

# Siemon launches new category 7 patch cords with integrated baluns for high density video transmission

**New Siemon patch cords with integrated baluns provide single outlet support of multiple high-definition video signals.**

*Hybrid TERA<sup>®</sup> to F-Type or PAL baluns allow four individual TV, CATV, CCTV or other high-definition video signals to be transmitted over a single twisted-pair network cable and outlet.*



Siemon introduces new hybrid patch cords designed to provide a high density and efficient solution for transmitting video signals over twisted-pair network cabling. These new cords combine a one-pair TERA plug with an integrated F-type or PAL balun, allowing direct support of video equipment such as CATV receivers, CCTV cameras, DVD players and televisions through a category 7A TERA network infrastructure. Specified and useable to 1000MHz, they far exceed the 862MHz requirement for high-definition signals.

Through TERA's unique cable-sharing capability, four of these one-pair cords can interface with a single TERA outlet and cable. Accepted by both TIA and ISO, cable sharing can reduce the overall number of channels required to support video transmission, effectively quadrupling connectivity density without increasing permanent link cable density. Additionally, by utilizing the same high-performance cabling plant for both data and video, the need for additional coaxial or other video-specific channels is eliminated.

No additional converters or adapters are required to connect to standard video equipment. The integrated baluns convert unbalanced video signals designed for coaxial cabling at 75ohms impedance to balanced 100ohm impedance signals required for transmission over balanced twisted pair cabling. The integrated F-type or PAL connectors are compatible with standard North American and European video equipment interfaces.

While the ability to cable-share and reduce cabling channels utilizing hybrid TERA video cords makes Siemon's TERA cabling solution ideal for a wide range of video

applications such as CCTV security systems, video conferencing, CATV broadcasts and more, cable sharing is not limited to video. With a variety of one, two and four-pair hybrid TERA to RJ patch cord options, multiple voice and data applications can also be simultaneously supported by a single TERA outlet and cable: four analogue phones, two VoIP phones, two 10/100 Ethernet connections or a combination of the above. When utilizing all four pairs, the TERA category 7A cabling system offers performance well in excess of 10Gb/s.

"The video cords add a new dimension to the TERA system's flexibility," explains Tony Veatch, Siemon's TERA product manager. "In environments like hotel rooms, video entertainment, data and phone service can be supported by a single outlet. In call centres you can run two phones and an Ethernet data connection. In extremely dense environments such as a financial trading floor, you could support four live video market feeds, four phones and two Ethernet ports with just three TERA channels. In this example, the limitations of cabling such as coax and category 5e and 6 UTP would force you to install 10 individual channels to TERA's three."

In addition to lower material and installation costs, cable sharing using Siemon's TERA solution offers rack space and real estate savings compared to conventional cabling.

#### About Siemon

Established in 1903, Siemon is an industry leader specialising in the manufacture and innovation of high quality, high-performance network cabling solutions. Headquartered in Connecticut, USA, with global offices and partners throughout the world, Siemon offers the most comprehensive suite of copper (unshielded and shielded twisted-pair) and fibre cabling systems available. With over 400 active patents specific to structured cabling, Siemon Labs invests heavily in R&D and development of industry standards, underlining the company's long-term commitment to its customers and the industry.

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