

## Freeform Ribbon™ Armored Monotube OSP Cable

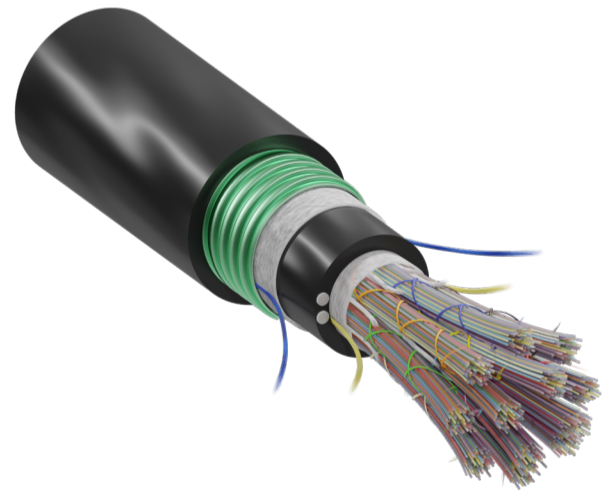
Sumitomo Electric Lightwave's Freeform Ribbon™ Armored Monotube Outside Plant (OSP) Cable is intended for duct and direct buried installation, and the patented 12-fiber pliable Freeform Ribbon™ is constructed of 250 µm color-coded optical fibers. Freeform Ribbon™ enables high fiber density within a small 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 connectorization with both MPO and all industry standard connectors. These cables feature a dry water block yarn design that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. The steel armored sheath construction produces a rugged, rodent resistant cable and adds compressive strength required for direct buried applications.

### BENEFITS

- Quick And Easy Fiber Identification
- Robust In Harsh Installation Environments
- Robust in Outdoor 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
- PureBand™-R Bend Insensitive Single Mode Fiber G.657.A1
- Gel-free, Water-blocking Tape
- Meets Requirements of 60793-1, 60793-2, 60794-1
- Tested Per Applicable Requirements of Telcordia GR-20



### QUICK SPECS

CABLE  
STRUCTURE

**Monotube**

RIBBON TYPE

**Freeform  
Ribbon™**

FIBER COUNT

**864f**

FIBER SIZE

**250 µm**

**GENERAL**

Application	Outdoor
Jacket Color	Black PE
Cable Structure	Monotube
Ribbon Type	Freeform Ribbon™
Metallic Elements	Bonding/Grounding Required

**MECHANICAL CHARACTERISTICS**

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

**BEND RADIUS**

Min. Bend Radius (Static)	15 x Cable OD
Min. Bend Radius (Dynamic)	20 x Cable OD

**FIBER**

Fiber Type	PureBand™-R G.657.A1 Bend Insensitive Single-Mode Fiber	
Fiber Attenuation Grades	Standard Single-Mode	
Mode Field Diameter (1310 nm)	9.2 ± 0.4 μm	
Attenuation	1310 nm	0.40 dB/km
	1550 nm	0.25 dB/km

**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 & COMPLIANCE**

Standards	Referencing Telcordia GR-20
Regularity Compliance & Certifications	RoHS, REACH, Conflict Minerals, Proposition 65

**ORDERING INFORMATION**

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		FIBERS PER RIBBON	FIBERS PER BUNDLE
		IN	MM	LB/KFT	KG/KM		
<b>250μm</b>							
SE-CMBP0864-C	864f	0.91	23.0	302.0	450.0	12f	72f