

# CRESFIBER8G-P

## CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4, plenum

High-performance CresFiber® 8G is multimode graded-index fiber optic cable engineered by Crestron® to deliver extended bandwidth for the reliable installation of multimode fiber-based Crestron systems. CresFiber 8G is tested to wavelengths up to 1550 nm, surpassing the performance of previous generation CresFiber as well as generic OM2 and OM3. Featuring ultra high-bandwidth laser-optimized cores, CresFiber 8G guarantees consistent performance over wire runs up to 1000 ft (300 m) for all DigitalMedia 8G™ Fiber solutions, as well as for standard DigitalMedia™ Fiber, Crestron HDMI® over Fiber, and other multimode fiber applications.<sup>[1]</sup>

CresFiber 8G provides four individually jacketed fiber strands within a single reinforced outer jacket. Since many Crestron fiber applications require only one or two strands, the extra strands available in CresFiber 8G provide ample spares for backup, or may be utilized to support multiple devices over a single cable run. Breakout cable construction helps simplify termination, eliminating any need for a separate breakout assembly or intermediary splice.

Available in 500 and 1000 ft spools, model CRESFIBER8G-P is plenum-rated for use in an environmental air-handling space. (For non-plenum indoor riser applications, use [CRESFIBER8G-NP](#).) Foot markers are printed on the outer jacket making it easy to determine the exact length of each cable run when commissioning the installed system. Termination of CresFiber 8G cable can be accomplished using Crestron [CRESFIBER-CONN-SC50UM-12](#) connectors and the [CRESFIBER-TK](#) termination kit.

## SPECIFICATIONS

### Multimode Fiber Strands (x4)

**Fiber Core:** Type: Multimode graded-index;  
Core/Cladding Diameter: 50/125 µm nominal;  
Minimum Laser Bandwidth/EMB: 600 MHz\*km at 850 nm, 1200 MHz\*km at 1300 nm, 600 MHz\*km at 1550 nm;  
Maximum Attenuation: 2.75 dB/km at 850 nm, 1 dB/km at 1300 nm, 1 dB/km at 1550 nm;  
Dispersion: Less than 6 ns/km between 800-850 nm wavelengths

**Buffer:** Type: Tight;  
Diameter: 900 µm nominal;  
Colors (1-4): Blue, Orange, Green, Brown

**Strength Member:** Material: Aramid yarns

**Jacket:** Colors (1-4): Blue, Orange, Green, Brown;  
Material: Low-smoke PVC;  
Outer Diameter: 0.094 in (2.4 mm) nominal



### Outer Jacket

**Construction:** Breakout with overall jacket  
**Material:** Low-smoke PVC  
**Central Strength Member:** Fiberglass epoxy rod (dielectric)  
**Tape Wrap:** Polypropylene  
**Ripcord:** Yes  
**Outer Diameter:** 0.313 inch (8.0 mm) nominal or less  
**Color:** Orange w/black text

### Mechanical

**Maximum Tensile Load:** 270 lbf (1200 N) for installation, 110 lbf (500 N) for operation  
**Minimum Bend Radius:** 6.3 in (160 mm) for installation, 3.15 in (80 mm) for operation  
**Crush Resistance (EIA 455-41):** 100 N/cm  
**Impact Resistance (EIA 455-25):** 25 impacts minimum  
**Flexing, ±90°:** 25 cycles minimum

### Environmental

**Operating Temperature:** +32° to +185°F (-0° to +85°C)  
**Installation Temperature:** +32° to +167°F (0° to +75°C)  
**Storage Temperature:** -4° to +185°F (-20° to +85°C)

### Weight

40 lb/1000 ft (59 kg/km) nominal

### Rating

OFNP (UL 910), CSA FT6

### MODELS & ACCESSORIES

#### Available Models

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**CRESFIBER8G-P-SP1000:** CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, plenum, 1000 ft spool

**CRESFIBER8G-P-SP500:** CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, plenum, 500 ft spool

#### Available Accessories

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**CRESFIBER-CONN-SC50UM-12:** CresFiber® Fiber Optic Cable Connector (AFL Telecommunications™), SC 50µm, 12-Pack

**CRESFIBER-TK:** CresFiber® Termination Kit (AFL Telecommunications™)

#### Notes:

1. Please consult the spec sheet for each product in your system to verify compatibility and wire distance limitations.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

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