

Freeform Ribbon™ Outdoor/Indoor LSZH Riser Monotube Cables



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 200µm 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.A2 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

3,456f

FIBER SIZE

200µm

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.A2 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)	40 x Cable OD
After Installation (Static)	30 x Cable OD

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 OD		NOMINAL WEIGHT		FIBERS PER RIBBON	FIBERS PER BUNDLE
		IN	MM	LBS/KFT	KG/KM		
200µm							
SE-AMMT3456-B-NP	3,456f	1.00	25.4	397	592	12f	144f