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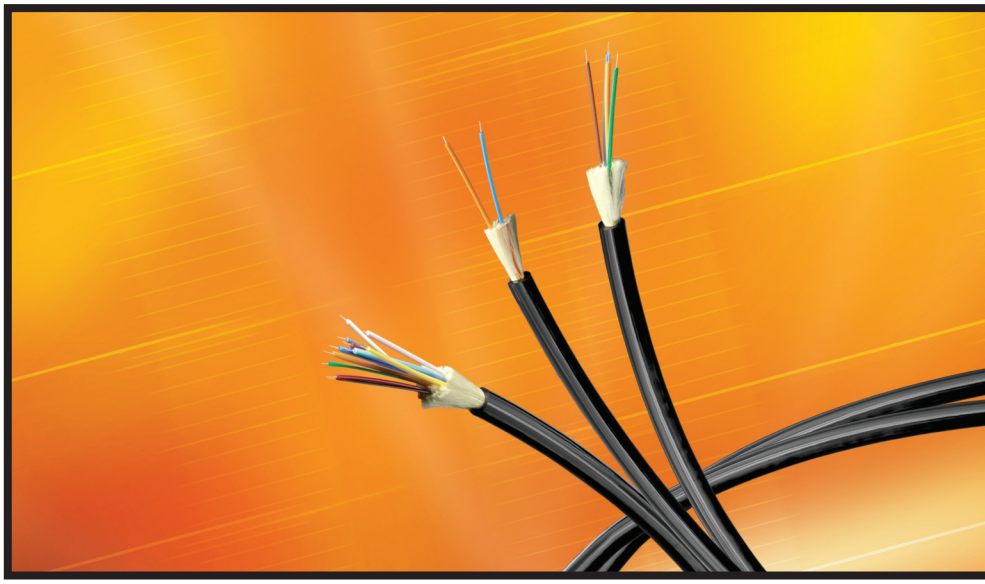
New Product Bulletin

NP 305

Brilliance® MaxiBend™ Tactical Fiber Optic Cables

Belden's newly-designed, field-rugged and bend-resilient MaxiBend Fiber Optic cables meet the stringent requirements of professional broadcasters. These cables are also equally at home in mobile emergency communications, and for mining and industrial applications.



Belden® Brilliance MaxiBend Tactical Fiber Optic Cables Are Small and Lightweight for Fast, Easy Deployment at Outdoor Events

Broadcasters covering professional sporting events outdoors – such as PGA golf tournaments and NASCAR motor sports – face tough challenges in installing their mobile communications and broadcast systems. They are constantly seeking smaller, lighter weight equipment and cabling that can be easily transported in their mobile trucks and installed quickly and easily.

Belden MaxiBend Tactical Fiber Optic cables are designed and constructed to facilitate fast, easy field deployment. These single-mode and multimode cables are ideal for use in digital camera transmissions such as HD-SDI and 1080p/50 or 1080p/60, electronic news gathering (ENG) or electronic field production vehicles. Tactical Fiber Optic cables are also appropriate for emergency communications systems, as well as mining and industrial applications, where ruggedness, long-runs, and bend-tolerance are essential.

Rugged, Yet Flexible Construction Ensures Reliable Outdoor Performance

Designed to military standards, Belden Tactical Fiber Optic cables are newly designed, ruggedly constructed for maximum performance, superior bend tolerance, and reliability. These tight buffered cables feature an aramid yarn strength member and an exceptionally tough, sunlight-resistant polyurethane outer jacket, making them highly resistant to abrasion, crushing and cut-through.

In addition, the cables are smaller and lighter in weight than traditional tactical fiber cables. The result is a smaller bend radius capability and improved flexibility and resiliency (cable memory) over a broad range of outdoor temperatures and weather conditions.

Belden offers its MaxiBend tactical fiber series in eight standard product codes, in single-mode and multimode constructions, with up to 12 fibers and a variety of special options designed to meet a wide variety of application requirements. These options include glass type, fiber count and jacket color and material.

Faster, Easier Installation – Even With Repeated Use

For installers, the benefits of transporting and deploying smaller, lighter, more flexible tactical cables are clear. They occupy less space and add less weight to their mobile trucks. Installation can be performed in less time and with significantly less effort. Their ruggedness and resiliency allows the cables to be deployed repeatedly – and still deliver the quality performance required by the broadcast industry. They are compatible with all optical fiber connector types.

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Field Deployable Tactical Fiber Optic Cables

Single-mode and Multimode Fiber

Applications

- ENG vehicles
- Outdoor news, sporting or other events
- Digital camera transmission
- Military communications
- Re-deployable communications
- Mining and industrial applications

Product Description

Small and lightweight with a rugged jacket, Tactical Cable provides a durable design for repeated deployment and retrieval cycles and a superior level of crush resistance. Designed to military standards.

Jacket Material	UV-resistant PU
Buffer	Polyester
Strength Member	Aramid Yarn
Color Code	
Jacket	Black
Fiber/Buffer	Per EIA/TIA 598-C
Fiber/Buffer 1	Blue
Fiber/Buffer 2	Orange
Fiber/Buffer 3	Green
Fiber/Buffer 4	Brown
Fiber/Buffer 5	Slate
Fiber/Buffer 6	White
Fiber/Buffer 7	Red
Fiber/Buffer 8	Black
Fiber/Buffer 9	Yellow
Fiber/Buffer 10	Violet
Fiber/Buffer 11	Rose
Fiber/Buffer 12	Aqua

Specifications

Temperature Range	
Storage	-70 to +85°C
Operating	-55 to +85°C
Crush Resistance (EIA-455-41)	440 N/cm
Impact Resistance (EIA-455-25)	200 Impacts @ 2.2 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	8 x OD

Optical Specifications

Single-mode Enhanced*	
Operating Wavelength (nm)	1310/1550
Max. Attenuation Tight Buffered (dB/km)	0.80/0.50
Multimode 62.5/125 µm Std./1Gbe	
Operating Wavelength (nm)	850/1300
Max. Attenuation Tight Buffered (dB/km)	3.50/1.25

*Low water peak Single-mode suitable for CWDM use complies with ITU G.652.c/d

Belden Part Number	Belden Part Number	No. of Fibers	Outside Diameter		Weight		Max. Install Load	
Single-mode	62.5/125 µm		Inch	mm	Lbs./ 1000'	kg/ km	Lbs.	N
B96566	**B96571**	2	0.210	5.5	19	28	330	1468
B96639	**B96551**	4	0.225	5.7	21	31	330	1468
B96567	**B96572**	6	0.240	6.0	23	34	330	1468
B96570	**B96575**	12	0.255	7.1	31	46	330	1468

Please contact the Technical Support Group for proper connectivity integration and installation guidance. All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Inside Sales for more details. Other glass types, strand counts and jacket formulations (and colors) are available by special order. Contact your authorized Belden distributor (www.belden.com) or call Belden Customer Service at 1.800.235.3361 (1.800.BELDEN.1)

Fiber Bundle Detail