

Freeform Ribbon™ Transit Outdoor/Indoor LSZH-NFPA130 OFCR Steel Armored Ribbon Cables

Sumitomo Electric Lightwave's Freeform Ribbon™ Transit Outdoor/Indoor LSZH-NFPA130 OFCR Steel Armored Ribbon Cables are intended for duct and direct buried installations and feature the patented 12-fiber pliable Freeform Ribbon™ constructed of 250 µm color-coded optical fibers. These cables feature a dry water block yarn design that eliminates cable flooding gels, thereby simplifying the cleaning and blocking preparation steps associated with standard gel-filled cables. The steel-armored sheath provides a robust, rodent-resistant cable with the necessary compressive strength for direct burial applications.

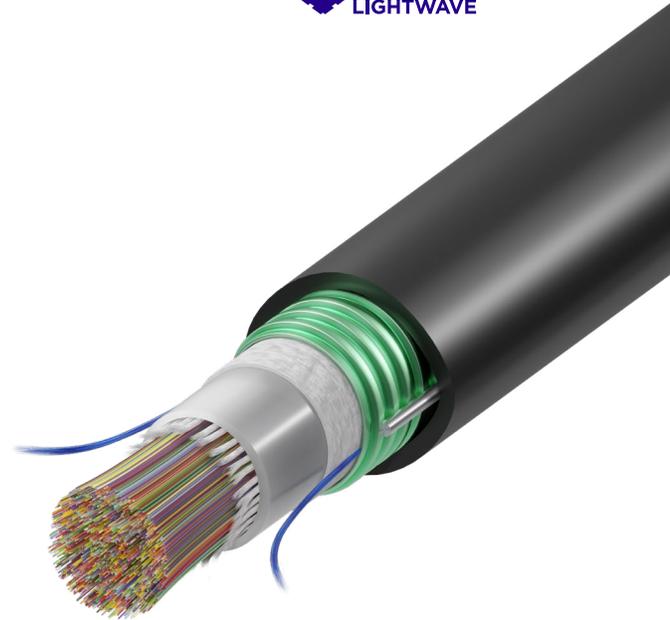
Freeform Ribbon™ enables high fiber density within a small cable diameter, which in turn helps with limited duct space. The 12-fiber ribbons may be spliced to a conventional ribbon, pliable ribbon, or non-ribbonized (single) fibers, as well as connectorization with MPO and all industry-standard connectors.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

BENEFITS

- Quick and Easy Fiber Identification
- Robust in Harsh Installation Environments
- High Fiber Density Maximizes Duct Space
- Compatible with Mass and Single Fiber Fusion Splicers, Splice-On Connectors & Hardware
- Armor Adds Additional Protection

FEATURES

- Patented Pliable Freeform Ribbon™ Color-Coded Optical Fibers
- Sumitomo Electric Lightwave's PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber
- Gel-Free Water Blocking Tape
- Industry Standard MDPE Sheath
- Tested Per Applicable Requirements of Telcordia GR-20



QUICK SPECS

CABLE
STRUCTURE

**Central
Tube**

RIBBON TYPE

**Freeform
Ribbon™**

FIBER COUNT

**144f -
1,728f**

FIBER SIZE

250 µm

To learn more information visit 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	
Maximum Attenuation	1310 nm	0.40 dB/km
	1550 nm	0.30 dB/km

BEND RADIUS	
During Installation (Dynamic)	20 x Cable OD
After Installation (Static)	10 x Cable OD

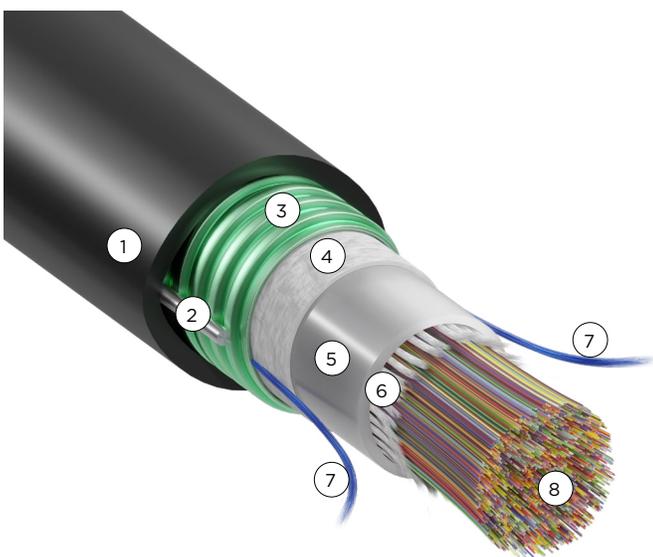
MECHANICAL CHARACTERISTICS	
Max. Tensile Load (During Installation)	600 lb (2,670 N)
Max. Recommended Service Load	180 lb (800 N)
Max. Compression Resistance	125 lb/in (220 N/cm)

TEMPERATURE RANGE	
Operation	-40 to +158°F (-40 to +70°C)
Storage & Shipping	-40 to +158°F (-40 to +70°C)
Installation	-22 to +140°F (-30 to +60°C)

STANDARDS	
Standards	Referencing Telcordia GR-20; OFCR; NFPA 130

ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		NO. OF BUNDLES	FIBER NO. OF UNIT
		IN	MM	LB/KFT	KG/KM		
250 µm							
SE-8USPO144-B-12	144f	0.61	15.5	207.3	309.4	2	72
SE-8USPO432-B	432f	0.79	20.3	300.0	446.6	6	72
SE-8USPO864-B	864f	0.88	22.4	360.0	537.0	12	72
SE-8USP1728-B	1,728f	1.08	27.5	490.3	731.9	24	72



- 1. I/O LSZH Jacket
- 2. Steel Strength Members
- 3. Corrugated Steel Armor
- 4. Water Blocking Tape
- 5. Central Buffer Tube
- 6. Water Blocking Yarns
- 7. Ripcords
- 8. Freeform Ribbon™

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