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## Stewart Connector's Small Diameter Category 6 RJ45 Plugs Target Patch Cables in Data Center Applications

*Devices Terminate AWG 28 and AWG 30 Cables and Accommodate a Cable Diameter up to 0.160"*

GLEN ROCK, Pa.--(BUSINESS WIRE)-- [Stewart Connector](#), a division of [Bel Fuse Inc.](#), (NASDAQ: BELFA) (NASDAQ: BELFB) today announced the release of [small diameter Category 6 RJ45 plugs \(SS-39100-039\)](#). The new RJ45 plugs are the newest members of Stewart Connector's family of parts engineered to support Gigabit Ethernet (1000Base-T). Offered to meet the requirements of small diameter patch cables in data center environments, the 8-position, 8-wire, UTP modular plugs terminate most 4-pair, AWG 28 and AWG 30, 100 Ohm, stranded and solid unshielded twisted pair cable. Parts accommodate a maximum cable diameter up to 0.160" and copper conductors with overall insulated conductor diameters of 0.025" through 0.030". Stewart Connector's small diameter CAT6 plugs notably feature a proprietary contact design and wire alignment system to ensure proper cable-to-plug terminations and robust connections. They are provided with a pair manager to facilitate precise conductor placement, repeatable assemblies, and consistent long-lasting patch cord performance. Additionally, a boot is included to provide bend relief at the cable exit, protect the plug latch with a snag-less tab, and give the finished cable assembly a streamlined appearance.

Optimized for use on CAT6 AWG 28 and AWG 30 patch cords, the unshielded modular plugs are engineered for use in data center applications where the density at the rack level is high, which causes more heat to be generated by the equipment and more cooling is required to ensure its performance. Cable bundles comprised of AWG 28 and AWG 30 patch cords are 50% smaller than traditional CAT6 cables, which help facilitate improved airflow and cooling efficiencies to reduce operating costs and help physically manage large numbers of cables in a limited space.

Plug, load bar and wire aligner are manufactured of UL94-V0 polycarbonate and feature 50 microinches gold-plated contacts for robust, long-lasting connections. Additional specifications include an operating temperature range of -40 degrees C to +85 degrees C, and durability of 750 matching cycles. Voltage rating is 150 VAC, and current rating is 1.5 A @ 25 degrees C. Parts are field installable with standard Stewart Connector's termination tooling. For detailed information on Stewart Connector's complete [modular plug](#) offering, visit <http://belfuse.com/ethernet/modular-plugs/>.

Average pricing for Stewart Connector's small diameter RJ45 CAT6 (SS-39100-039) plugs is \$0.48 each in quantities of 2,500. Delivery is 4 to 6 weeks. Samples are available.

### About Bel

Bel ([www.belfuse.com](http://www.belfuse.com)) is primarily engaged in the design, manufacture, and sale of products used in aerospace, data transmission, military, transportation, and consumer electronics. Bel's product groups include Magnetic Solutions (discrete components, power transformers and MagJack7 connectors with integrated magnetics), Power Solutions and Protection (AC-DC power supplies, DC-DC converters, custom designs, miniature, micro, surface mount and resettable fuses) and Connectivity Solutions (micro, circular, filtered D Sub, fiber optic, RF connectors, microwave components, passive jacks, plugs and cable assemblies). The Company operates facilities around the world.

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