

# Bridging the multi-gig Ethernet gap

## Demand for multi-gigabit connections

Fueled by the introduction of technologies like Wi-Fi 6E, the number of connected multi-gigabit devices is surging. Many center on 2.5 and 5 Gbps applications.

## The multi-gig donut hole

The 2.5G/5G “donut hole” is a challenge for enterprise network managers.

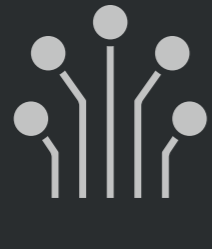

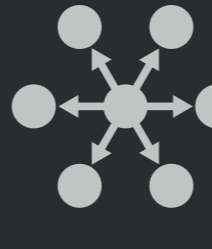

Can't ensure standard-based support with conventional Cat 5e or Cat 6 cabling

**BUT**

## What are your options?




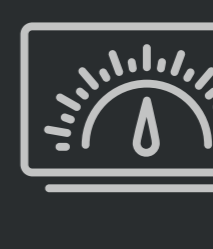
### Use existing Cat 6 according to NBASE-T Guidelines

Mitigation involves one or more steps:

 <b>Separating equipment cords</b>	 <b>Setting equipment ports to “auto-negotiation” mode</b>	 <b>Unbundling horizontal cabling</b>	 <b>Using non-adjacent ports for higher speed</b>
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If mitigation fails then...





### Rip out the Cat 6 cabling and replace with Cat 6A

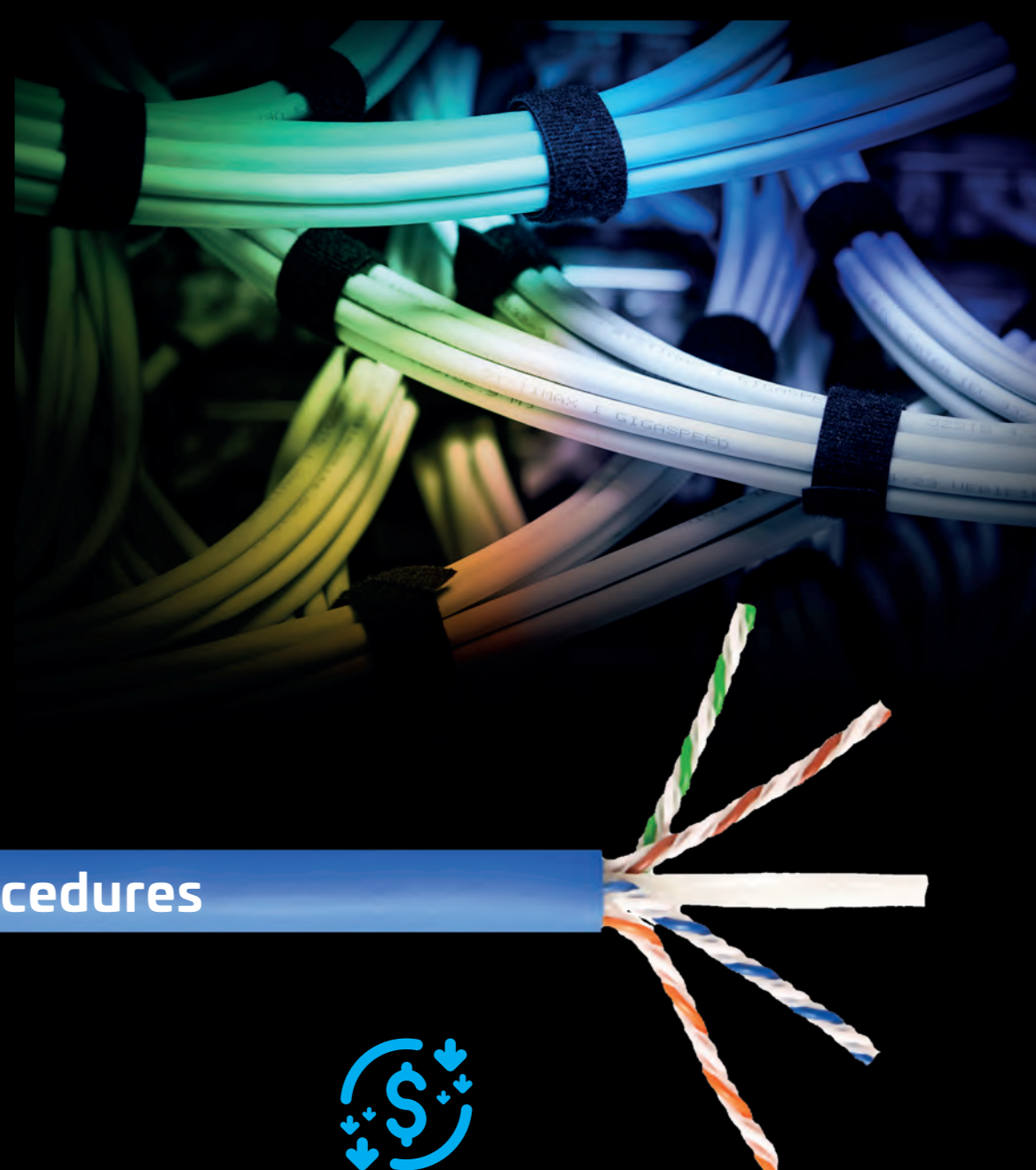
 <b>Significant network downtime</b>	 <b>Highly disruptive to daily workflow</b>	 <b>Costly and resource intensive</b>	 <b>Difficult to justify if you're only using half the available bandwidth</b>
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## ...or think outside the category!










