

APPLICATIONS

FIBER-FLEX® Festooning Cable is designed primarily for installation on festoon systems for the transmission of optical data. In addition to festoon systems FIBER-FLEX® is also suitable for installation in cable track.

FIBER-FLEX® is suitable for use indoor or outdoor at temperatures ranging from 90°C to -40°C on cranes, hoists, or any equipment which travels with a lateral traversing motion.

FEATURES AND BENEFITS

1. FIBER

Multimode (62.5/125 µm) optical fiber eliminates the need for expensive copper shielding.

2. BUFFER TUBE

Color coded, gel filled, deformation resistant loose buffer tube (one fiber per tube) eases identification, provides mechanical protection and resists temperature extremes and the effects of high humidity.

3. CABLING

Tubes are cabled with a short lay length around an epoxy glass core for optimum flexibility. A full braid of Kevlar® over the core adds strength and reinforcement to the assembly; any tensile forces that may be encountered during rapid acceleration and deceleration are carried by the braided Kevlar® strength member.

4. JACKETS

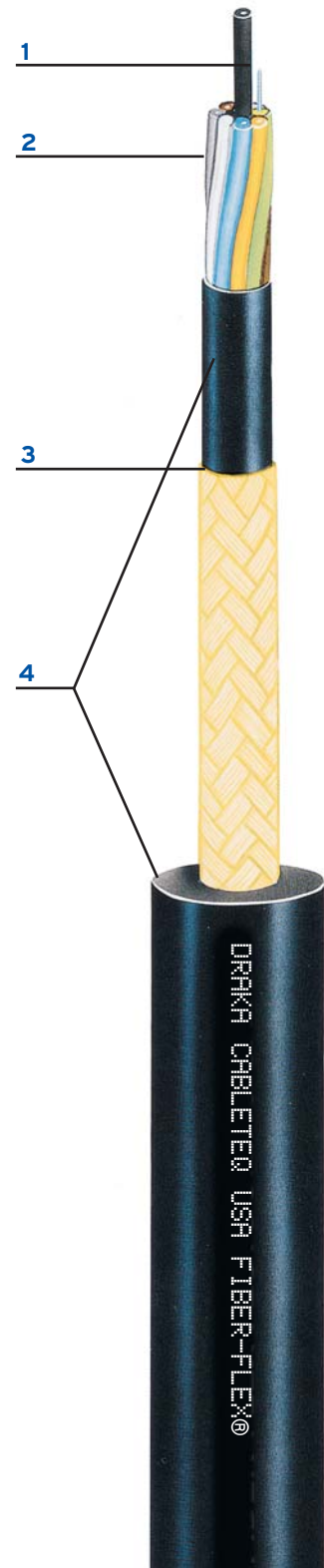
Deformation resistant fluoro-polymer inner jacket provides a stable base for application of the braided Kevlar® strength member. Oil, chemical, and weather resistant neoprene outer jacket is suitable for use indoors and outdoors in abusive flexing applications where oil, chemicals and extreme temperatures are considerations.

CONSTRUCTION OPTIONS

Consult factory for FIBER-FLEX® cables designed and manufactured in a variety of alternative constructions for specific applications.

Options include:

- single mode fiber
- different fiber counts
- break-out design
- armor
- copper/fiber composites.





Part Number	Fiber Number	Fiber Size	Nominal Cable O.D. in (mm)	Minimum Bend Radius in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
024701	4	62.5/125 µm	.670 (17)	8 (203)	185 (275)
024617	6	62.5/125 µm	.670 (17)	8 (203)	185 (275)
024667	12	62.5/125 µm	.670 (17)	8 (203)	204 (305)

FIBER-FLEX COLOR CODE

Fiber Number	Tube Color	Fiber Number	Tube Color
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Slate	11	Pink
6	White	12	Aqua

STANDARD OPTICAL PERFORMANCE

Type: Graded Index, Multi-mode

Core Diameter:	62.5 µm ± 3 µm
Cladding Diameter:	125 µm ± 2 µm
Coating Diameter:	250 µm ± 15 µm
Attenuation	≤ 3.50 dB/km @ 850 nm • ≤ 1.50 dB/km @ 1300 nm
Bandwidth	≥ 200 MHz-km @ 850 nm • ≥ 500 MHz-km @ 1300 nm
Numerical Aperture:	0.275 ± 0.015

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.