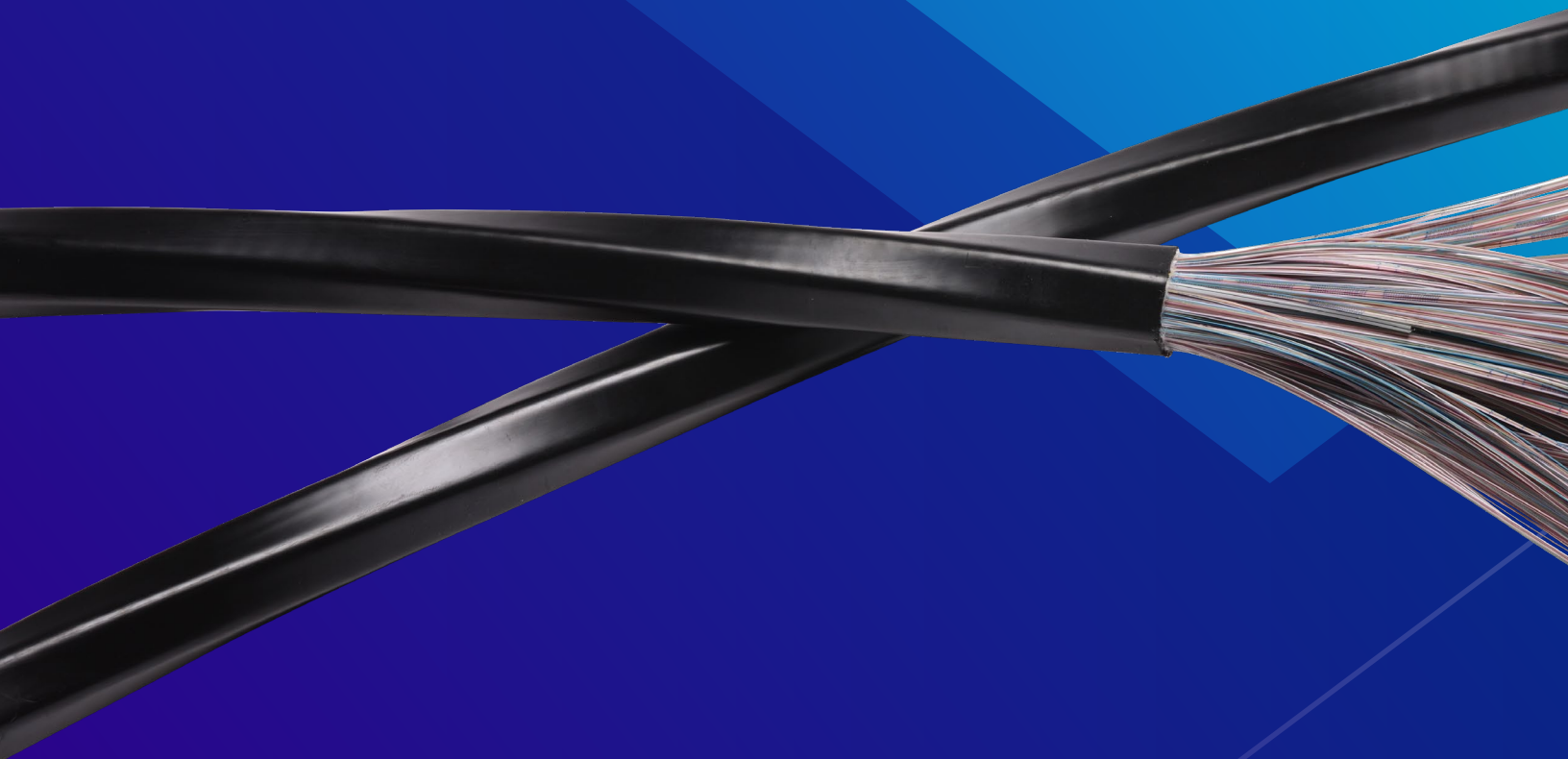


# FIBER OPTIC RIBBON CABLE

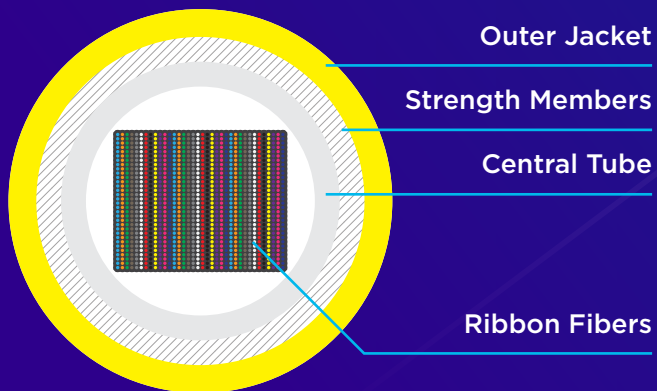
## ORDERING GUIDE



SUMITOMO ELECTRIC  
LIGHTWAVE

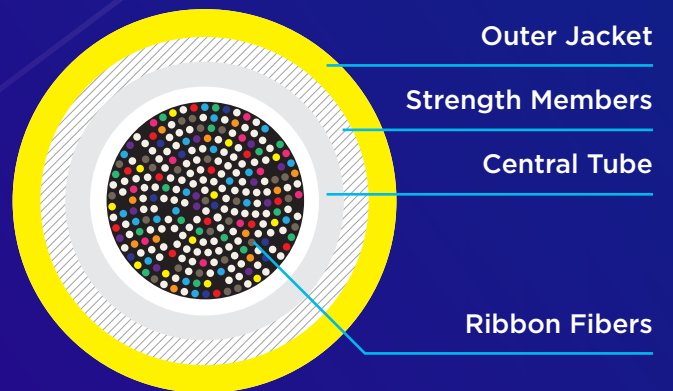


### 864F STANDARD FLAT RIBBON



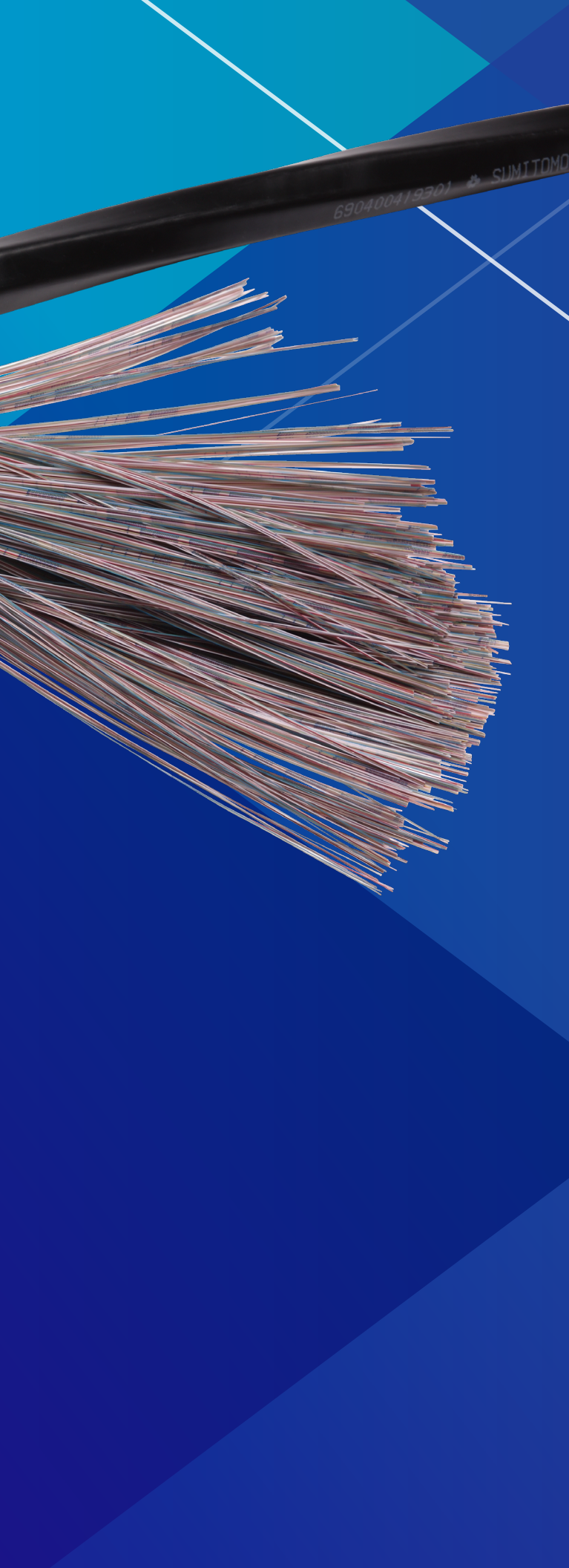
Standard Ribbon Design

### 1728F FREEFORM RIBBON®



Freeform Ribbon® Design

Double the Fiber, Same Outside Diameter



# WHAT IS FREEFORM RIBBON® TECHNOLOGY?

## DESCRIPTION

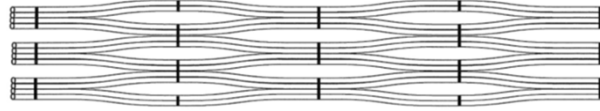
Sumitomo Electric Lightwave's Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's patented pliable Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, without any tools, to splice-ready form similar to standard/flat ribbon for fast and easy 12ct ribbon splicing (for both in-line and fusion splice-on connector splicing applications). Whether installing high fiber count cables, such as 1728, 3456, and higher to fit into existing 1.5" or 2" ducts, or needing to work with smaller and easy to terminate interconnect cables, the Freeform Ribbon® is the central component to achieve both.

**For more information about our products or solutions, visit: [www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)**

## FEATURES & BENEFITS

- Allows for Dense Fiber Packaging and Smaller Cable Diameters
- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Ideal for higher density in space-constrained applications
- Color-Coded Optical Fibers for Quick and Easy Identification

## Freeform Ribbon® Marking Codes



MARKING PATTERN			
1	5	10	50
	■	■	■
BAR	"SHORT BLOCK"	"LONG BLOCK"	"DOUBLE LONG BLOCK"

- **Example of Ribbon Number 16**  
1 LONG BLOCK | 1 SHORT BLOCK | 1 BAR



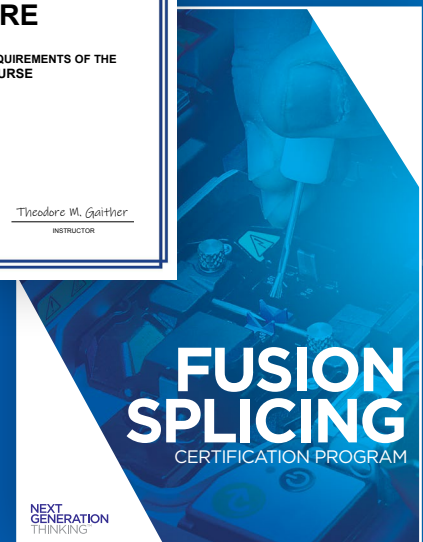
- **Example of Ribbon Number 61**  
DOUBLE LONG BLOCK | 1 LONG BLOCK | 1 BAR



## Complimentary Training

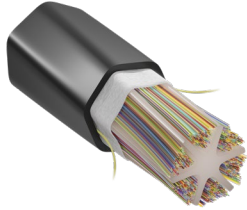
Our customers not only receive next generation solutions and products, in-depth training is also included from our fusion splicing experts at no cost to you.

