Freeform Ribbon™ All-Dielectric Monotube OSP Cable

Sumitomo Electric Lightwave's (SEL) 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
- SEL's PureBand™-R G.657.A1 Bend Insensitive Single-Mode Fiber (96f to 864f Only)
- SEL's PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber (1728f Only)
- 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

To learn more information visit **www.SumitomoElectricLightwave.com**

GENERAL	
Application	Outside Plant
Jacket Color	Black
Cable Structure	Monotube™
Ribbon Type	Freeform Ribbon™
Metallic Elements	No Bonding/Grounding Required

FIBER		
Fiber Type (96f to 864f Only)	PureBand™-R G.657.A1 Bend Insensitive Single-Mode Fiber (Mode Field Diameter at 1310 nm: Typ. 9.2 µm)	
Fiber Type (1728f Only)	PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber (Mode Field Diameter at 1310 nm: Typ. 8.6 µm)	
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)	15 x Cable OD

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)
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

ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		NO. OF UNIT	FIBERS NO. OF UNIT
		IN	MM	LB/KFT	KG/KM		
250 µm							
SE-CMDP0096-G-M	96f	0.41	10.4	51.0	75.9	-	-
SE-CMDP0144-G-M	144f	0.43	10.9	55.8	83.0	2	72
SE-CMDP0288-G-M	288f	0.47	12.0	83.0	123.4	4	72
SE-CMDP0432-G-M	432f	0.53	13.5	100.8	150.0	6	72
SE-CMDP0864-G-M	864f	0.72	18.2	145.1	216.0	12	72
SE-8MDP1728-G-M	1,728f	0.98	24.9	246.0	366.0	24	72