

Siemon publishes whitepaper and webinar on delivering power over twisted-pair cabling

October 2013 — Siemon, a leading global network infrastructure specialist, has published a new whitepaper offering information and insight on the latest standards, trends and best practices for deploying remote power to network devices. The detailed, four-page whitepaper entitled 'The Advantages of Using Siemon Shielded Cabling to Power Remote Network Devices', highlights the specific technological advantages of using shielded cabling systems for power over Ethernet (PoE) and other remote powering applications.

With more than 100 million PoE-enabled ports purchased annually, a new 4-pair IEEE 802.3 PoE application on the horizon, and advanced standards-based technology ready to deliver up to 100 watts of power (enough to power a television), delivering dc power over twisted-pair cabling has revolutionised the look and feel of the IT world. Siemon's whitepaper examines the effects of the rising number and variety of devices supported by remote powering technology and the need for proper selection of network cabling. As the author, Valerie Maguire warns, careful cabling selection is important to eliminate the risk of damage to connector contact integrity, due to arcing when equipment is unmated under load conditions, and temperature rise within cable bundles that can contribute to higher insertion loss, failures and downtime.

The paper offers valuable information on the advantages that qualified IEC-60512-99-001-compliant shielded category 6A and category 7A connecting hardware and advanced shielded cabling provide when deploying remote powering technology, as well as an overview of all relevant standards requirements. It includes an example of a connector design that ensures that critical contact seating surfaces are not damaged when plugs and jacks are mated and unmated under remote powering current loads, plus an update on the activities of the IEEE 4-Pair Power over Ethernet Study Group.

"As the market for remotely powered IP devices continues to grow and even more advanced powering technology is deployed, the ability for connectors and cable to perform under dc power load conditions has emerged as a critical factor," says Valerie Maguire, author of the paper and global sales engineer for Siemon.

"Fortunately, all Siemon's Z-MAX® shielded category 6A and TERA® shielded category 7A cables and connecting hardware are proven to ensure stable and reliable transmission performance and contact integrity under the demanding operating environments of advanced remote powering applications. Our hope is that this whitepaper helps to educate the industry about the effects of using copper balanced twisted-pair cabling to remotely power IP-enabled network devices, whilst highlighting the advantages of Siemon's shielded cabling systems for these applications."

'The Advantages of Using Siemon Shielded Cabling to Power Remote Network Devices' whitepaper and webinar are available for download by visiting:

<http://www.siemon.com/shielded> <<http://www.siemon.com/shielded>> .