Contact our sales team to schedule today.





## Freeform Ribbon® Slotted Core Ribbon Cable

**864F**


### DESCRIPTION

Sumitomo Electric Lightwave's Slotted Core fiber optic ribbon cables feature 250µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented pliable ribbons. Pliable ribbons enable high fiber density within a small cable diameter which in turn helps with limited duct space. The 12 fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy installation in space-

constrained areas. The cable includes a dry water-blocking tape that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. By eliminating these steps, the use of a totally dry cable speeds overall installation, termination, and splicing while reducing labor and material costs. The all dielectric design requires no grounding or bonding.

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Slots	No. Fibers Per Slot	Diameter		Weight	
			(mm)	(in.)	(kg/km)	(lbs/kft.)
864	6	144	21	0.83	300	202

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

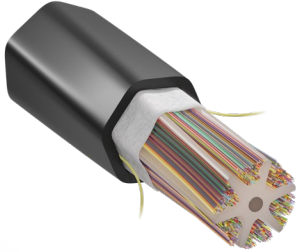
### ORDERING INFORMATION

**DRSC-OSP6-SA00864-250-ADE**

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- Freeform Ribbon® for High Fiber Density
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Easy Cable Entry
- Gel-Free

## Freeform Ribbon® Slotted Core Ribbon Cable

**1152F**


For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's Slotted Core fiber optic ribbon cables feature 250µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented Freeform Ribbon® technology. Freeform Ribbon® enable high fiber density within a small cable diameter which in turn helps with limited duct space. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy installation in space-constrained areas.

The cable includes a dry water-blocking tape that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. By eliminating these steps, the use of a totally dry cable speeds overall installation, termination, and splicing while reducing labor and material costs.

The all dielectric design requires no grounding or bonding.

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Slots	No. Fibers Per Slot	Diameter		Weight	
			(mm)	(in.)	(kg/km)	(lbs/kft.)
1152	6	192	25	0.98	450	303

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

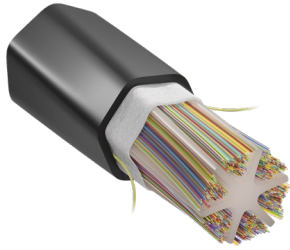
### ORDERING INFORMATION

**DRSC - GNS - 15021**

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- Freeform Ribbon® for High Fiber Density
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Easy Cable Entry
- Gel-Free

## Freeform Ribbon® Slotted Core Ribbon Cable

**1728F**


### DESCRIPTION

Sumitomo Electric Lightwave's Slotted Core fiber optic ribbon cables feature 250µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented pliable ribbons. Pliable ribbons enable high fiber density within a small cable diameter which in turn helps with limited duct space. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy installation in space-

constrained areas. The cable includes a dry water-blocking tape that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. By eliminating these steps, the use of a totally dry cable speeds overall installation, termination, and splicing while reducing labor and material costs. The all dielectric design requires no grounding or bonding.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Slots	No. Fibers Per Slot	Diameter		Weight	
			(mm)	(in.)	(kg/km)	(lbs/kft.)
1728	6	288	26	1.02	450	303

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

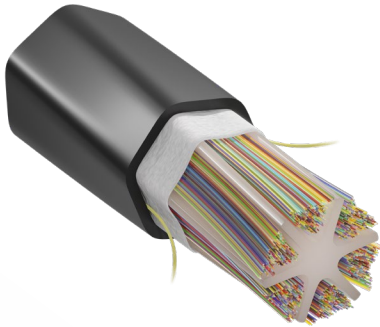
### ORDERING INFORMATION

**DRSC-13079SA0001728-B**

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- Freeform Ribbon® for High Fiber Density
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Easy Cable Entry
- Gel-Free

## Freeform Ribbon® Slotted Core Ribbon Cable

**3456F**


### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Slotted Core fiber optic ribbon cables feature 250µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented pliable ribbons. Freeform Ribbon® enables high fiber density within a small cable diameter which in turn helps with limited duct space. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy

installation in space-constrained areas. The cable includes a dry water-blocking tape that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. By eliminating these steps, the use of a totally dry cable speeds overall installation, termination, and splicing while reducing labor and material costs. The all dielectric design requires no grounding or bonding.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Slots	No. Fibers Per Slot	Diameter		Weight	
			(mm)	(in.)	(kg/km)	(lbs/kft.)
3456	6	576	32	1.26	700	470

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### ORDERING INFORMATION

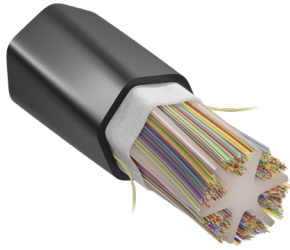
**DRSC-OSP6-SA003456-250-ADE**

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- Freeform Ribbon® for High Fiber Density
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Easy Cable Entry
- Gel-Free



## Freeform Ribbon® Slotted Core Ribbon Cable

**1728F**
**200µm**


### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Slotted Core fiber optic ribbon cables feature 200µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented pliable ribbons. Freeform Ribbon® enables high fiber density within a small cable diameter which in turn helps with limited duct space. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy

installation in space-constrained areas. The cable includes a dry water-blocking tape that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. By eliminating these steps, the use of a totally dry cable speeds overall installation, termination, and splicing while reducing labor and material costs. The all dielectric design requires no grounding or bonding.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Slots	No. Fibers Per Slot	Diameter		Weight	
			(mm)	(in.)	(kg/km)	(lbs/kft.)
1728	6	288	25	0.98	400	269

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

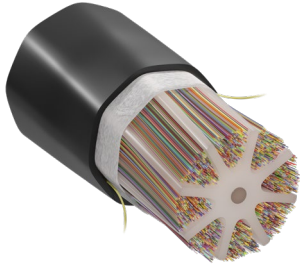
### ORDERING INFORMATION

**DRSC-OSP6-SA001728-200-ADE**

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- Freeform Ribbon® for High Fiber Density
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Easy Cable Entry
- Gel-Free

## Freeform Ribbon® Slotted Core Ribbon Cable

**6912F**
**200µm**


### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Slotted Core fiber optic ribbon cables feature 200µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented pliable ribbons. Freeform Ribbon® enables high fiber density within a small cable diameter which in turn helps with limited duct space. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy

installation in space-constrained areas. The cable includes a dry water-blocking tape that eliminates cable flooding gels, thereby eliminating the cleaning and blocking preparation steps associated with standard gel-filled cables. By eliminating these steps, the use of a totally dry cable speeds overall installation, termination, and splicing while reducing labor and material costs. The all dielectric design requires no grounding or bonding.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Slots	No. Fibers Per Slot	Diameter		Weight (kg/km)
			(mm)	(in.)	
6912	8	864	37	1.46	950

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	180 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD/550mm
Compression Resistance	220 N/cm (124 lbs/in)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)
Strength Element	All Dielectric Strength Member

### ORDERING INFORMATION

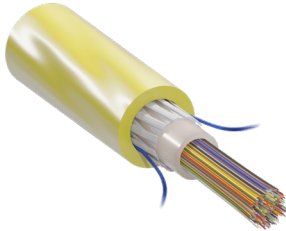
**DRSC-OSP8-SA06912-200-ADE**

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- Freeform Ribbon® for High Fiber Density
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Easy Cable Entry
- Gel-Free

**12-288F**

## Freeform Ribbon® Indoor Plenum Cable



### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Plenum Rated cable features a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications.

Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). This plenum rated cable meets or exceeds NFPA 262, OFNP listed, and CSA FT-6 approvals and listings.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	300 lbs
Maximum Recommended Service Load	100 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNP and CSA FT-6 Listed
Operation Temperature Range	0 to 70°C (32 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
12 to 48	1	12	10.3 0.41	113.5 76	UCTS-001
60 to 144	1	12	12.0 0.47	135.4 90.7	
156 to 288	1	12	14.4 0.57	149 99.8	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

# SE - 8 RUP4444 - B



**Fiber Type\***  
8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber



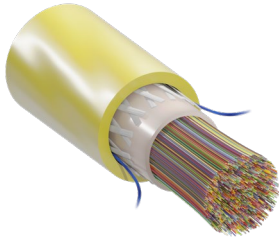
**Fiber Count (4-digits)**  
Total number of fibers in the cable (0012-0288)



**Fiber Attenuation Grades**  
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

72 - 288F

## Freeform Ribbon® Flexible Indoor Riser



### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Flexible Riser Rated cables feature a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding and meets OFNR and CSA FT4 specifications. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby

increasing density in space-constrained applications. Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:

[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® Groupings For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	300 lbs
Maximum Recommended Service Load	100 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs./in.)
Testing	OFNR /CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter		Weight		Tube Entry Tool
					(mm)	(in.)	(kg/km)	(lbs/kft.)	
72	1	12	6	1	10.1	0.4	97.2	65.1	UCTS-001
144	1	12	6	2	10.1	0.4	104	70	
288	1	12	6	4	13.5	0.53	153	103	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RXP4444 - B**



#### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber



#### Fiber Count (4-digits)

Total number of fibers in the cable



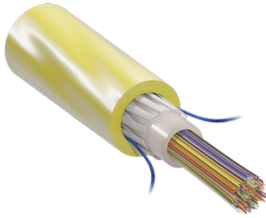
#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)



288F

## Freeform Ribbon® Indoor RoHS Riser



### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Riser Rated cables feature a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding and meets OFNR and CSA FT4 specifications. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-

preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® Groupings For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR /CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
288	1	12	15.7 0.62	297 200	UCTS-001

### ORDERING INFORMATION

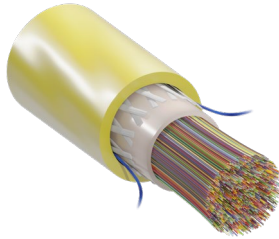
Create a Part Number by Using this Character Set & Codes

**SE - 8 RPP0288 - B**



- 1 Fiber Type\***  
8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber
- 4 Fiber Count (4-digits)**  
Total number of fibers in the cable (0288)
- 5 Fiber Attenuation Grades**  
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Indoor RoHS Riser

**576F**


### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Riser Rated cables feature a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding and meets OFNR and CSA FT4 specifications. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-

preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® Groupings For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR / CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
576	1	12	21.5 0.85	334 224	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RPP0576 - B**



#### 1 Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber



#### 4 Fiber Count (4-digits)

Total number of fibers in the cable (576)

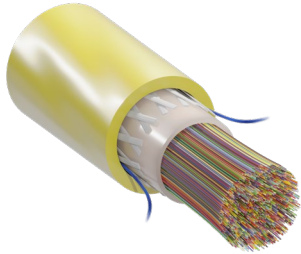


#### 5 Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

1728F

## Freeform Ribbon® Indoor RoHS Riser



### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Riser Rated cables feature a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding and meets OFNR and CSA FT4 specifications. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a

non-preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® Groupings For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR /CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
1728	1	12	6	24	25.6 1.01	516 347	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RPP1728 - B**

1

4

5

1

#### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP]

4

#### Fiber Count (4-digits)

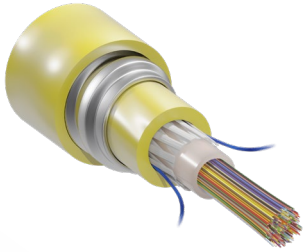
Total number of fibers in the cable (1728)

5

#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Indoor Armored RoHS Riser

**288F**


For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Riser Rated cables feature a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The cable meets UL 1666 and CSA FT4 specifications. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications.

Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small

form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

Interlocking armor adds protection against crushing forces. Flexible dielectric strength members within the cable core provide mechanical durability within a flame retardant jacket and the non-preferential bend axis allows for easy installation in space-constrained areas. This riser rated cable meets or exceeds OFCR and CSA FT4 approvals and listings.

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® Groupings For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFCR /CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Core Diameter (mm) (in.)	Armored Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
288	1	12	15.7 0.62	23.0 0.91	375 252	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

# SE - 8 RLP0288 - B

**1**
**4**
**5**
**1**
**Fiber Type\***

8 = PureAccess Bend Insensitive [ZWP]

**4**
**Fiber Count (4-digits)**

Total number of fibers in the cable (288)

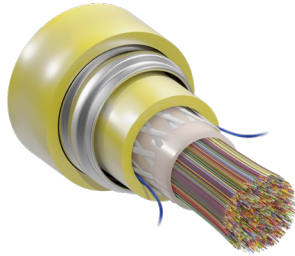
**5**
**Fiber Attenuation Grades**

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)



## Freeform Ribbon® Indoor Armored RoHS Riser

1728F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's Freeform Ribbon® Indoor Riser Rated cables feature a flame retardant outer jacket and 12 fiber Freeform Ribbon® constructed of 250µm color-coded optical fibers for easy fiber identification. The cable meets UL 1666 and CSA FT4 specifications. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications.

Sumitomo Electric Lightwave's patented Freeform Ribbon® construction is designed to both pack densely in small form factor

cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

Interlocking armor adds protection against crushing forces. Flexible dielectric strength members within the cable core provide mechanical durability within a flame retardant jacket and the non-preferential bend axis allows for easy installation in space-constrained areas. This riser rated cable meets or exceeds OFCR, and CSA FT4 approvals and listings.

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Freeform Ribbon® Groupings For Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Ideal for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFCR /CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Core Diameter (mm) (in.)	Armored Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
1728	1	12	25.6 1.03	38.4 1.51	1003 674	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RLP1728 - B**



**1 Fiber Type\***

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber

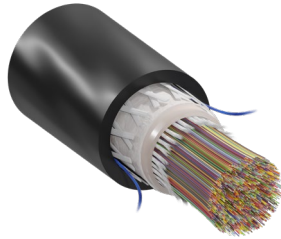
**4 Fiber Count (4-digits)**

Total number of fibers in the cable (1728)

**5 Fiber Attenuation Grades**

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Indoor/Outdoor OFNR Low Smoke Halogen Free

**864F**


For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### Description

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR Low Smoke Halogen-Free cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing

density in space-constrained applications. Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). The cable also meets Construction Product Regulations (CPR) with a Class C rating for European markets.

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications
- Complies with current European market CPR Class Cca requirement

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR /CSA FT4 /UL 1685-LS Compliant/CPR Cca
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
864	1	12	6	12	21.8 0.86	431 290	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

# SE - 8 RJP0864 - B

1

4

5

1

#### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber

4

#### Fiber Count (4-digits)

Total number of fibers in the cable (0864)

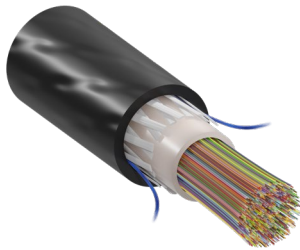
5

#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Outdoor/Indoor OFNR Low Smoke Halogen Free

288F



### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR Low Smoke Halogen-Free cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications.

Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). The cable also meets Construction Product Regulations (CPR) with a Class Cca rating for European markets and is designed for areas that require Low Smoke and Zero Halogen such as subways systems and tunnels.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- Flame Retardant, Halogen Free, and UV Resistant Outer Jacket

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications
- Complies with current European market CPR Class Cca requirement

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR / CSA FT4 / UL 1865-LS Compliant / CPR Cca / NFPA 130 / NFPA 502
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
288	1	12	17.0 0.67	259 174	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RMP0288 - B**

1

4

5

1

#### Fiber Type\*

8 = PureAccess G.657.A1 Bend Insensitive Single Mode Fiber

4

#### Fiber Count (4-digits)

Total number of fibers in the cable (288)

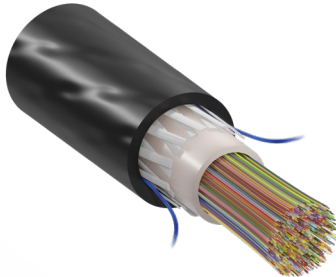
5

#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Outdoor/Indoor OFNR Low Smoke Halogen Free

72-144F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR LSHF cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend

axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). This cable is designed for areas that require Low Smoke and Zero Halogen such as subways systems and tunnels.

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Bend-Insensitive Fiber G.657.A1
- RoHS Compliant
- Flame Retardant, Halogen Free, and UV Resistant Outer Jacket
- Cable is designed to be mechanically deterrent to rodents\*

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	ICEA 696 / RoHS / FT4-UL1666 / UL1685-LS / NFPA 130 / NFPA 502
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter		Weight		Tube Entry Tool
					(mm)	(in.)	(kg/km)	(lbs/kft.)	
72	1	12	6	1	14.1	0.56	205	137	UCTS-001
144	1	12	6	2	14.1	0.56	212	142	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RSP0000 - B**



#### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber



#### Fiber Count (4-digits)

Total number of fibers in the cable (072-144)



#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

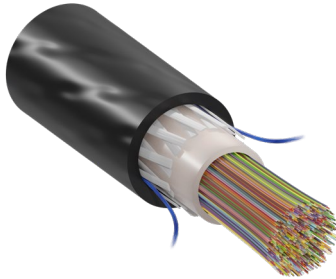
ADDITIONAL RODENT-DETERRENT ADDITIVE IS AVAILABLE TO ADD TO THE OUTER JACKET UPON REQUEST.





# Freeform Ribbon® Outdoor/Indoor OFNR Low Smoke Halogen Free

432-864F



## DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR LSHF cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-

constrained applications. Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). This cable is designed for areas that require Low Smoke and Zero Halogen such as subways systems and tunnels.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

## FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Bend-Insensitive Fiber G.657.A1
- RoHS Compliant
- Flame Retardant, Halogen Free, and UV Resistant Outer Jacket

## BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications

## SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	ICEA 696 / RoHS/ FT4-UL1666 / UL1685-LS / NFPA 130 / NFPA 502
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

## PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
432	1	12	6	6	18.5 0.73	220.0 186.7	UCTS-001
864	1	12	6	12	24.2 0.95	504.0 338.3	UCTS-001

## ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RSP0000 - B**

1

4

5

1

### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber

4

### Fiber Count (4-digits)

Total number of fibers in the cable (0432-0864)

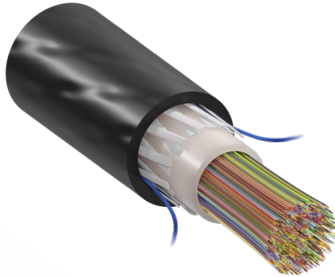
5

### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Outdoor/Indoor OFNR Low Smoke Halogen Free

1152F



### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's Freeform

Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). This cable meets Construction Product Regulations (CPR) with a Class B2ca rating for European markets and is designed for areas that require Low Smoke and Zero Halogen such as subways systems and tunnels.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Bend-Insensitive Fiber G.657.A1
- RoHS Compliant
- Flame Retardant, Halogen Free, and UV Resistant Outer Jacket

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	ICEA 696/ RoHS/ FT4-UL1666/ UL 1685-LS/ CPR b2ca-s1b, d0, a1 Rating/ NFPA 130/ NFPA 502
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
1152	1	12	6	16	26.8 1.06	646.0 433.0	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RMP 1152 - B**



#### 1 Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber



#### 4 Fiber Count (4-digits)

Total number of fibers in the cable (1152)

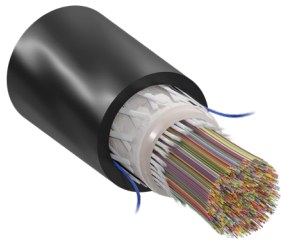


#### 5 Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Outdoor/Indoor OFNR Low Smoke Halogen Free

1728F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR Low Smoke Halogen-Free cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby

increasing density in space-constrained applications. Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). The cable also meets Construction Product Regulations (CPR) with a Class B2ca rating for European markets.

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's Fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications
- Complies with current European market CPR Class B2ca requirement

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR/ CSA FT4/ UL 1865-LS Compliant /CPR B2ca
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
1728	1	12	6	24	28.6 1.12	685 460	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RMP1728 - B**

1

4

5

1

#### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber

4

#### Fiber Count (4-digits)

Total number of fibers in the cable (1728)

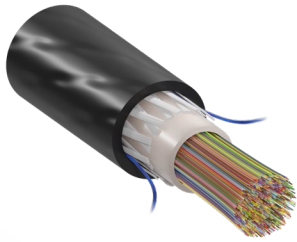
5

#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

# Freeform Ribbon® Outdoor/Indoor OFNR Low Smoke Halogen Free

864F



## DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Outdoor/Indoor OFNR cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-

preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

## FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber
- RoHS Compliant

## BENEFITS

- Compatible with SEL's Fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications

## SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR/ CSA FT4/ UL 1685-LS Compliant
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

## PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Ribbons Per Bundle	No. of Ribbon Bundles	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
864	1	12	6	12	24.2 0.95	278.6 186.7	UCTS-001

## ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 RSP0864 - B**

1

4

5

1

### Fiber Type\*

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber

4

### Fiber Count (4-digits)

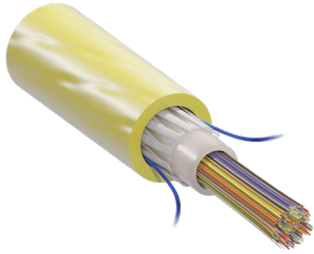
Total number of fibers in the cable (0864)

5

### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Indoor OFNR Low Smoke Halogen Free

**96F & 192F**


### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Indoor OFNR cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-preferential bend axis thereby increasing density in space-constrained applications.

Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications). The cable also meets Construction Product Regulations (CPR) with a Class B2ca rating for European markets.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess G.657.A1 Fiber

### BENEFITS

- Compatible with SEL's fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications
- Complies with current European market CPR Class B2ca requirement

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	300 lbs
Maximum Recommended Service Load	100 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR/ CSA FT4/ UL 1685-LS Compliant/ CPR B2ca
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)	Weight (kg/km) (lbs/kft.)	Tube Entry Tool
96	1	12	11.8 0.46	145.0 97.0	UCTS-001
192	1	12	14.4 0.57	193.0 129.0	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

# SE - 8 RNP0000-B

**1**
**4**
**5**
**1**
**Fiber Type\***

8 = PureAccess Bend Insensitive [ZWP] Single-mode Fiber

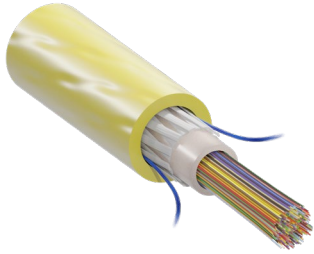
**4**
**Fiber Count (4-digits)**

Total number of fibers in the cable (0096 or 0192)

**5**
**Fiber Attenuation Grades**

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

## Freeform Ribbon® Indoor OFNR Low Smoke Halogen Free

**72 & 144F**


### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Indoor OFNR cables feature a flame retardant outer jacket and 12 fiber Pliable Ribbons constructed of 250µm color-coded optical fibers for easy fiber identification. The all-dielectric cable construction requires no grounding or bonding. Additionally, the Freeform Ribbon® allows for dense fiber packing and a small cable diameter with a non-

preferential bend axis thereby increasing density in space-constrained applications. Sumitomo Electric Lightwave's Freeform Ribbon® construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Sumitomo Electric Lightwave's PureAccess Bend Insensitive Single Mode Fiber G.657. A1

### BENEFITS

- Compatible with SEL's Fusion splicers, Splice-On Connectors, and Hardware
- Color-Coded Optical Fibers for Quick and Easy Identification
- Pliable Ribbon allows for higher density in space-constrained applications

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	300 lbs
Maximum Recommended Service Load	100 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR/ CSA FT4/ 1685-LS Compliant
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter		Weight		Tube Entry Tool
			(mm)	(in.)	(kg./km.)	(lbs./kft.)	
72	1	12	11.8	0.46	142.5	9.5	UCTS-001
144	1	12	14.4	0.57	188	126	UCTS-001

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

# SE - 8 RZP0000-B

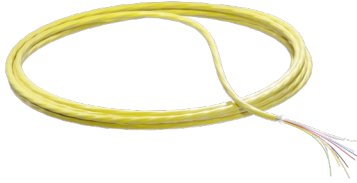


- 1 Fiber Type\***  
8 = PureAccess [BIF A1] Single-mode Fiber
- 4 Fiber Count (4-digits)**  
Total number of fibers in the cable (0144)
- 5 Fiber Attenuation Grades**  
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)



## Freeform Ribbon® Indoor Plenum Cord

12, 24, 48F



### DESCRIPTION

Sumitomo Electric Lightwave's Flexible Indoor Plenum Rated Freeform Ribbon™ Cord is designed for maximum fiber density with savings of valuable space in cable trays and patch panels, making them an ideal choice for interconnect applications. The cord features 250µm color-code optical fibers for easy fiber identification for easy fiber access and unprecedented ease of handling and splicing. The twelve fiber ribbon groupings enable easy connectorization with both

MPO and all industry standard connectors.

Sumitomo Electric Lightwave's patented Freeform Ribbon™ construction is designed to both pack densely in small form factor cables while still being capable to transform quickly, by hand only, to splice-ready form similar to standard ribbon for fast and easy 12 fiber ribbon splicing (for both in-line and fusion splice-on connector splicing applications).

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Color-Coded Optical Fibers for Quick and Easy Identification
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- Splice Compatible with Lynx2 Single and MPO Splice-On Connectors
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	50 lbs
Maximum Recommended Service Load	16 lbs
Minimum Bend Radius (During/After Installation)	100mm/50mm
Compression Resistance	35 N/cm (3.1 lbs/in)
Testing	ICEA 596/NFPA 262 and FT-6 Listed
Operation Temperature Range	0 to 70°C (32 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	No. Fibers Per Ribbon	Cable Outer Diameter		Weight	
		(mm)	(in.)	(kg./km.)	(lbs./kft.)
12	12	2.5	0.10	6.3	4.2
24	12	3.0	0.12	8.5	5.7
48	12	3.8	0.15	11.9	7.9

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 8 IUP0000- B-12**



1

#### Fiber Type

8 = PureAccess  
[BIF A1] Single-mode Fiber

4

#### Fiber Count (4-digits)

Total number of fibers in the cable

5

#### Fiber Attenuation Grades

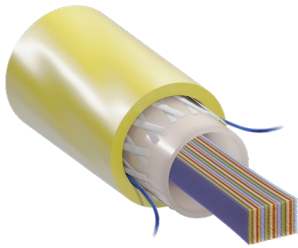
B = Standard Single-mode  
0.40/0.30 dB/km  
(1310/1550 nm)

# FLAT RIBBON

## CABLE DESIGNS

## Indoor Riser Ribbon Cables

12-864F



### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Indoor Riser Rated Ribbon cables feature a flame retardant outer jacket, 250µm color-coded optical fibers for easy fiber identification, and Sumitomo's exclusive patented easy split and peel technology for easy fiber access and unprecedented ease of handling and splicing. The twelve fiber ribbon subunits enable easy connectorization with MPO splice-on connectors and ribbon pigtails. These cables are an excellent choice for

intra-building connectivity applications for data center and other network application scenarios.

Flexible dielectric strength members provide mechanical durability within a flame retardant jacket and the non-preferential bend axis allows for easy installation in space-constrained areas. The all-dielectric cable construction requires no grounding or bonding. The Cables meets OFNR and CSA FT4 specifications and are available in all fiber types.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- Patented Peelable Ribbon Matrix Material For Easy Fiber Access
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Color-Coded Optical Fibers for Quick and Easy Identification
- All-Dielectric Cable Construction Requires No Grounding or Bonding
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNR/CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)		Weight (kg./km.) (lbs./kft.)		Tube Entry Tool
12 to 96	1	12	13.2	0.52	151	102	UCTS-001
108 to 216	1	12	15.7	0.62	190	128	
288 to 432	1	24	20.5	0.81	313	210	
576 to 864	1	36	25.6	1.01	478	321	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 1 R P 4444 - 5**

1

4

5

1

#### Fiber Type\*

1 = 50µm Multimode Fiber (OM2/3/4)  
(Only for 12 to 432f Count)

8 = PureAccess G.657.A1 Bend Insensitive Single-mode Fiber

4

#### Fiber Count (4-digits)

Total number of fibers in the cable (0012-0864)

5

#### Fiber Attenuation Grades

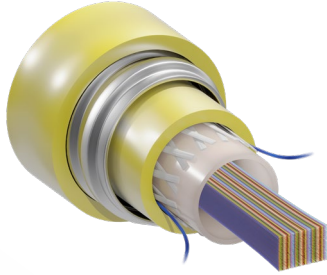
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

7 = OM3 Enhanced performance 50µm MM 3.5/1.5 dB/km (850/1300nm) 10Gb

8 = OM4 Enhanced performance 50µm MM 3.5/1.5 dB/km (850/1300nm) 10Gb

## Indoor Interlocking Armored Riser Ribbon Cables

12-864F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Armored Indoor Riser Rated Ribbon cables feature a flame retardant outer jacket, 250µm color-coded optical fibers for easy fiber identification, and Sumitomo's exclusive patented easy split and peel technology for easy fiber access and unprecedented ease of handling and splicing. The 12 fiber ribbon subunits enable easy connectorization with MPO splice-on connectors and ribbon pigtails. These cables are an excellent choice for intra-building connectivity applications

for data center and other network application scenarios.

Flexible dielectric strength members provide mechanical durability within a flame retardant jacket and the non-preferential bend axis allows for easy installation in space-constrained areas. The cable also features an interlocking armor adding protection against crushing forces. The Cables meets OFCR and CSA FT4 specifications and are available in all fiber types.

### FEATURES

- Dry Central Tube Design for Easy Installation; No Mess When Splicing
- Patented Peelable Ribbon Matrix Material For Easy Fiber Access
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Color-Coded Optical Fibers for Quick and Easy Identification
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFCR/CSA FT4 Listed
Operation Temperature Range	-20 to 70°C (-4 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Core Diameter (mm) (in.)		Jacketed Armor Diameter (mm) (in.)		Weight (kg./km.) (lbs./kft.)		Tube Entry Tool
12 to 96	1	12	13.6	0.53	21.0	0.82	355	239	UCTS-001
108 to 216	1	12	16.1	0.63	23.6	0.92	375	252	
288 to 432	1	24	20.8	0.81	29.4	1.15	575	386	
576 to 864	1	36	25.6	1.01	38.4	1.51	1003	674	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 1 R L 4444 - 5**



#### 1 Fiber Type\*

1 = 50µm Multimode Fiber (OM2/3/4)  
(Only for 12 to 432f Count)

8 = PureAccess G.657.A1 Bend Insensitive Single-mode Fiber



#### 4 Fiber Count (4-digits)

Total number of fibers in the cable (0012-0864)



#### 5 Fiber Attenuation Grades

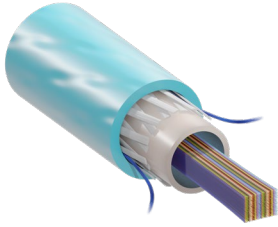
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

7 = OM3 Enhanced performance 50µm MM (850/1300nm) 10Gb

8 = OM4 Enhanced performance 50µm MM (850/1300nm) 10Gb

## Flexible Indoor Plenum Ribbon Cables

12-432F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's Flexible Indoor Plenum Rated Ribbon Cables are the industry's first and only with up to 432 fibers. The cables are designed for fiber density and the savings of valuable duct space, making them an ideal choice for intra-building applications. These cables feature 250µm color-code optical fibers for easy fiber identification and Sumitomo's exclusive patented Easy Split & Peel technology for easy fiber access and unprecedented ease of handling and splicing. The twelve fiber ribbon

groupings enable easy connectorization with both MPO and all industry standard connectors.

Flexible dielectric members provide mechanical durability within a flame retardant jacket, while the non-preferential bend axis allows for easy installation in space-constrained areas. The all-dielectric cable construction eliminates the need for grouping or bonding. These plenum rated cables meet or exceed OFNP and CSA FT-6 approvals and listings.

### FEATURES

- 432 Fibers for High Density Applications
- Dry Central Tube Design
- Color-Coded Optical Fibers for Quick and Easy Identification
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- All-Dielectric Cable Construction Requires No Grounding or Bonding
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	300 lbs
Maximum Recommended Service Load	100 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFNP/CSA FT-6 Listed
Operation Temperature Range	0 to 70°C (32 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)		Weight (kg./km.) (lbs./kft.)		Tube Entry Tool
12 to 48	1	12	10.3	0.44	187	126	UCTS-001
60 to 96	1	12	14.0	0.55	192	129	
108 to 216	1	12	16.6	0.65	257	173	
288 to 432	1	24	21.6	0.85	392	263	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

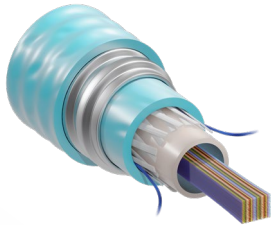
**SE - 1 RU4444 - 5**



- 1 Fiber Type\***  
1 = 50µm Multimode Fiber (OM2/3/4)  
2 = 62.5µm Multimode Fiber (OM1)  
8 = PureAccess G.657.A1 Bend Insensitive Single-mode Fiber
- 4 Fiber Count (4-digits)**  
Total number of fibers in the cable (0012 to 0432)
- 5 Fiber Attenuation Grades**  
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)  
7 = OM3 Enhanced performance 50µm MM 3.5/1.5 dB/km (850/1300nm) 10Gb  
8 = OM4 Enhanced performance 50µm MM 3.5/1.5 dB/km (850/1300nm) 10Gb

## Indoor Interlocking Armored Plenum Cables

12-432F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's new Indoor Interlocking Armored Plenum cable, featuring a fiber count of up to 432 fibers, is ideal for high density networks and saves valuable duct space in the building.

