

Proterial Cable America Launches Breakthrough Cat 6A Cable with Reduced Diameter

Manchester, NH – Feb. 1, 2025—Proterial Cable America (PCA) announced a significant innovation in engineering with their new Category 6A Supra 10G-RD cable with a reduced outer diameter, which was 0.270” but is now only 0.240”. This reduction allows for 26% more cables to be installed in the same amount of space, perfect in locations like data centers, universities, and hospitals, where space optimization is vital.

“This technology will make for more sustainable cable while maintaining performance,” says Joe Barry, Chief Operating Officer of the Proterial Cable America Performance Cable Division. “The Cat 6A-RD is a major accomplishment that we’re excited to share with our customers.”

The outer diameter reduction is mainly due to materials science advancements—using the same noise control barrier from the previous Cat-6A design optimized alien crosstalk performance and lead to the opportunity for a smaller cable size.

“Years ago, we started with a diameter of 0.350”, and the idea of reaching 0.240” would have been unheard of,” says Eduardo Garza, Director of Product Development and Engineering at PCA. “From a process perspective, the ability to operate with tighter tolerances has opened the window to formulating a design this size.”

The cable is UL verified, and supports POE applications, ensuring reliability and compliance with industry standards.

Customer responses and requests have always been a priority for PCA, and since the Cat 6A standard was released in 2009, the request for a smaller, more efficient cable has been consistent. In fact, a key objective for PCA over the next several years will be to minimize product size and weight while maintaining cable performance. The Cat 6A-RD is the first example of the goal being achieved.

In addition to the smaller size, the Cat 6A-RD is also a more sustainable option. Smaller cables mean less materials, in fact with Cat 6A-RD, 20 reels fit on each pallet, representing a 66.67% increase, which leads to a reduced carbon footprint. In addition to the increased shipping density, we now offer our Cat 6A-RD in a Reelex box as well.

About Proterial Cable America:

Proterial Cable America, previously known as Hitachi Cable America, and based in Manchester, NH, is a leading manufacturer of high-quality materials and components for

the networking infrastructure, medical, automotive, defense, and data communications sectors.

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