- -3	30 m
0- -4	40 m
0- -5	50 m

Y- -X	Length
0- -6	60 m
0- -7	70 m
0- -8	80 m
0- -9	90 m
1- -0	100 m

Y- -X	Length
1- -1	110 m
1- -2	120 m
1- -3	130 m
1- -4	140 m
1- -5	150 m

Y- -X	Length
1- -6	160 m
1- -7	170 m
1- -8	180 m
1- -9	190 m
2- -0	200 m

Y- -X	Length
2- -1	210 m
2- -2	220 m
2- -3	230 m
2- -4	240 m
2- -5	250 m

Y- -X	Length
2- -6	260 m
2- -7	270 m
2- -8	280 m
2- -9	290 m
3- -0	300 m

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