The cable features 250µm color-coded optical fibers for easy fiber identification and Sumitomo Electric Lightwave's patented Easy Split and Peel technology for easy fiber access and unprecedented ease of handling and splicing. The twelve ribbon groupings enable easy

connectorization with both MPO and industry standard connectors. The cable also features an interlocking armor adding protection against crushing forces.

Flexible dielectric strength members within the cable core provide mechanical durability within a flame retardant jacket and the non-preferential bend axis allows for easy installation in space-constrained areas. These plenum rated cables meet or exceed OFCP and CSA FT-6 approvals and listings.

### FEATURES

- 432 Fibers for High Density Applications
- Dry Central Tube Design
- Color-Coded Optical Fibers for Quick and Easy Identification
- 12-Fiber Grouping for Ease and Compatibility with Multi-Fiber Connectors
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Testing	OFCP/CSA FT-6 Listed
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Core Diameter (mm) (in.)	Jacketed Armor Diameter (mm) (in.)	Weight (kg./km.) (lbs./kft.)	Tube Entry Tool
12 to 48	1	12	10.5 0.41	17.3 0.68	298 199	UCTS-001
60 to 96	1	12	14.0 0.55	21.0 0.83	398 267	
108 to 216	1	12	16.6 0.65	22.0 0.87	439 295	
288 to 432	1	24	21.6 0.85	29.3 1.15	656 441	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 1 RH4444 - 5**



#### Fiber Type\*

1 = 50µm Multimode Fiber (OM2/3/4)

2 = 62.5µm Multimode Fiber (OM1)

8 = PureAccess G.657.A1 Bend Insensitive Single-mode Fiber



#### Fiber Count (4-digits)

Total number of fibers in the cable (0012 to 0432)



#### Fiber Attenuation Grades

B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)

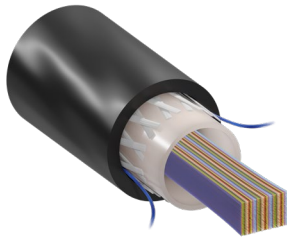
7 = OM3 Enhanced performance 50µm MM (850/1300nm) 10Gb

8 = OM4 Enhanced performance 50µm MM (850/1300nm) 10Gb



## Indoor/Outdoor Riser Ribbon Cables

12-144F



### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Indoor-Outdoor Riser Rated Ribbon Cables feature 250µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented easy split and peel technology for easy fiber access and unprecedented ease of handling and splicing. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy installation in space constrained areas.

The cables include a dielectric strength member with a flexible, flame-retardant outer jacket in its all dielectric cable construction that eliminates grounding or bonding. Sumitomo's Indoor-Outdoor Riser Rated Ribbon Cables also eliminate the need for installers to switch from an outside plant to a premise cable when transitioning from the outside plant to inside plant. The cables meet OFNR and CSA FT4 specifications and are available in all fiber types.

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Color-Coded Fibers for Quick and Easy Identification
- Patented Peelable Ribbon Matrix Material For Easy Fiber Access
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- All-Dielectric Cable Construction Requires No Grounding or Bonding
- Meets OFNR and CSA FT4 Specifications
- All Dry Cable Construction Contains No Messy Gels, Thereby Making the Installation Faster
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Fire Resistance	OFNR\CSA FT4
Operation Temperature Range	0 to 70°C (32 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Core Diameter (mm) (in.)	Weight (kg./km.) (lbs./kft.)	Tube Entry Tool
12 to 48	1	12	15.5 0.61	152 102	UCTS-001
60 to 144	1	12	17.0 0.67	230 155	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

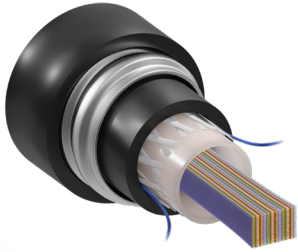
**SE - 1 RG4444 - 5**



- 1 Fiber Type\***  
1 = 50µm Multimode Fiber (OM2/3/4) (Only for 12 to 144f Count)  
8 = PureAccess G.657.A1 Bend Insensitive Single-mode Fiber
- 4 Fiber Count (4-digits)**  
Total number of fibers in the cable (0012 to 0432)
- 5 Fiber Attenuation Grades**  
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)  
7 = OM3 Enhanced performance 50µm MM (850/1300nm) 10Gb  
8 = OM4 Enhanced performance 50µm MM (850/1300nm) 10Gb

## Indoor/Outdoor Interlocking Armored Riser Ribbon Cables

12-144F



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level™ Indoor-Outdoor Riser Rated Ribbon Cables feature 250µm color-coded optical fibers for easy fiber identification and Sumitomo's exclusive patented easy split and peel technology for easy fiber access and unprecedented ease of handling and splicing. The twelve fiber ribbons enable connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy installation in space

constrained areas.

The cable also features an interlocking armor adding protecting against crushing forces. Sumitomo's Indoor-Outdoor Interlocking Armored Riser Rated Ribbon Cables also eliminate the need for installers to switch from an outside plant to a premise cable when transitioning from the outside plant to inside plant. The cables meet OFCR and CSA FT4 specifications and are available in all fiber types.

### FEATURES

- Color-Coded Fibers for Quick and Easy Identification
- Patented Peelable Ribbon Matrix Material For Easy Fiber Access
- 12 Fiber Ribbon Groupings For Ease and Compatibility with Multi-Fiber Connectors
- Meets OFCR and CSA FT4 Specifications
- All Dry Cable Construction Contains No Messy Gels, Thereby Making the Installation Faster
- RoHS Compliant

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	220 N/cm (124 lbs/in)
Fire Resistance	OFCR / CSA FT4
Operation Temperature Range	0 to 70°C (32 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Core Diameter		Jacketed Armor Diameter		Weight		Tube Entry Tool
			(mm)	(in.)	(mm)	(in.)	(kg./km.)	(lbs./kft.)	
12 to 48	1	12	15.5	0.61	22.7	0.89	384	258	UCTS-001
96 to 144	1	12	17.0	0.67	26.0	1.02	419	281	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

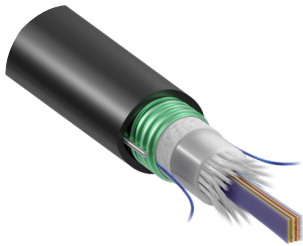
**SE - 1 RR4444 - 5**



- 1 Fiber Type\***  
1 = 50µm Multimode Fiber (OM2/3/4) (Only for 12 to 144f Count)  
8 = PureAccess G.657.A1 Bend Insensitive Single-mode Fiber
- 4 Fiber Count (4-digits)**  
Total number of fibers in the cable (0012 to 0864)
- 5 Fiber Attenuation Grades**  
B = Standard Single-mode 0.40/0.30 dB/km (1310/1550 nm)  
7 = OM3 Enhanced performance 50µm MM (850/1300nm) 10Gb  
8 = OM4 Enhanced performance 50µm MM (850/1300nm) 10Gb

12-432F

## Armored Outside Plant Ribbon Cables



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

DriTube ribbon optical cables are intended for duct, direct buried, and lashed aerial installations. 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. DriTube cables are installer friendly, lighter in weight than conventional gel-filled cables, and allow for easier cable handling, easy mid-span entry, and superior fiber access ability. The steel armored sheath construction produces a rugged, rodent resistant cable and adds compressive strength required for direct buried applications.

### FEATURES

- Industry's First Gel-free OSP Ribbon Cable with Up to 432 Fibers
- Armored Construction
- Central Tube Provides Easy Mid-span Access
- 12 and 24 Patented Peelable Optical Fiber Ribbons
- Industry Standard MDPE Sheath
- Complies with EIA/TIA, Telcordia, RUS, ICEA, and IEC Requirements

### SPECIFICATIONS

Property	Specification
Maximum Tensile Load During Installation	600 lbs
Maximum Recommended Service Load	200 lbs
Minimum Bend Radius (During/After Installation)	20/10 x Cable OD
Compression Resistance	440 N/cm (248 lbs/in)
Installation Temperature Range	-30 to 60°C (-22 to 140°F)
Operation Temperature Range	-40 to 70°C (-40 to 158°F)

### PHYSICAL CHARACTERISTICS

Fiber Count	Max. No. of Tubes	No. Fibers Per Ribbon	Cable Outer Diameter (mm) (in.)		Weight (kg./km.) (lbs./kft.)		Tube Entry Tool
12 to 48	1	12	14.0	0.55	182	110	UCTS-001
60 to 96	1	12	14.7	0.58	208	140	
108 to 144	1	12	16.2	0.64	252	169	
156 to 216	1	12	20.4	0.80	305	205	
240 to 288	1	24	21.9	0.86	371	249	
312 to 432	1	24	24.6	0.97	425	286	

### ORDERING INFORMATION

Create a Part Number by Using this Character Set & Codes

**SE - 1 DB4444 - 5**



**1 Fiber Type\***  
8 = PureAccess G.657.  
A1 Bend Insensitive  
Single-mode Fiber

**4 Fiber Count (4-digits)**  
Total number of fibers  
in the cable (0012 to 0432)

**5 Fiber Attenuation Grades**  
B = Standard Single-mode  
0.40/0.30 dB/km  
(1310/1550 nm)

# FUSION SPLICING

& CONNECTIVITY SOLUTIONS

## Quantum® Q102-CA Core Alignment Fusion Splicer



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

The Quantum Type-Q102-CA is Sumitomo Electric Lightwave's next generation of the industry leading Quantum core alignment fusion splicers, redesigned from the ground up to redefine the industry standard in optical fiber core alignment fusion technology. Maintaining all of the qualities and industry first features of the Quantum Type-Q101-CA, the TYPE-Q102-CA continues to raise the bar in performance by still being the fastest splicer with blazing fast 5 second splice and 9 second sleeve heating times. These new speeds, coupled with the splicer's patent protected dual independent ovens, makes it the fastest in the industry by far. The built-in dual heater system, with its unprecedented speed, improves splicing efficiency by over 80% for perfectly streamlined, consecutive, and cost effective splices. The TYPE-Q102-CA's completely redesigned software user interface is the first splicer in the world

to now be built on the Linux operating system bringing a familiar smartphone style intuitive experience to the user making even inexperienced users effective in a fraction of the time. The new 5 inch WVGA 800 X 480 high resolution screen with active pan and zoom, allows a user to carefully inspect minute areas of a fiber with a simple drag, pinch, or expand with fingers directly on the screen making the identification of problem areas simple and quick. Along with being the most advanced core alignment fusion splicer in the industry; it has also been refitted with the most rugged mechanisms able to withstand almost twice the shock, of the previous generation with superior dust, shock and water-proof resistance, making it the ideal choice for even the harshest environments.

