The wire, cable and connectivity evolution

Did you know the wire, cable and connectivity industries constantly evolve to respond to dynamic market trends?

High-speed technology is becoming more prevalent as consumers, retailers and brand owners alike require more speed, power and mobility in the devices we use daily. As a result, connectivity product designs, such as cables, must evolve to provide solutions to address key wired technology demands.

More power
The new USB Power Delivery Extended Power Range (EPR) allows for power delivery up to 240 W—enough for larger televisions, gaming monitors and other powered applications.

Proper shielding is key
High-speed cables can emit substantial radiation that could interrupt peripheral wireless device operation if the cables are not properly designed and shielded.

Protection from dangers
Ethernet cables employing copper-clad aluminum conductors have higher electrical resistance, which can impair signal transmission quality and pose potential fire risks in Power over Ethernet (PoE) applications.

New assemblies …
Active optical cable assemblies play an important role in transmitting high-volume video, audio and data signals long distance in various consumer electronics and networking applications.

… requiring extra codes
AOC assemblies may appear in specific building locations where the National Electrical Code (NEC®), Construction Products Regulation (CPR) and United Kingdom Conformity Assessment (UKCA) could apply.

Faster data transfer
A maximum data rate of USB4® specification operates at 80 times higher than USB 2.0 specification, allowing it to support 8K video and faster data transfer rates.

To learn more about UL’s solutions for high-speed wired connectivity, visit UL.com/highspeed.