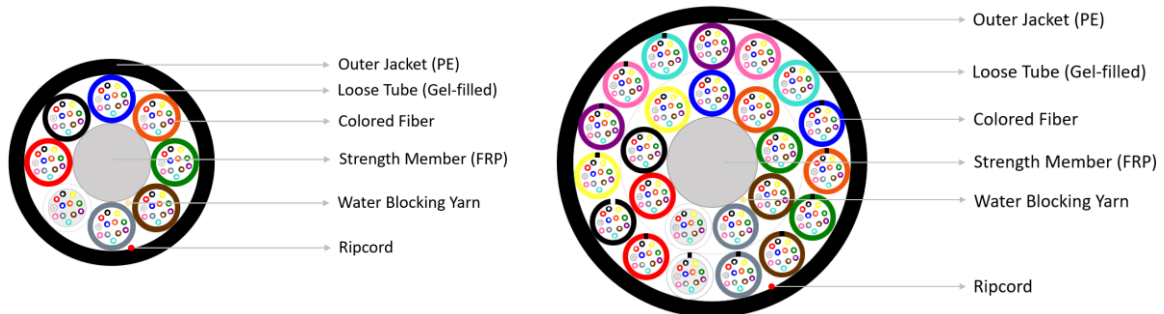


# Micro Fiber Optic Cable (Gel-Filled)

2F~432F, Single-Mode, Colored Fiber, Loose Tube, Indoor/Outdoor, PE Jacket

## Cross Sectional Diagram



## Applications

- Local area networks
- Suitable for underground duct installation
- Suitable for installation in limited environment

## Features

- Small size & light weight for limited conduit space
- Reduces cable preparation and installation time
- PE Jacket

## Specifications

Mechanical Specifications									
Fiber Count	2	12	24	48	72	96	144	288	432
Fibers per Tube	2	12	12	12	12	12	12	12	24
Outer Diameter [mm (in)]	5.4 (0.21)	5.4 (0.21)	5.4 (0.21)	5.4 (0.21)	5.4 (0.21)	6.2 (0.24)	8.0 (0.32)	9.6 (0.38)	11.0 (0.43)
Weight [kg/km (lb/1000 ft)]	19.4 (13.0)	19.8 (13.3)	20.3 (13.6)	21.4 (14.3)	22.6 (15.2)	30.6 (20.6)	56.4 (37.9)	78.7 (52.9)	99.1 (66.6)
Max. Tensile Strength, Short-term / Long-term	890 N / 260 N (200 lbf / 58 lbf)					1200 N / 420 N (270 lbf / 94 lbf)			
Crush Resistance	500 N / 100 mm								
Min. Bend Radius- Installation	20 times x cable O.D.								
Min. Bend Radius- Operation	10 times x cable O.D.								

\*The values of fiber attenuation loss change are the results measured after all tests have been completed



### General Specifications

Fiber Coating	Colored
Fiber Type	Single-Mode (OS2)
Tube Type	Gel-filled
Tube Material	PBTP (Polybutylene Terephthalate)
Strength Member	FRP (Fiber Reinforced Plastic)
Outer Jacket Material	PE (Polyethylene)
Outer Jacket Color	Black

### Fiber & Tube Coloring

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue*	Orange*	Green*	Brown*	Slate*	White*	Red*	Black*	Yellow*	Violet*	Pink*	Aqua*

\*With one black stripe (black fiber & tube will have a natural stripe)

### Environmental Conditions

Temperature Range – Installation	- 10°C to + 40°C ( 14°F to 104°F)
Temperature Range - Storage	- 40°C to + 70°C (- 40°F to 158°F)
Temperature Range - Operation	- 40°C to + 70°C (- 40°F to 158°F)

### Optical Characteristics (Single-Mode)

Fiber Category	OS2 (G657.A1)		
Max. Attenuation	0.36 dB/km	0.36 dB/km	0.25 dB/km
Wavelengths	1310 nm	1383 nm	1550 nm



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