### FEATURES

- Dual Independent Heat Shrink Ovens
- Fastest Splicer with 5 sec. Splice time and Dual 9 sec. Heaters
- WVGA High Resolution, Fully Navigational Touch Screen Monitor
- SD Port for Virtually Unlimited Data Storage
- Internet Interface for Remote Maintenance & Software Upgrades
- Smartphone-Like User Interface
- Wide Angle LED Work Area Illumination
- Ruggedized Design for Shock, Water, and Dust Resistance
- Automatic Splice Start, Arc Calibration, Heater Start and Fiber Identification
- Long Life Battery for 300 Splice and Heater Cycles per Charge
- Battery Recharges While Splicing
- Long Life Electrodes up to 6,000 arcs
- Lynx2 CustomFit® Splice-On Connector Compatibility
- Three Year Warranty Included
- 24-Hour Technical Support via 1-888-SPLICER

### PHYSICAL CHARACTERISTICS

Size (mm)	128W x 154D x 130H
Weight	2.1kg with Battery
Display Type	5 inch Color, Low Glare, High Resolution Touch Screen Monitor
Shock-Free Fall	76cm from 5 sides
Waterproof	IPx2
Dustproof	IPx5
Battery Docking Bay	Internal

### TYPE-Q102-CA ORDERING INFORMATION

#### Type-Q102-CA-KIT-1 Components

- Type-Q102-CA Quantum Splicer
- Hard Transit Case
- Work Platform
- AC Adapter
- Standard Battery
- Cleaning Tools
- Fiber protection Sleeve
- Cooling Tray
- Manual
- Fiber Optic Stripper
- Spare Electrodes

#### Type-Q102-CA-KIT-2

Includes All of KIT-1 Components; Plus FC-6S-C Fiber Optic Cleaver

#### Type-Q102-CA-KIT-6RSC

Includes All of KIT-1 Components; Plus FC-6RS Precision Bench Top Automatic Blade Rotation Cleaver

#### Type-Q102-CA-KIT-8R

Includes All of KIT-1 Components; Plus FC-8R Hand-Held Automatic Blade Rotation Cleaver

## Quantum® Q102-M12 Ribbon Fiber Fusion Splicer



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### FEATURES

- Automatic Clamp Force Adjustment & Real-Time Clamp Force Calibration, Minimizing Fiber to Fiber Offset for Splicing and MPO Terminations
- Dual Independent Heat Shrink Ovens with Auto Pretension Clamps, Increasing Splicing Efficiency by 70%
- High Resolution, Fully Navigational, Touch Screen Monitor
- Internet Interface for Remote Maintenance & Software Upgrades
- Typical 11 Second Splice & 35 Second Heater Cycle Time Makes the Quantum the Fastest Mass Splicer with a 12 Fiber Splice Under 70 Seconds
- SD Port for Virtually Unlimited Data Storage; Plus Video, Audio, and Software Uploads/ Downloads
- Lightest Weight & Smallest Footprint Mass Fusion Splicer
- Largest 640 x 320 Fiber View and Longest Electrode Life

### OTHER FEATURES INCLUDE:

- Ruggedized Design for Superior Shock, Water, and Dust Resistance
- Auto Splice Start, Arc Calibration, Heater Start, and Fiber Identification
- Typical Splice Loss: SMF: 0.05dB; MMF: 0.02dB; NZ-DSF: 0.08dB
- Hard Carrying Case with Integrated Work Platform
- Multiple Positional Monitor with Automatic Display Inversion
- Long Life Battery Recharges While Splicing with AC Power
- Lynx2 CustomFit® Splice-On Connector Compatibility
- RoHS Compliant

### PHYSICAL CHARACTERISTICS

Size (mm)	128W x 154D x 130H
Weight	2.1kg with Battery
Display Type	5.0 Color, Low Glare, High Resolution Touch Screen Monitor
Shock-Free Fall	76cm from 5 sides
Waterproof	IPx2
Dustproof	IPx5
Wind Protection	30mph (15m/s)
Battery Docking Bay	Internal

### TYPE-Q101-M12 ORDERING INFORMATION

#### Type-Q102-M12-KIT-6RM1 Components

- Quantum Mass Fusion Splicer
- Precision Automatic Blade Rotation
- Fiber Cleaver
- Heated Jacket Remover
- Power Cord
- V-Groove Brush
- Spare Electrodes
- Manual
- 250µm Holders
- 12ct. Ribbon Fiber Holders
- Hard Case
- Cooling Tray

#### Type-Q102-M12-KIT-6RM2 Components

Includes All Type-Q102-M12-6RM1 Contents; Plus Ribbonizing Tool and Consumable Kit

#### Type-Q102-M12-KIT-MPO2 Components

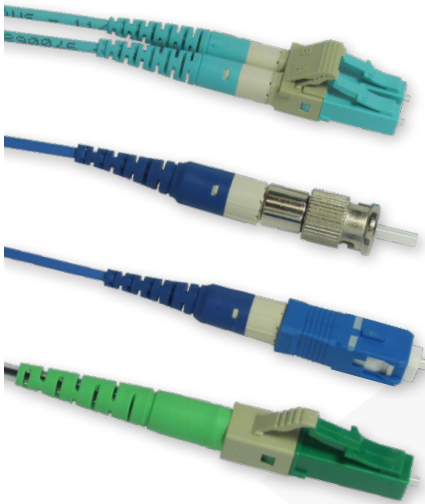
- Quantum Mass Fusion Splicer
- Cleaver
- Heated Jacket Remover
- Power Cord
- V-Groove Brush
- Spare Electrodes
- Hard Case
- MPO Assembly Tool Kit
- Consumable Kit
- 12ct. Ribbon Fiber Holders
- 250µm Holders
- Cooling Tray

#### Type-Q102-M12-KIT-8R Components

Includes KIT-MPO2 Contents with FC-8R



## Lynx CustomFit™ Splice-On Connectors Single Package (PATENTED)



### DESCRIPTION

Sumitomo Electric Lightwave continues its tradition of innovation and customer focused, market driven product advancements with the release of the Lynx2-PLUS. Maintaining all of the quality standards of the Lynx2, the Lynx2-PLUS incorporates an enhanced installation procedure and smaller overall completed connector design.

With the Lynx2-PLUS, termination time for 2 and 3 mm cord applications has been reduced by half for complete connectorization in approximately 2 minutes. The new connectors no longer require furcation tubing for 2 and 3 mm applications, resulting in shorter, more aesthetic connectors. The finished product mirrors factory pre-terminated jumpers, trunks, harnesses, and/or arrays.

Like the Lynx2-MPO, customized, On-Site, Real-Time field terminations, and cable builds at exact lengths are now made possible, enabling quick, easy, and reliable customized permanent field terminations without the shorts, excess slack, and logistic delays of pre-terminated cables.

Compatible with all SC, LC, FC, and ST style fiber optic connectors, Lynx2-PLUS offers revolutionary Real-Time, On-Site flexibility for quick MACs, repairs, and restorations for minimal downtime; While eliminating crimping tools, gels, splice trays, and the inventory of varying length of pre-terminated jumpers — providing the industry's most cost effective, reliable, and advanced choice in fiber termination.

### FEATURES

- Improved Design for High Density Applications
- New 2 Minute Approximate Connectorization for 2 and 3mm Cord; (250 & 900µm in 96 seconds or less) and removes the need for splice trays
- Achieve exact Lengths On-Site, without the Risk of Shorts & Slack of Preterminated Cables
- Eliminates Logistic Delays of Pre-Engineered Cables/Jumpers
- Less Time, Material, and Labor Costs than Other Connectivity Methods
- Cross Compatible with all SC, LC, FC, and ST Connectors
- Consistent & Reliable Results with Single-Mode and Multimode Fiber
- Low Insertion & Return Losses for Superior Signal Integrity
- Compatible with Sumitomo Splicers and Other Brands
- Instant Splice Loss Feedback
- Meets Telcordia GR-326-CORE and GR-1081-CORE Compliance

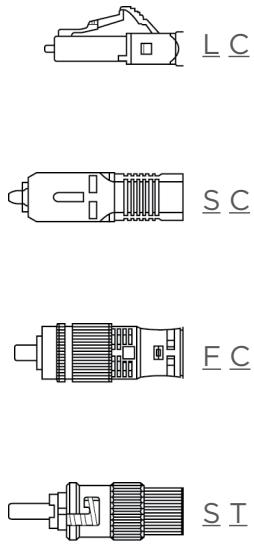
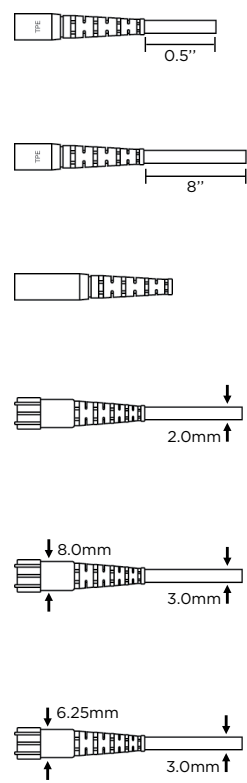


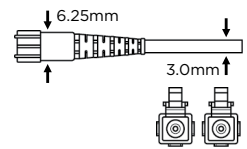
### SPECIFICATIONS

Connector Type	SC	LC	FC	ST	
Fiber	SM, MM (62.5µm, 50µm, 50µm 10GIG)				
Media Type	250µm, 900µm, 2mm, 3mm				
Polish	APC, UPC, PC				
Insertion Loss	SMF: 0.15dB (average), 0.3dB (maximum) MMF: 0.10dB (average), 0.25dB (maximum)				
Return Loss	SMF: >65dB (APC), >55dB (UPC) MMF: >30dB (PC)				
Operating Temp	-40°F 75°C				
Housing color	SMF		MMF		
	UPC	APC	PC 62.5µm	PC 50µm	PC 50µm 10GIG
	Blue	Green	Beige	Black	Aqua

For more information on this cable, or other related products, visit:

[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

**LYNX Part Numbering Guide (Single Package)**

<p><b>LYNX2 - AA</b> (AA = Connector Style)</p>	<p><b>BBB</b> (BBB = Endface Polish)</p>	<p><b>CCCCC</b> (CCCCC = Fiber Type)</p>	<p><b>DDDDDD</b> (DDDDDD = Media Diameter)</p>
 <p>LC SC FC ST (Not Available in APC)</p>	<p><b>APC</b> Angled Polished &lt;-65dB Single-mode <b>GREEN HOUSING</b></p> <p><b>UPC</b> Ultra Polished &lt;-55dB Single-mode <b>BLUE HOUSING</b></p> <p><b>PC</b> Physical Contact &lt;-30dB - Multimode</p>	<p><b>SM</b> Single-mode</p> <p><b>M6</b> Multimode 62.5µm <b>BEIGE HOUSING</b></p> <p><b>M5</b> Multimode 50µm <b>BLACK HOUSING</b></p> <p><b>M510G</b> Multimode 50µm Laser Optimized OM3 &amp; OM4 Compatible <b>AQUA HOUSING</b></p>	 <p><b>250900</b> For 250µm or 900µm Tight Buffer</p> <p><b>250FT8</b> For 250µm with 8" Furcation Tube <i>This option is only for Singlemode SC-UPC &amp; SC-APC</i></p> <p><b>900LT</b> For 900µm Tight and Loose Buffer/ABF Breakout Kit Compatible</p> <p><b>2.0</b> For 2.0mm Cord</p> <p><b>3.0</b> For 3.0mm Cord</p>
<p><b>EXAMPLES</b></p>			
	<p><b>LYNX2 - LCPC - M510G - 2.0</b> Part Number is: LYNX2-LCPCM510G-2.0</p>		
	<p><b>LYNX2 - SCUPCSM - - - - 250900</b> Part Number is: LYNX2-SCUPCSM-250900</p>		 <p><b>3.0 DCL</b> Only for LC Duplex Application with 3.0mm Cord</p>



