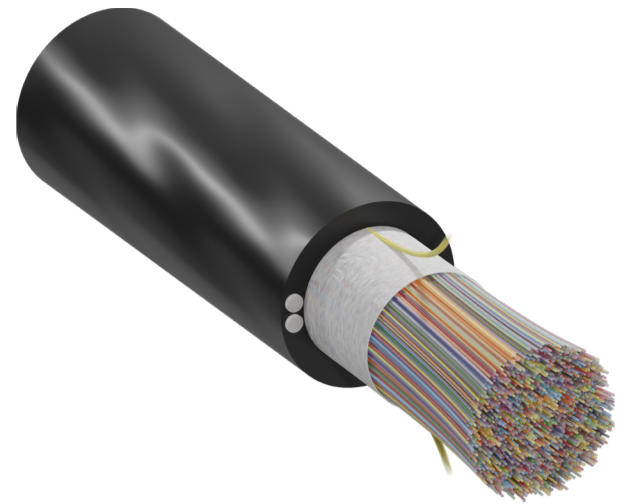


## Freeform Ribbon™ All-Dielectric Monotube OSP Cable

Sumitomo Electric Lightwave's Freeform Ribbon™ All-Dielectric Monotube Outside Plant (OSP) Cable is intended for duct and direct buried installation, and features 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 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 and Easy Identification
- Robust in Outdoor Environments
- High Fiber Density Maximizes Duct Space
- 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
- PureBand™-R Bend Insensitive Single Mode Fiber G.657.A1
- Gel-Free Water Blocking Tape
- Tested Per Applicable Requirements of Telcordia GR-20

### QUICK SPECS

CABLE  
STRUCTURE

**Monotube**

RIBBON TYPE

**Freeform  
Ribbon™**

FIBER COUNT

**96f -  
1,728f**

FIBER SIZE

**250 μm**

GENERAL	
Environment	Outdoor
Application	Duct
Jacket Color	Black
Cable Structure	Monotube™
Ribbon Type	Freeform Ribbon™
Metallic Elements	No Bonding/Grounding Required

FIBER		
Fiber Type	PureBand™-R G.657.A1 Bend Insensitive Single-Mode Fiber	
Fiber Attenuation Grades	Standard Single-Mode	
Fiber Attenuation Grades	1310 nm	0.40 dB/km
	1550 nm	0.30 dB/km
Mode Field Diameter	1310 nm	9.2 μm ± 0.4 μm

BEND RADIUS	
During Installation (Dynamic)	20 x Cable OD
After Installation (Static)	15 x Cable OD

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)

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	RoHS, REACH, Conflict Minerals, Proposition 65

## ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		MINIMUM BEND RADIUS		NO. OF UNIT	FIBERS PER RIBBON
		IN	MM	LB/KFT	KG/KM	STATIC	DYNAMIC		
<b>250 μm</b>									
SE-CMDP0096-G-M	96f	0.41	10.4	51.1	76.0	156 mm	208 mm	-	-
SE-CMDP0144-G-M	144f	0.41	10.5	57.1	85.0	160 mm	210 mm	-	-
SE-CMDP0288-G-M	288f	0.47	12.0	73.9	110.0	180 mm	240 mm	-	-
SE-CMDP0432-G-M	432f	0.53	13.5	331.0	150.0	205 mm	270 mm	6	96
SE-CMDP0576-G-M	576f	0.59	15.0	114.2	170.0	225 mm	300 mm	8 or 6*	72 or 96*
SE-CMDP0864-G-M	864f	0.71	18.0	144.5	215.0	270 mm	350 mm	6	144
SE-8MDP1728-G-M	1,728f	0.98	25.0	241.9	360.0	375 mm	500 mm	12	144

\* The 576f Cable is Available in Two Configurations: 72f x 8 Units or 96f x 6 Units.

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