



POWERING THE EVOLUTION OF 5G & BROADBAND

5G and Broadband technologies are already revolutionizing communications as we know it, and in the very near future, how our smart devices wirelessly communicate with each other will be drastically different. And what's quietly powering and enabling this evolution in data and communications are pioneering cable technologies from Superior Essex.

With versatile designs available that offer a wide range of fiber counts and copper pairs, Superior Essex has the hybrid cables you need to meet any deployment requirement – providing true 5G connectivity wherever you want it.





THE FUTURE OF DATA

Our family of in-building and OSP hybrid products combines copper and fiber into a single cable to transmit both power and data with unparalleled efficiency - no matter the environment or application.

Telco Hybrid Cable

- Perfect for line-powering any remote device (small cells, DSLAMS, Digital Signage, DAS)
- Protected by a corrugated steel or aluminum armor and encased within a weather-resistant jacket

Tower Hybrid Cable

- Perfect for line-powering tower-mounted Remote Radio Heads and Active Antennas
- Reduces the number of cables on a macro tower
- UL 1227 listed designs

PowerWise™ Hybrid Cable

- Perfect for in-building stadium, DAS, small cell applications
- Plenum-rated designs (conductors available in 12 to 18 gauge)

HYBRID CABLES THAT BRING YOU THE BEST OF ALL WORLDS

Unparalleled Efficiency

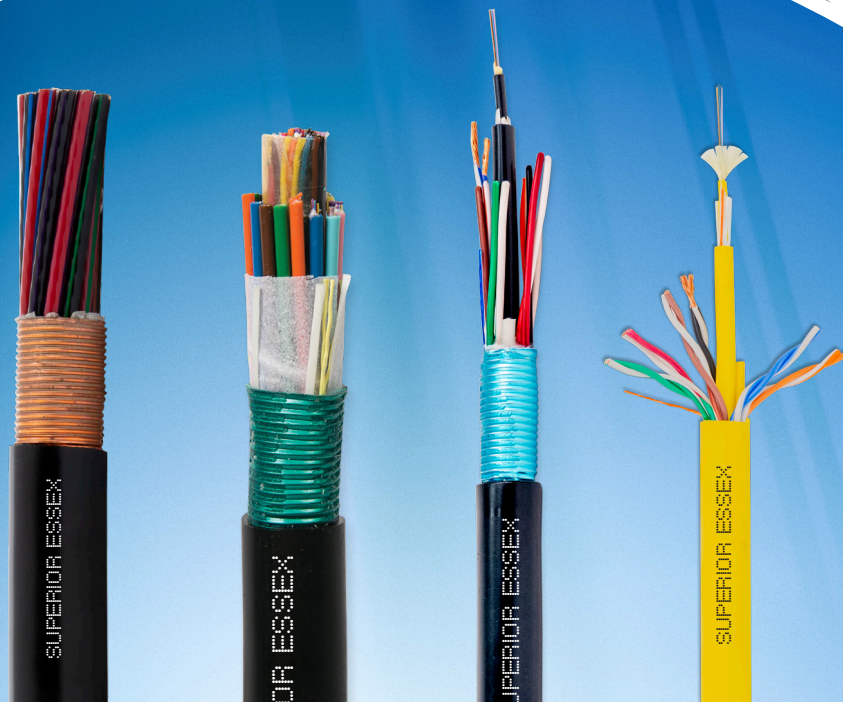
- Multiple designs and flexible configurations for both power and data applications
- Designed to reduce the number of cables required for any deployment

Peerless Reliability

- Engineered for ruggedness, durability and to support the next generation of 5G communications
- Designed to withstand the toughest environments to ensure long-term connectivity

Industry-Leading Sustainability

- Manufactured to reduce materials and waste
- Designed to maximize space and lower installation time and costs



THE IMPACT OF 5G TECHNOLOGY

5G connectivity is a huge jump forward in communications technology, offering 10x faster connections and far lower latency than ever before. As a result, the promise of 5G includes smarter homes and buildings, self-driving cars, instant movie streaming, cloud gaming, augmented and virtual reality and so much more.

However, since 5G wireless communications operate with a short wavelength and a high frequency on new segments of the millimeter-wave spectrum, each access point has a maximum range of just 250 meters. Thus, for 5G to truly work, service providers must densify the 5G network with ever more wireless access points.

This can only be accomplished by creating a mesh of service – a blanket of connectivity – overlain across an entire neighborhood, city, region and country. And every single one of the millions of nodes in the forthcoming 5G network will require both power and data to run smoothly and communicate consistently.

THE CABLES THAT KEEP US CONNECTED

Predicting this current and future need, Superior Essex has designed and manufactured multiple hybrid cabling solutions for numerous 5G applications, including:

- Line-powering outdoor small cell deployments
- Transmitting both power and data to in-building small cell deployments
- Transmitting both power and data to tower-mounted Remote Radio Heads and Active Antennas

By simultaneously providing both DC power (via copper) and data (via optical fiber), our family of hybrid cables addresses every need of new 5G deployments by meeting multiple service provider and capacity requirements. Moreover, they do so while constantly producing high-bandwidth, low-latency, lightning-fast data rates alongside a reduction in wind resistance and an immunity to electromagnetic interference.