

# Freeform Ribbon™ Interlocking Armored Outdoor/Indoor LSZH Riser Central Tube Cables

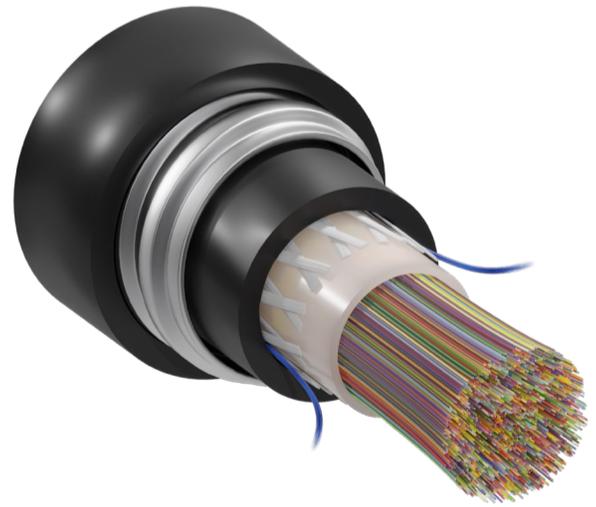
Sumitomo Electric Lightwave's Freeform Ribbon™ Interlocking Armored Outdoor/Indoor Low-Smoke Zero Halogen (LSZH) Riser Central Tube Cables feature a flame-retardant outer jacket, an interlocking armor, which adds protection against crushing forces, and the patented 12-fiber pliable Freeform Ribbon™ constructed of 250 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 a conventional ribbon, pliable ribbon, or non-ribbonized (single) fibers, as well as connectorized with both MPO and all industry-standard connectors. The non-preferential bend axis allows for easy installation in space-constrained areas. In addition, this cable is designed for areas that require LSZH (e.g., subways systems and tunnels).

## BENEFITS

- Quick and Easy Fiber Identification
- Robust in Indoor and Outdoor Environments
- High-Fiber Density Maximizes Duct Space
- Compatible With Mass and Single Fiber Fusion Splicers, Splice-on Connectors, & Hardware
- Armor Adds Additional Protection
- Eliminates Switching from OSP to ISP Cables

## FEATURES

- Patented Pliable Freeform Ribbon™ Color-Coded Optical Fibers
- SEL's PureAccess® Bend Insensitive Single-Mode Fiber G.657.A1
- Gel-free, Water-blocking Tape & Yarn
- Dry Central Tube for Easy Installation
- Flame-Retardant, Zero Halogen, And UV-Resistant Outer Jacket



## QUICK SPECS

CABLE  
STRUCTURE

**Central  
Tube**

RIBBON TYPE

**Freeform  
Ribbon™**

FIBER COUNT

**12 - 1,728**

FIBER SIZE

**250μm**

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

GENERAL	
Application	Outdoor/Indoor
Jacket Color	Black PE
Cable Structure	Central Tube
Ribbon Type	Freeform Ribbon™
Metallic Elements	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	20 x Cable OD
After Installation	10 x Cable OD

## ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL CABLE ARMOR OD		NOMINAL WEIGHT		FIBERS PER RIBBON	NO. OF BUNDLES
		IN	MM	IN	MM	LB/KFT	KG/KM		
<b>250 µm</b>									
SE-8RAP0012-B-12	12f	0.44	11.3	0.78	19.7	231.2	344.0	12f	N/A
SE-8RAP0024-B-12	24f	0.44	11.3	0.78	19.7	231.2	344.0	12f	N/A
SE-8RAP0036-B-12	36f	0.44	11.3	0.78	19.7	231.2	344.0	12f	N/A
SE-8RAP0048-B-12	48f	0.44	11.3	0.78	19.7	231.2	344.0	12f	N/A
SE-8RAP0072-B	72f	0.56	14.1	0.95	24.2	307.1	457.0	12f	1
SE-8RAP0096-B-12	96f	0.56	14.1	0.95	24.2	301.7	449.0	12f	N/A
SE-8RAP0144-B	144f	0.56	14.1	0.95	24.2	307.1	457.0	12f	2
SE-8RAP0288-B	288f	0.67	17.0	1.01	25.6	324.4	522.0	12f	4
SE-8RAP0432-B	432f	0.73	18.5	1.07	27.2	411.9	613.0	12f	6
SE-8RAP0576-B	576f	0.96	24.2	1.19	30.1	534.2	795.0	12f	8
SE-8RAP0864-B	864f	0.96	24.2	1.26	31.9	564.5	840.0	12f	12
SE-8RAP1728-B	1,728f	1.13	28.6	1.48	37.5	767.4	1,142.0	12f	24
<b>200 µm</b>									
SE-8RAT1728-B	1,728f	1.13	28.6	1.48	37.5	767.4	1,142.0	12f	24

MECHANICAL CHARACTERISTICS	
Max. Tensile Load (During Installation)	600 lb (2,670 N)
Max. Recommended Service Load	180 lb (800 N)
Max. Compression Resistance	125 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	NFPA 130, NFPA 502, OFCR, FT4, Low Smoke/ST-1