

Freeform Ribbon™ Indoor/Outdoor X-Slotted Core Cable

Sumitomo Electric Lightwave's (SEL) Freeform Ribbon™ Indoor/Outdoor X-Slotted Core Cable is intended for installation in ducts, direct burial, and for pulling purposes. This cable is designed with water-blocking tapes applied over each slot to protect against water migration, a central FRP strength member, a black flame-retardant polyethylene (FRPE) sheath, and the patented 12-fiber pliable Freeform Ribbon™ constructed of 200µm color-coded optical fibers.

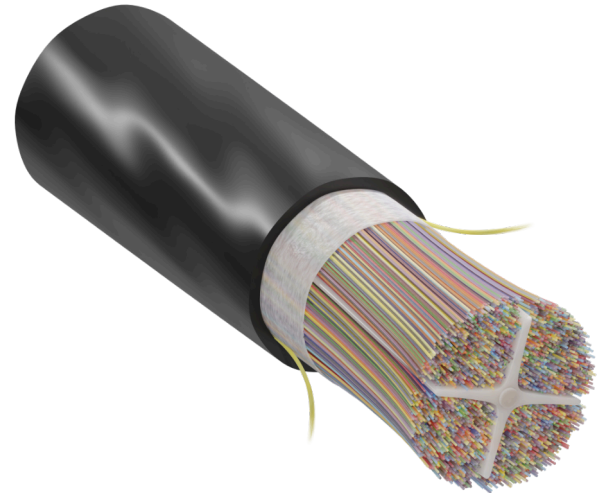
Freeform Ribbon™ enables high fiber density within a small cable diameter which in turn helps with limited duct space. The 12-fiber ribbons may be spliced to a conventional ribbon, pliable ribbon, or non ribbonized (single) fibers, as well as connectorization with both MPO and all industry standard connectors.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

BENEFITS

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

FEATURES

- Patented Pliable Freeform Ribbon™ Color-Coded Optical Fibers
- SEL's PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber
- Gel-Free Water-Blocking Tape
- Tested per Applicable Requirements of Telcordia GR-20



QUICK SPECS

CABLE
STRUCTURE

**Slotted
Core**

RIBBON TYPE

**Freeform
Ribbon™**

FIBER COUNT

6,912f

FIBER SIZE

200 µm

GENERAL	
Application	Indoor/Outdoor
Jacket Color	Black
Jacket Material	Flame Retardant Polyethylene (FRPE)
Cable Structure	Slotted Core
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	
Maximum Attenuation	1310 nm	0.40 dB/km
	1550 nm	0.30 dB/km
Mode Field Diameter	1310 nm	8.6 μm ± 0.4 μm

MECHANICAL CHARACTERISTICS	
Maximum Tensile Load (During Installation)	600 lb (2,670 N)
Maximum Recommended Service Load	180 lb (800 N)
Maximum Compression Resistance	124 lb/in (220 N/cm)

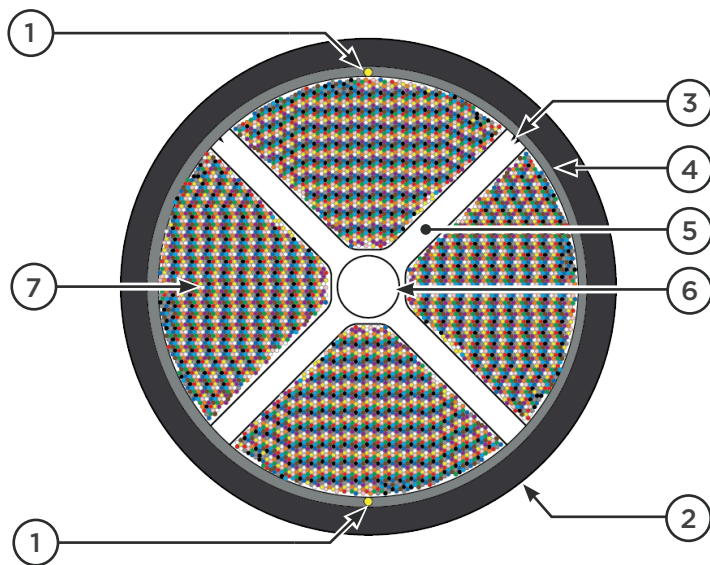
TEMPERATURE RANGE	
Operation	-40 to +158°F (-40 to +70°C)

STANDARDS & COMPLIANCE	
Standards	OFNR, UL 1666
Regulatory Compliance	RoHS, REACH, Conflict Minerals, Proposition 65

BEND RADIUS	
During Installation (Dynamic)	20 x Cable OD
After Installation (Static)	12.5 x Cable OD

ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		NO. OF SLOTS	FIBERS PER BUNDLE	FIBERS PER SLOT	STRENGTH MEMBER
		IN	MM	LBS/KFT	KG/KM				
200 μm									
SE-8GGT6912-B-M	6,912f	1.30	33.0	655.0	975.0	4	288f	1,728f	FRP



1. Ripcords
2. Outer Jacket
3. Slot Identification Markings
4. Water Blocking Tape
5. Slotted Core
6. Strength Member (FRP)
7. Freeform Ribbon™ Fibers

CROSS SECTION

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To learn more information visit www.SumitomoElectricLightwave.com