**TOOL KITS AND ACCESSORY ORDERING GUIDE**

Part Number	Description	Media Type	
		250µm	2mm
		900µm	3mm
LYNX2-TKU-2.0-3.0	Lynx2 Tool Kit for 2.0/3.0mm	✓	✓
LYNX2-CORDTOOL-2.0-3.0	Cord Prep Tool for 2.0/3.0mm		✓
LYNX2-HOLDER-C	Plastic Ferrule Holder (Sumitomo & New Competitor Splicers)	✓	✓
LYNX2-UML-C	Lynx2, Ferrule Side Holder, Metal/Universal	✓	✓
LYNX2-UML-S	Lynx2, Splice Sleeve Side Holder, Metal/Universal	✓	✓
FHS-025-LB5	Fiber Holder, Loose Buffer 250/900µm, 900LT	✓	✓
LYNX-SHEARS	Kevlar Cutters		✓
JR-M03	Jacket Remover	✓	✓
LYNX2-ST-AT-01	ST Assembly Tool	✓	✓
LYNX2-DUPLEX CLIP-LC	Duplex Clip for LC	✓	✓
LYNX2-DUPLEX CLIP-SC	Duplex Clip for SC	✓	✓



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

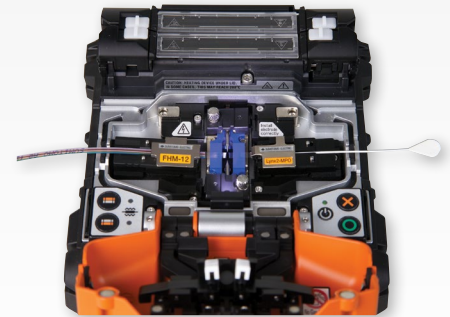
## Lynx2 CustomFit™ MPO Splice-On Connectors

### DESCRIPTION

Sumitomo's Lynx2-MPO is the industry's first MPO fusion splice-on field installable connector for customized, on-site, terminations. The breakthrough technology of the Lynx2-MPO meets the needs of the network for greater, optical fiber density and addresses the connectivity demands for faster and easier terminations, upgrades, repairs and restorations, and significant cost savings required for today's data center, enterprise network, outside plant, OEM, central office, and virtually any FTTx network application.

MTP® compatible, the Lynx2-MPO is the perfect solution for optical fiber ribbon, loose tube, round cord, and patch cord terminations. Like all Lynx2 fusion splice-on connectors (SC, LC, FC, and ST), the Lynx2-MPO allows the technician to make permanent terminations with the exact

cable length for fast and easy installations and upgrades at the work site. The on-site customization facilitated by the Lynx2 connectivity method eliminates the risk of shorts and slack, repair lag, and logistic delays associated with preterminated cables and pigtailed — making the Lynx2-MPO your best choice in customized fiber termination.



### FEATURES

- Industry's First MPO Field Installable, Fusion Splice-On Connector
- Cuts Time, Material, and Labor Costs
- Eliminates Logistical Delays of Pre-Engineered Cables
- Guide Pins for Precision Alignment (Male Only)
- Color Coded Housing
- Compatible with Optical Ribbon Fiber and Round Cord 12ct. Loose Tube
- Customizable Field Polarity Management
- EIA/TIA-604-5, FOCIS 5, IEC-61754-7 Compliant

### SPECIFICATIONS

Connector Type	SMF: Low Loss	SMF: Standard	MMF: OM1	MMF: OM2	MMF: OM3
Polish	Angled	Angled	Flat	Flat	Flat
Housing Color	Yellow	Green	Beige	Black	Aqua
Typical Insertion Loss	.10dB	.25dB	.10dB	.10dB	.10dB
Maximum Insertion Loss	≤.35dB	≤.75dB	≤.35dB	≤.35dB	≤.35dB
Return Loss	≥ 60dB	≥ 60dB	≥ 20dB	≥ 20dB	≥ 20dB

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

**LYNX-MPO- PART NUMBERING GUIDE**

**LYNX2-MPO12 A**

(A = Connector Gender)



M  
(Male)



F  
(Female)

**POLARITY**

Specifying Polarity is not required.  
See installation instructions.

**B B**

(BB = Fiber)

**S M**

(Single-Mode)



**L L**

Low Loss  
(IL ≤ 35dB RL ≥ 60dB)

**YELLOW HOUSING**



**S L**

Standard Loss  
(IL ≤ 75dB RL ≥ 60dB)

**GREEN HOUSING**

**M M**

(Multimode)



**O 1**

Multimode 62.5µm  
(IL ≤ 35dB RL ≥ 20dB)

**BEIGE HOUSING**



**O 2**

Multimode 50µm  
(IL ≤ 35dB RL ≥ 20dB)

**BLACK HOUSING**



**O 3**

Multimode 50µm  
Laser Optimized  
(IL ≤ 35dB RL ≥ 20dB)

**AQUA HOUSING**

**D D D D D**

(DDDDD = Fiber Media)



**R B N** \_ \_

For 12f Ribbon  
(No Jacket)



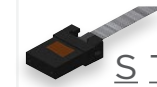
**R B C** \_ \_

For 12f Ribbon  
(With Jacket)



**R C 3 . 0**

For 3.0mm Cord



**S T U B** \_

Ferrule Stub Only

**EXAMPLES**

(LYNX2-MPO12-ABBCC-DDDDD-EEE)



LYNX2 - MPO12 M - S M L L - R B N \_ \_  
Part Number is: LYNX2-MPO12M-SMLL-RBN



LYNX2 - MPO12 F - M M O 3 - R C 3 . 0  
Part Number is: LYNX2-MPO12F-MM03-RC3.0

**BULK EXAMPLE**

LYNX2-MPO12 F - M M O 2 - S T U B \_ - B L K  
Part Number is: LYNX2-MPO12F-MM02-STUB-BLK

**TOOL KITS AND ACCESSORY ORDERING GUIDE**

Part Number	Description
LYNX2-CORDTOOL-2.0-3.0	Lynx2 SOC, Cord Prep Tool, 2/3mm
FA-03	Fiber Arrangement Tool for Lynx2-MPO
FAC-24	Consumables for Fiber Arrangement Tool (Makes ~30 Ribbons)
FAC-24-003-A	Adhesive for Fiber Arrangement Tool (Included in FAC-24)
FHM-12-MPO-MTL	Lynx2-MPO Ferrule Holder, Metal/Universal
FHM-12-MPO-PLS	Lynx2-MPO Ferrule Holder, Plastic/Universal
LYNX2-TKU-MPO-RCATK	Tool Kit for Terminating Connectors onto Round Cord and Jacketed Ribbon Includes: Assembly Platform with Integrated Fiber Arrangement Tool, Adhesive, Cord Prep Tool, Metal MPO Ferrule Holder, Kevlar® Shears, Backpack
LYNX2-ATK2-MPO	Assembly Platform with Integrated Fiber Arrangement Tool
LYNX2-HRT-1	MPO Outer Housing Disassembly Tool

MTP is a registered trademark of US Conec. Kevlar is a registered trademark of DuPont.



## PrecisionFlex® Sliding Patch Panels



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's 4th Level® sliding patch panels are specifically designed for the flexibility to house high density cassettes or LGX cassettes/interconnect panels by choosing either high density or LGX faceplates. A wide range of cable management options provide a variety of solutions and versatility for your particular application. The ideal choice for data center, storage

area network (SAN), local area network (LAN), and central office / headend applications, 4th Level™ panels facilitate easy installation, fiber access, and maintenance for years of worry-free service. Mounting brackets allow for forward and backward adjustment within a standard 19" relay rack or cabinet. These panels also feature a rugged construction with a user friendly design for no hassle installations.

### FEATURES

- Interchangeable Face Plates Can Be Used to Support Different Cassette Formats
- Black Powder Coated Aluminum for Durability
- Removable Front and Rear Doors
- Versatile Rack Mounting Brackets
- Accepts industry standard interconnect panels

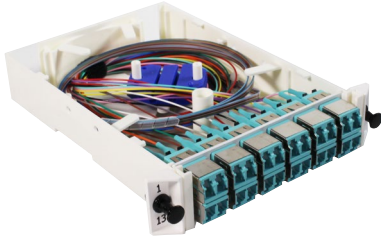
### BENEFITS

- Large Variety of Connector Options
- Easy Access to Rear of Cassettes or Splice Trays
- Scalable as Density Needs Change
- Stacked Panels Can Be Accessed Due To New Removable Door Designs

### ORDERING INFORMATION

Part Number	Rack Units	Modules/Interconnect Positions	Maximum LC Fiber Ports	Maximum SC Fiber Ports
<b>FT01H08</b>	1	HD-8	96	48
<b>FT01L03</b>	1	LGX-3	72	36
<b>FT02H24</b>	2	HD-24	288	144
<b>FT02L06</b>	2	LGX-6	144	72
<b>FT02P144-01</b>	2	144 SC/LC DX Adapters	288	144
<b>FT03H36</b>	3	HD-36	432	216
<b>FT03L09</b>	3	LGX-9	216	108
<b>FT04H48</b>	4	HD-48	576	288
<b>FT04L12</b>	4	LGX-12	288	144

## PrecisionFlex™ Fiber Optic eXchange Cassette



For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### DESCRIPTION

Sumitomo Electric Lightwave's Fiber Optic eXchange Cassette accepts all types of cordage to eliminate splice trays and terminate cables into cassettes quickly, safely, and elegantly.

The white ABS body gives excellent visibility for fiber colors and the removable splice shuttle makes installation much more convenient. The eXchange Cassette features wall mounting holes in the body allowing the user to mount anywhere. In addition to accepting all cable types (including Air Blown Fiber tubes), the entry points double as MPO adapter

ports give the flexibility to convert the cassette into an MPO cassette.

The LC adapters are shuttered and the faceplate can be removed even after installation into a patch panel allowing for easy cleaning or repair of the internal connectors.

A unique feature of the eXchange Cassette is that the dust plug illuminates when a VFL is used, quickly showing continuity of the system.

### FEATURES

- Loadable from Rear of Panel with Proprietary Removable Mounting Ears
- DIN Rail Mountable
- Shuttered LC Adapters
- White ABS Body
- LGX Footprint
- Translucent Lid With Tool-Free Removal
- Available In Ribbon and Tight Buffer
- Removable Faceplate
- Cable Entry Points Double As MPO Adapter Ports
- Wall Mountable
- Air Blown Fiber Compatible
- Removable Splice Sleeve Holder
- <0.30 dB IL, LC-UPC

### BENEFITS

- Extremely Flexible Design
- Accepts All Types Of Cable
- Eliminates The Need For Bulky Splice Trays
- Terminate Cables Into Cassettes Quickly, Safely, and Elegantly

### ORDERING INFORMATION

#### FT11-FSP22333444-5555

1- Front Connector Type	2- Fiber Count	3- Fiber Construction	4- Fiber Type	5- Special
<b>LC</b> - LC Connector	<b>06</b> - 6 Fiber	<b>RBN</b> - Ribbon	<b>OS2</b> - Singlemode	<b>APFC</b> - Angle Polish Front Connector
<b>SC</b> - SC Connector	<b>12</b> - 12 Fiber	<b>TBF</b> - Tight Buffer	<b>OM4</b> - Laser Optimized 50µm Multimode	<b>MP12</b> - 12 Fiber MPO
<b>ST</b> - ST Connector	<b>24</b> - 24 Fiber		<b>OM1</b> - 62.5µm Multimode	<b>MP24</b> - 24 Fiber MPO



## PrecisionFlex™ LGX Cassette



### DESCRIPTION

Sumitomo LGX Cassettes are designed to be compatible with the industry standard LGX format. Available in many formats, LGX cassette modules are used to break out MPO trunk cables or ribbon to LC or SC connectors as part of a fiber optic connectivity system.

