

## Freeform Ribbon™ Outdoor/Indoor LSZH Riser Monotube Cables (200µm)



Sumitomo Electric Lightwave's (SEL) Freeform Ribbon™ Outdoor/Indoor Low Smoke Zero Halogen (LSZH) Monotube Cables are intended for duct and direct-buried installation, and features the patented 12-fiber pliable Freeform Ribbon™ constructed of 200 µm color-coded optical fibers.

Freeform Ribbon™ enables high fiber density within a small cable diameter, which in turn helps with limited duct space. The 12-fiber ribbons may be spliced to conventional ribbons, pliable ribbons, or non-ribbonized (single) fibers, as well as connectorization with both MPO and all industry-standard connectors.

### BENEFITS

- Color-Coded Optical Fibers for Quick and Easy Identification
- Robust in Indoor and Outdoor Riser Environments
- Pliable Ribbon Allows for Higher Density in Space-Constrained Applications
- Compatible with Mass- & Single-Fiber Fusion Splicers, Splice-On Connectors, and Hardware

### FEATURES

- Patented Pliable Freeform Ribbon™ Color-Coded Optical Fibers
- PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber
- Gel-Free, Water Blocking Tape
- Referencing Outdoor/Indoor Cable Requirements of ICEA S-104-696, and IEC 60794-6-10
- Meets UL-1666, UL 1685-LS, and FT-4

### QUICK SPECS

CABLE  
STRUCTURE

**Monotube**

RIBBON TYPE

**Freeform  
Ribbon™**

FIBER COUNT

**288f –  
1,728f**

FIBER SIZE

**200 µm**

To learn more information visit [www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

**GENERAL**

Application	Outdoor/Indoor
Jacket Color	Black
Cable Structure	Monotube
Ribbon Type	Freeform Ribbon™
Metallic Elements	No Bonding/Grounding Required

**FIBER**

Fiber Type	PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber	
Fiber Attenuation Grades	Standard Single-Mode	
Max. Attenuation	1310 nm	0.40 dB/km
	1550 nm	0.30 dB/km

**BEND RADIUS**

During Installation (Dynamic)	20 x Cable O.D.
After Installation (Static)	15 x Cable O.D.

**MECHANICAL CHARACTERISTICS**

Max. Tensile Load (During Installation)	600 lb (2,670 N)
Max. Recommended Service Load	180 lb (600 N)
Max. Compression Resistance	124 lb/in (220 N/cm)

**TEMPERATURE RANGE**

Operation	-40 to +158°F (-40 to +70°C)
Storage & Shipping	-40 to +158°F (-40 to +70°C)
Installation	+14 to +140°F (-10 to +60°C)

**STANDARDS**

Standards	ICEA S-104-696, IEC 60794-6-10, UL 1666, UL 1685-LS
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**ORDERING INFORMATION**

PART NUMBER	FIBER COUNT	NOMINAL CABLE O.D.		NOMINAL WEIGHT		FIBERS PER RIBBON	FIBERS PER BUNDLE
		IN	MM	LBS/KFT	KG/KM		
<b>200 μm</b>							
SE-8MMT0288-B-NP	288f	0.50	12.6	89.0	133.0	12f	72f
SE-8MMT0432-B-NP	432f	0.55	13.9	102.0	152.0	12f	72f
SE-8MMT0864-B-NP	864f	0.69	17.4	137.0	205.0	12f	72f
SE-8MMT1728-B-NP	1,728f	0.85	21.6	275.0	410.0	12f	72f

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