## SYSTIMAX<sup>®</sup> GigaSPEED<sup>®</sup> XL5

A Cat 6 solution that supports 2.5 and 5 GBE up to 100 meters... no mitigation or upgrades required.

-  Patented variable twist/strand technology greatly improves internal/alien crosstalk performance
-  An end-to-end solution
-  Supports up to 5 Gbps in a four-conductor 100 m channel with fully bundled horizontal cables
-  Ideal for connecting devices like in-ceiling Wi-Fi 6E access points, IP security cameras and more



### Use your existing XL installation tools and procedures

 <b>Cable diameter is nearly identical to GigaSPEED XL Cat 6 solution</b>	 <b>Pack more bandwidth and performance in a compact footprint</b>	 <b>Reduce your cost of installation, equipment and training</b>
The transition from Wi-Fi 6 to more bandwidth-heavy Wi-Fi 6E or Wi-Fi 7 has begun.	 <b>IP surveillance and security</b>	 <b>Server-to-switch connectivity</b>
But applications requiring 2.5G and 5G support are growing.	 <b>Support Power over Ethernet (PoE)</b>	 <b>High-performance workstations</b>
	 <b>Support Power over Ethernet (PoE)</b>	 <b>Campus WLANs</b>

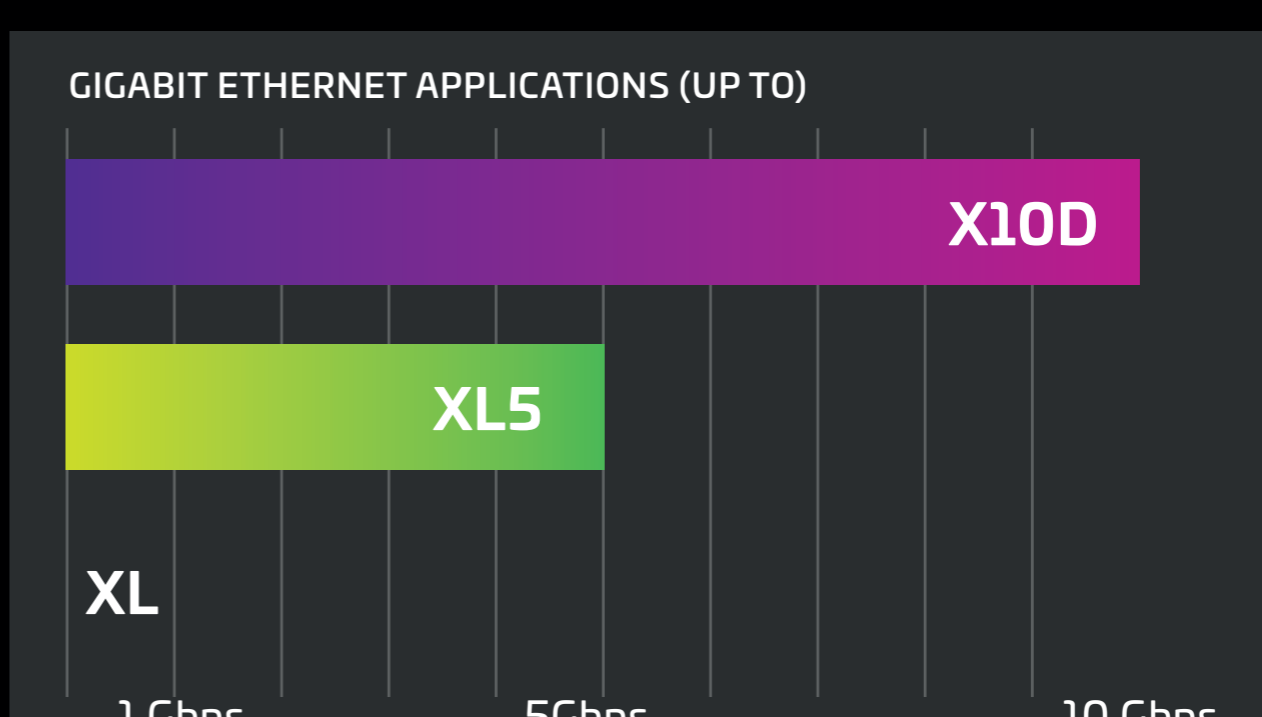
## Bridge the gap

A solution that supports 2.5 and 5.0 GbE bandwidth demands without mitigation or upgrades.

The latest addition to the SYSTIMAX GigaSPEED family of copper solutions.

Seamlessly evolve as your bandwidth demands increase.

Available now as part of the new SYSTIMAX 2.0 portfolio.



## GigaSPEED XL5: in a category all its own

Cat 5e	Cat 6	XL5	Cat 6A
			
<b>Not dead yet...</b> Don't even think about pushing it to high speed	<b>Keeps running</b> Expect at least “moderate” maintenance if/when pushed to higher speed	<b>Brand new</b> Built to work at higher speed. Comes with bumper-to-bumper dealer warranty	<b>Assured to work at highest speeds</b> Most future ready
<b>HIGH RISK</b>	<b>MEDIUM RISK</b>	<b>ZERO RISK UP TO 5G</b>	<b>FUTURE READY</b>