

# Freeform Ribbon™ Armored Conventional OSP Slotted Core Cables

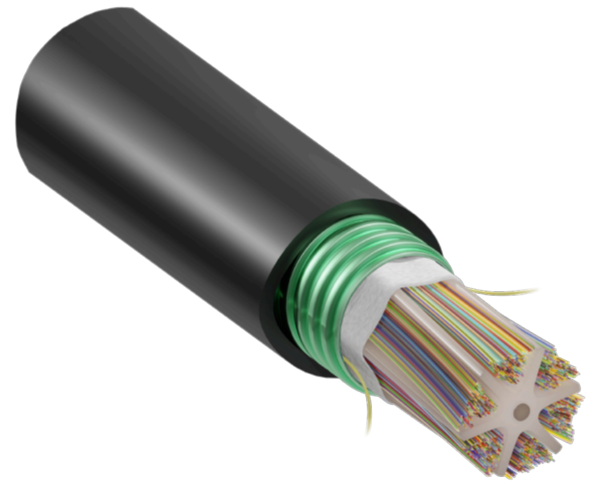
Sumitomo Electric Lightwave's Freeform Ribbon™ Armored Conventional Outside Plant (OSP) Slotted Core Cables are intended for duct, direct buried, and lashed aerial installations. Freeform Ribbon™ enables high fiber density within a small cable diameter which in turn helps with limited duct space. The 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. 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
- High Fiber Density Maximizes Duct Space
- Compatible with Mass and Single Fiber Fusion Splicers, Splice-On Connectors & Hardware
- Slotted Core Provides Easier Grouping of Fibers
- Armor Adds Additional Protection

## FEATURES

- Patented Pliable Freeform Ribbon™ Color-Coded Optical Fibers
- PureAccess® Bend Insensitive Single Mode Fiber G.657.A1
- Gel Free Water Blocking Tape
- Meets Requirements of IEC 60794-3-19
- Tested Per Applicable Requirements of Telcordia GR-20



## QUICK SPECS

CABLE  
STRUCTURE

**Slotted  
Core**

RIBBON TYPE

**Freeform  
Ribbon™**

FIBER COUNT

**144 -  
1,728**

FIBER SIZE

**250µm**

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

GENERAL	
Application	Outside Plant
Jacket Color	Black PE
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	
Max. Attenuation	1310 nm	0.40 dB/km
	1550 nm	0.25 dB/km

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)
Max. Compression Resistance	124 lb/in (220 N/cm)

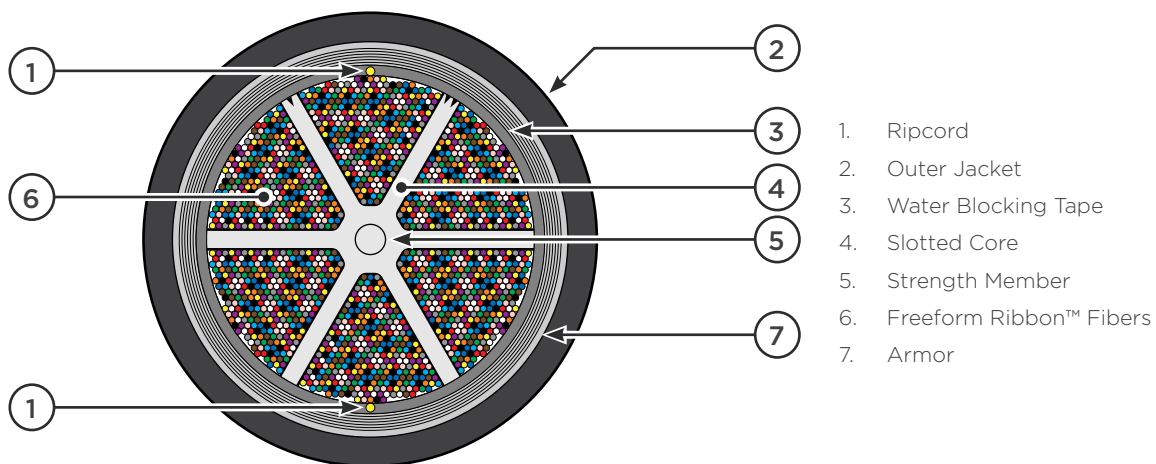
TEMPERATURE RANGE	
Operation	-40 to +158°F (-40 to +70°C)
Storage & Shipping	-40 to +158°F (-40 to +70°C)
Installation	+14 to +122°F (-10 to +50°C)

STANDARDS	
Standards	Referencing Telcordia GR-20

## ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		FIBERS PER RIBBON	FIBERS PER SLOT	STRANDING
		IN	MM	LB/KFT	KG/KM			
<b>250µm</b>								
DRSC-OSP6-SA00144-250-STTPROL	144f	0.79	20.0	211.7	315.0	6	24f	SZ
DRSC-OSP6-SA00288-250-STTPROL	288f	0.79	20.0	218.4	325.0	6	48f	SZ
DRSC-OSP6-SA00432-250-STTPROL	432f	0.87	22.5	252.0	375.0	6	72f	SZ
DRSC-OSP6-SA00864-250-STTPROL	864f	0.98	25.0	329.3	490.0	6	144f	SZ
DRSC-OSP6-SA01728-250-STTPROL	1,728f	1.28	32.5	460.3	685.0	6	288f	SZ

## CROSS SECTION



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