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Power over Ethernet Plus (POE+)

Committees in both [IEEE](#) and [TIA](#) are working to enhance the current Power over Ethernet specification, IEEE 802.3af, to allow higher amounts of power over UTP cable.

Currently, IEEE 802.3af allows up to 13 Watts of power at 48 Volts. All Superior Essex branded cables meet the current requirements IEEE 802.3af. The new standard, IEEE 802.3at, will allow, at a minimum, 30 Watts of power and, possibly, up to 55 Watts depending on the cabling.

TIA is providing guidance regarding what cables will be able to meet this new PoE+ specification. The cables that will likely be required will be Cat 6 and/or Cat 6A cables. If approval of the new standard continues in its current direction, all CAT 6 cables, (including DataGain, NextGain and 10Gain) from Superior Essex will meet the new specification.

The advantage of this new IEEE standard is that it will allow the powering of devices that were not possible with IEEE 802.3af. These include video cameras, wireless access points, IP telephones, and "thin client" Personal Computers. It is expected that the standard will be approved sometime in 2007.

Standards Update

The Insulated Cable Engineers Association (ICEA) held its annual meeting Sept 11-14 in Charleston, SC. As a result of ballots in the ICEA Communications Division the following standards will be sent to the American National Standards Institute (ANSI) for approval:

- ICEA S-87-640, Optical Fiber Outside Plant Communications Cable
- ICEA S-112-718, Optical Fiber Cable for Placement in Sewer Environments
- ICEA S-98-688, Broadband Twisted Pair Cable, Aircore, Polyolefin Insulated, Copper Conductor
- ICEA S-99-689, Broadband Twisted Pair Cable, Filled, Polyolefin Insulated, Copper Conductor
- ICEA S-106-703, Broadband Aerial Service Wire, Aircore, Polyolefin Insulated, Copper Conductor

[ICEA Web site](#)

Ask the Experts

What is AWG?

Q: What is AWG, and why do lower AWG numbers represent larger conductor sizes?

A: AWG stands for American Wire Gauge and is the U.S. standard used for non-ferrous conductor sizing. "Gauge" refers to the conductor diameter. The conductor sizes most commonly used in telecom cables are 19, 22, 24 and 26. With sizing, the higher the AWG number the smaller the conductor size. AWG originally corresponded with the number of times a wire was passed or drawn through a series of dies in order to reduce it to the required size. The more times the wire was drawn the smaller the wire became. A 24 AWG conductor required that the wire be drawn through dies or machinery 24 times, larger 22 AWG conductors required drawing through the dies only 22 times.

For additional information about AWG or other technical issues related to cabling, contact Technical Support at Superior Essex at 877.263.2818.

techsupport@spsx.com.

New Shutterbug Contest Winner



Photos submitted from an OSP and Premises application at the Kennedy Space Center have been selected as the winning entry for September 2006 Superior Essex Shutterbug Contest.

The NASA project created new support buildings for launch pads 39A and 39B. The cables were installed by Indian River Connections, and supplied by Graybar.

Photo A: Speedwrapped Superior Essex premises copper and fiber cables have been installed in the support building's cable tray.

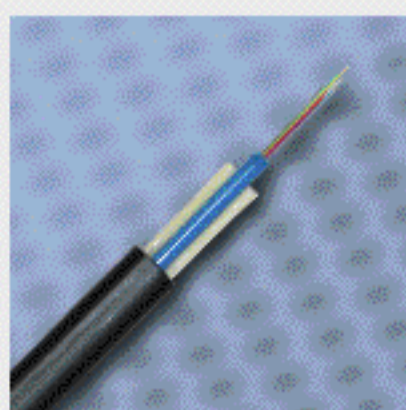
Photo B: Superior Essex OSP cable is displayed with the launch pad in the background.

You can be a shutterbug winner too. All you have to do is send us your favorite digital photo in a .jpeg format of an installer, technician, contractor or a Superior Essex cable installation along with a brief description of the photo and the company where the subject works. Winners, chosen by Superior Essex, will receive a \$25 Lowe's gift card. A new winner will be selected every other month. Once submitted, photos become of the property of Superior Essex.

Submit to gayleraywatson@spsx.com

[Kennedy Space Center](#)

Featured Product



Fiber to the Premises (FTTP)

Fiber-to-the-Premises installations in cramped duct, direct bury or aerial applications are now easier to pull thanks to a line of Universal Drop FTTP cables from Superior Essex. The Universal Drop FTTP cable is a flexible, small profile solution designed with two rigid dielectric rods for tensile and crush protection. Both PFM gel and "dry" water absorbing threads are used to prevent the migration of moisture. The single enhanced loose tube cable - containing up to twelve optical fibers - is available in a black, weather resistant jacket of polyethylene or PVC.

For jobs that call for locating buried fiber optic lines, the Universal Toneable Drop cable from Superior Essex offers all of the benefits of the Universal Drop cable, plus a 24 AWG copper locating wire.

Both Universal Drop and Toneable Drop are now available in an OFNR version. This cable can be used both outdoors and in a riser environment indoors. Universal Drop and Toneable Drop are available in packages of 2500 foot reels and 1000 foot reel in a box.

For aerial support, choose the Figure 8 FTTP cable from Superior Essex. This small profile cable contains all the benefits of the Universal Drop Cable and incorporates a 2.1mm solid steel strand that helps reduce problems associated with wind and ice. It is available in a weather resistant PVC jacket design.

[Universal Drop FTTP](#)

[Universal Toneable Drop](#)

[Figure 8 FTTP](#)

Useful Links

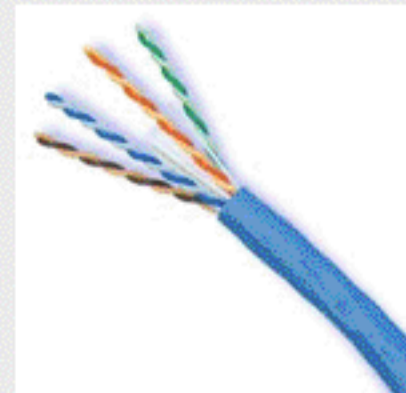
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