



Cleerline Introduces Serial-to-Fiber Converter for Extreme Environment Applications

Durable housing is IP40 rated, enabling the 2-piece converter to operate in extreme environments, converting RS-232/RS-485 serial to fiber and back over single single-mode or multimode fiber.

PLEASE VISIT CLEERLINE AT THE 2025 LIGHTPALOOZA IN DALLAS, JAN 20-23, BOOTH 216

Missoula, Montana, January 7th, 2025 — The Cleerline Technology Group, market leaders in fiber optic connectivity solutions for commercial and residential technology applications, has introduced the SSF-SERIAL-RUGGED, a 2-piece IP40 industrial rated converter that delivers critical serial-to-fiber and back conversion for extreme environments such as weather boxes, outdoor lockers, and other harsh locations. This new rugged converter enables integrators to provide the performance and durability of a fiber infrastructure while effortlessly connecting to an array of commercial and residential devices for applications such as lighting, access control, automated pool covers, HVAC systems, and more.

“Integrators must be able to install electronics in extreme environments that provide interface, control, and feedback of connected systems reliably—and offering the durability and performance of a Cleerline fiber infrastructure represents a significant advantage over legacy copper conductors,” explained Rick Sant, Managing Partner at Cleerline Technology Group. “Our new IP40-rated converter easily facilitates connectivity between fiber and RS-232 or RS-485 devices within our fiber infrastructure, creating an industrial grade connectivity solution with unprecedented reliability.”

Integrator Testimonial

“The Cleerline IP-40 rated Serial-to-Fiber converter is a go-to solution for us here at ResCom Electric and Integration because it’s durable, non-conductive, and allows us to install fiber that delivers massive bandwidth for the gates and remote lighting projects we design and install for our clients,” explained Rich Conklin, Principal Engineer at Michigan based ResCom Electric. *“We do commercial projects with numerous remote buildings as well as residential developments and luxury homes where communication to the gate could be a mile away—and Cleerline’s Serial-to-Fiber converter frees us from having to deploy costly additional processors—their fiber infrastructure and rugged IP-rated devices are an effective and reliable solution for us.”*

Technically Speaking

The Cleerline industrial rated IP40 SSF-SERIAL-RUGGED converter operates in extreme environments (-40°C to 75°C /-40°F to 167°F), transmitting over a single fiber, either single-mode or multimode. This converter ships as a matched set and easily installs to allow reliable, extended serial connections. The converter accommodates a wide 12V-52V voltage input and is compliant with IEC and EN standards for industrial grade equipment.

Specifications

- The industrial IP40 rated SSF-SERIAL-RUGGED converter is sold as a pair
- Supports point to point and point to multipoint transmission
- Automatic baud data rate signal detection

- Supports power isolation
- Protection against electrical interference and chemical corrosion
- Data rates up to 256 Kbps
- Wide 12V-52V voltage input, power consumption 1.5W (external power supplies required)
- 1500W surge protection, 15KV electrostatic protection.
- Multimode 1KM (Single fiber),
- Single mode 20KM (Single fiber)
- Port takes a single SC Connector

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About Cleerline Technology Group

The Cleerline Technology Group was founded in 2012 as an affiliate of D'Addario & Co by principals Robert D'Addario, Ryan Prentice, and Rick Sant, with headquarters in Missoula, Montana. Through meticulous design and innovation, Cleerline has created a line of premium fiber optic cables and installation tools that deliver unsurpassed performance with best-in-class durability, flexibility, and ease of use. Cleerline SSF™ (Stronger, Safer, Faster-to-terminate) fiber optic cables employ a unique Glass-Glass-Polymer design that can be safely terminated in as little as one minute, establishing a benchmark for professional installers seeking to deliver best performance to their clients. Cleerline fiber optic cables make smart homes and businesses brilliant. cleerline.com

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