

SYSTIMAX® SOLUTIONS

SYSTIMAX® GigaSPEED® Solution Compliance with TIA/EIA 568B.2-1 Category 6 Specification

The approval of the TIA/EIA 568B.2-1 Category 6 specification is a clear endorsement of the SYSTIMAX® Labs vision that delivered the GigaSPEED® Solution in 1997.

After several years in development, the Category 6 specification has been ratified, including end-to-end channel performance specifications that are in line with the GigaSPEED Minimum Channel Performance Guarantee offered to registered SYSTIMAX GigaSPEED installations.

These channel specifications have already been adopted in the development of applications standards such as TIA/EIA-854-A “An Ethernet physical layer specification for 1000 Mb/s operating over Category 6/Class E balanced copper cabling” and the ATM Forum “ATM FB-PHY-0162.000 – Cell-based 1000 Mb/s (CB1G) physical layer specification over singlemode fiber, multimode fiber and Category 6/Class E balanced copper cabling”.

With the approval of TIA/EIA 568B.2-1 SYSTIMAX SCS customers who adopted the GigaSPEED Solution for their infrastructure ahead of the standards ratification can be assured that their investment will deliver the end-to-end channel performance specified in the standard, and will support existing and emerging applications designed to work over Category 6 cabling.

Registered GigaSPEED installations designed and installed by an authorized SYSTIMAX BusinessPartner in accordance with SYSTIMAX SCS Design and Installation Guidelines are guaranteed to comply with the Category 6 channel specifications as specified in TIA/EIA 568B.2-1, and are also guaranteed to support existing and emerging applications that are designed to utilize the Category 6 channel specifications.

It is important to note that in order to comply with the GigaSPEED Minimum Channel Performance Guarantee, the end-to-end channel must be comprised of GigaSPEED and/or GigaSPEED XL components, including all cords, connectors, cable and patch panels¹.

¹ If any SYSTIMAX PowerSUM components are used in the channel, the PowerSUM Channel Performance specifications apply. If only SYSTIMAX GigaSPEED XL components are used, the GigaSPEED XL Channel Performance specifications apply.

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