The case for SYSTIMAX® Category 6A

COMMSCOPE®

Since 2004, SYSTIMAX GigaSPEED® X10D Category 6A portfolio has combined all the compatibility and functionality of Category 6A with CommScope expertise and reliability. CommScope pioneered the development of Category 6A under the SYSTIMAX brand and continues to lead in its applications for HD, A/V, Wi-Fi 6 & 6E, PoE, IB cellular, IoT and much more.

Superior channel performance

- Enhanced cable and connector performance support the latest 10 GbE requirements
- Best in class insertion loss and crosstalk performance, within/among channels
- Exceeds the latest ISO/IEC Class E_A cabling specification

End-to-end solution

- GigaSPEED X10D portfolio includes cables, patch cords, connectors, outlets and panels—all backed by our guaranteed channel performance.
- Product versions include shielded and unshielded, various fire ratings, range of connectors, preterminated, plenum/non-plenum, and low smoke zero halogen designs and more.
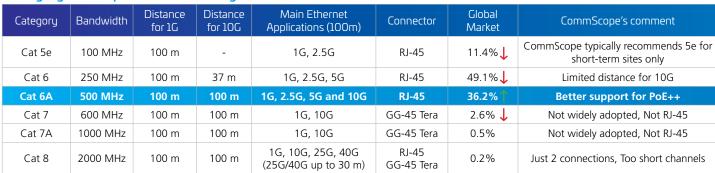
Faster, more efficient design and deployment

- Preterminated solutions eliminate installer errors and accelerate installation
- New, smaller 0.249" (6.3246 mm) outer diameter cable expands routing options and makes handling easier
- Optional integration with imVision® automated infrastructure management

Global availability and support

- Available in 150+ countries
- Global manufacturing/distribution network
- International field application engineer remote and on-site tech support
- SYSTIMAX Application Assurance and 25-Year Warranty

Category 6A compared to other categories

Category	Bandwidth	Distance for 1G	Distance for 10G	Main Ethernet Applications (100m)	Connector	Global Market	CommScope's comment
Cat 5e	100 MHz	100 m	-	1G, 2.5G	RJ-45	11.4%↓	CommScope typically recommends 5e for short-term sites only
Cat 6	250 MHz	100 m	37 m	1G, 2.5G, 5G	RJ-45	49.1%↓	Limited distance for 10G
Cat 6A	**500 MHz**	**100 m**	**100 m**	**1G, 2.5G, 5G and 10G**	**RJ-45**	**36.2%↑**	**Better support for PoE++**
Cat 7	600 MHz	100 m	100 m	1G, 10G	GG-45 Tera	2.6%↓	Not widely adopted, Not RJ-45
Cat 7A	1000 MHz	100 m	100 m	1G, 10G	GG-45 Tera	0.5%	Not widely adopted, Not RJ-45
Cat 8	2000 MHz	100 m	100 m	1G, 10G, 25G, 40G (25G/40G up to 30 m)	RJ-45 GG-45 Tera	0.2%	Just 2 connections, Too short channels

Connect with CommScope and keep evolving

The changes in the enterprise network are both empowering and disruptive. Rely on CommScope. For 40+ years, our vision and expertise have helped enterprise networks of all sizes adapt and evolve. We keep you ahead of the curve, ready to navigate to what's next.

For more information on Category 6A, visit commscope.com or contact your CommScope representative.