### FEATURES

- Built-In Latching System
- No field Termination or Testing Required
- Modular Design Can Be Expanded as Needed
- No special tools or expertise required
- Insertion Loss Throughput: <0.75dB
- RoHS Compliant

### ORDERING INFORMATION

Part Number	Description
FTLC-MP12COM4-L-V	Cassette, 12F MPO-LC, OM4, LGX
FTLC-MP12COS1-L-V	Cassette, 12F MPO-LC, SM, LGX
FTLC-MP24COM4-L2-V	Cassette, 2x12F MPO-24 LC, OM4, LGX
FTLC-MP24COS1-L2-V	Cassette, 2x12F MPO-24 LC, SM, LGX

## PrecisionFlex™ HD Cassette



### DESCRIPTION

The new high density (HD) MPO cassette from Sumitomo brings innovative features to the highest capacity format cassette available. Made from anodized aluminum, the cassette is very light and durable with a shortened depth to fit into the tightest of spaces. The front of the cassette features dual-door shuttered adapters which protect the installed connectors for even the most severe dusty conditions. The MPO adapter in the rear of the cassette features a polarity changing design allowing the cassette

to reverse the fiber routing from MPO to LC with a simple key-flip of the adapter (MM-only due to flat polish angle). The HD cassette can be installed and removed from the front of the panel with a squeeze to the release tabs. For retrofit applications to LGX formats, the HD cassette is available with conversion brackets to achieve 24 LC connectors in a single LGX opening.

### FEATURES

- Shuttered LC adapters standard reversible polarity MPO adapter standard on MM cassettes
- Requires only 50% of the Rack Space of an LGX system- 288 LC in a 2RU patch Panel
- Compact Size and Built-In Latching System for front-side installation and removal
- Modular Design Can Be Expanded as Needed
- Insertion Loss Throughput: <0.75dB
- RoHS Compliant

### ORDERING INFORMATION

Part Number	Description
FTLC-MP12COS2-HD	HD Cassette, 12F MPO-LC, SM, Blue-Shuttered
FTLC-MP12COS2-A-HD	HD Cassette, 12F MPO-LC/APC, SM, Green-Shuttered
FTLC-MP12COM4-HD	HD Cassette, 12F MPO-LC, OM4, Aqua-Shuttered

## Ribbon Breakout Kit



### ORDERING INFORMATION

Part Number	Description
BOR-BR012LC37-V	Breakout kit, 12F Ribbon, OM3, LC, 3M
BOR-BR012LC38-V	Breakout kit, 12F Ribbon, OM4, LC, 3M
BOR-BR012LC3D-V	Breakout kit, 12F Ribbon, SM, LC, 3M
BOR-BR012LCA3D-V	Breakout kit, 12F Ribbon, SM, LC/APC, 3M
BOR-BR012SC37-V	Breakout kit, 12F Ribbon, OM3, SC, 3M
BOR-BR012SC38-V	Breakout kit, 12F Ribbon, OM4, SC, 3M
BOR-BR012SC3D-V	Breakout kit, 12F Ribbon, SM, SC, 3M
BOR-BR012SCA3D-V	Breakout kit, 12F Ribbon, SM, SC/APC, 3M

## Freeform Ribbon® Seperation Tool Kit



### DESCRIPTION

Sumitomo Electric Lightwave's Ribbon Separation Tool Kit provides an easy method of separating bundles of ribbons in ultra-high count cables into easily managed groups.

The Separator provides an easy method of separating bundles of ribbons for the installation of socks or tubing to organize the fibers from ultra-high fiber count cables.

### FEATURES

- Used for any ribbon cable especially those with 864 fibers to 3,456 fibers.
- Used for standard ribbons, pliable Freeform Ribbon® or even loose individual fibers.

The individual pins can be inserted into the base and held in place by pressing them into the appropriate hole. The slots created by the insertion of the pins are numbered for easy identification. The base comes with four rubber feet to prevent sliding when used on a work surface.

### BENEFITS

- The ability to distribute and organize ribbons into manageable groups for installation of socking or tubes

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### ORDERING NUMBER

Part Number	Description
FRSJ-01	Ribbon Separation Tool Kit with Carrying Case

### SPECIFICATIONS

Property	Dimensions
Bag Dimensions	13.5" L x 6.5" W x 0.5"
Base Dimensions	12" L x 4" W x 0.5"
Pin Dimensions	3" Long

## Universal Central Tube Slitter



### DESCRIPTION

Developed specifically for technicians working with central tube ribbon cables, the UCTS (Universal Central Tube Slitter) tool opens central tubes easily and safely with one pull! Once the tube is opened, rotating the jaws and spinning around the tube enables a precise and clean ring-cut to remove the excess tube, leaving the ribbon fibers undamaged.

With just a turn of the dial, the blades can be adjusted to work on all central tube sizes between 4.75mm - 18.5mm. The UCTS makes MID-SPAN tube access a snap.

### ORDERING NUMBER

Part Number	Description
UCTS-001	Universal Central Tube Slitting Tool
UCTS-001-BLADE	Universal Central Tube Slitting Tool Replacement Blades

<b>FIBER SPECIFICATIONS</b>		
<b>Property</b>	<b>Sumitomo Electric Lightwave PureAccess G.657.A1</b>	<b>Sumitomo Electric Lightwave PureBand-Plus G.657.D and G.657.A1</b>
<b>Type</b>	Single Mode	Single Mode
<b>Refractive Index Profile</b>	Matched Clad	Matched Clad
<b>Manufacturing Process</b>	VAD	VAD
<b>Coating Material</b>	UV Curable Acrylate	UV Curable Acrylate
<b>DIMENSIONAL</b>		
<b>Cladding Diameter</b>	125 +/- 0.5µm	125.0 ± 0.5 µm
<b>Cladding Non-Circularity</b>	≤ 0.5 %	< 0.5 %
<b>Core to Cladding Concentricity</b>	≤ 0.4 µm	< 0.4 µm
<b>Coating Diameter</b>	245 ± 10 µm	250 ± 15 µm
<b>Cladding to Coating Offset</b>	< 12.0 µm	< 12.0 µm
<b>Fiber Curl</b>	≥ 4.0 m radius	> 4.0 m radius
<b>TRANSMISSION</b>		
<b>Typical Un-Cabled Attenuation (1310/1550/1625 nm)</b>	≤ 0.35 / 0.21 / 0.22 dB/km	< 0.34 / 0.20 / 0.22 dB/km
<b>Attenuation Point Discontinuities</b>	≤ 0.05 dB	< 0.05 dB
<b>Attenuation at Water Peak</b>	≤ 0.33 dB/km	< 0.32 dB/km
<b>Attenuation with Bending (1310 nm)</b>	100 wraps 25 mm ≤ 0.03dB dB	100 wraps 25 mm: ≤ 0.05 dB
<b>Attenuation with Bending (1550 nm)</b>	1 wrap 10.0mm: ≤ 0.75 dB	1 wrap 16 mm: ≤ 0.5 dB 100 wraps 25 mm: ≤ 0.05 dB
<b>Attenuation with Bending (1625 nm)</b>	1 wrap 10.0 mm: ≤ 1.5 dB	100 wraps 30 mm: ≤ 0.05 dB
<b>Cabled Cutoff Wavelength</b>	≤ 1260 nm	< 1260 nm
<b>Mode Field Diameter</b>	8.6 ± 0.4 µm @ 1310nm	8.9 ± 0.4 µm @ 1310nm 10.2 ± 0.3µm @ 1550nm
<b>Index of Refraction</b>	1310nm 1.466 1550nm 1.467	1310nm 1.466 1550nm 1.467 1625nm 1.470
<b>Zero Dispersion Wavelength</b>	1300 - 1324 nm	1300 - 1324 nm
<b>Zero Dispersion Slope</b>	≤ 0.092ps/(nm <sup>2</sup> · km)	< 0.092ps/(nm <sup>2</sup> · km)
<b>Polarization Mode Dispersion (un-cabled)</b>	≤ 0.2 ps/ √ km	< 0.2 ps/ √ km
<b>Polarization Mode Dispersion (Link design value)</b>	≤ 0.08 ps/ √ km	< 0.08 ps/ √ km
<b>Dispersion (1550nm)</b>	≤ 18.0 ps/(nm · km)	< 18.0 ps/(nm · km)
<b>MECHANICAL</b>		
<b>Proof Test</b>	≥ 156 kpsi (1.07 GPa)	> 120 kpsi (0.7GPa)
<b>ENVIRONMENTAL (AS FIBER)</b>		
<b>Temperature (-60 to 85°C)</b>	≤ 0.05 dB/km @ 1310/1550/1625 nm	< 0.05 dB/km @ 1310/1550/1625 nm
<b>Temp-Humidity (-10 to 85C / up to 98% RH)</b>	≤ 0.05 dB/km @ 1310/1550/1625 nm	< 0.05 dB/km @ 1310/1550/1625 nm
<b>Heat Aging (85°C)</b>	≤ 0.05 dB/km @ 1310/1550/1625 nm	< 0.05 dB/km @ 1310/1550/1625 nm
<b>Water Immersion</b>	≤ 0.05 dB/km @ 1310/1550 nm, 23C	≤ 0.05dB at +23C water immersion

## OFA-01 Fiber Arrangement Tool



### DESCRIPTION

Sumitomo Electric Lightwave's compact OFA-01 quickly and effortlessly arranges single fibers into ribbons for mass fiber splicing, all without the use of adhesives, drastically reducing ribbon preparation time by eliminating adhesive curing time. The OFA-01 fiber arrangement tool offers the versatility of utilizing 250µm or 200µm fibers and is compatible with Sumitomo Electric Lightwave's elite Ribbon Fiber Fusion Splicers.

### FEATURES

- Organizes Individual Fibers into Ribbons
- Finished Ribbon Can Be Stripped, Cleaved, and Spliced, similar to a Manufactured Ribbon
- No Adhesive Required
- Used for both 250µm and 200µm fibers

### SPECIFICATIONS

<b>Applicable Fibers</b>	Material	Silica Glass
	Coating Diameter	200µm, 250µm
	Fiber Count	Up to 12 Fibers
<b>Dimensions</b>		90(W) mm x 40(D) mm x 25(H) mm
<b>Weight</b>		140g

### ORDERING INFORMATION

Part Number	Description
OFA-01	Fiber Arrangement Tool

## Single-Mode Blown Cable


**BC72SX**

**BC144SX**

### APPLICATIONS

Designed for use in an optical fiber cabling infrastructure for FutureFLEX Air-Blown Cable applications. With a small OD, these aerodynamically designed, lightweight blown cables enable longer blowing distances with the excellent friction properties of their outer sheath.

### FEATURES

- UV linked fibers are individually color coded per TIA standards
- Water tight aramid yarns
- Waterproof structure
- Central FRP strength member
- All dielectric design

For more information on this cable, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

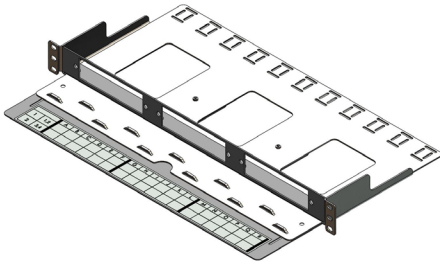
### SPECIFICATIONS

Property	BC24FOSX	BC48SX	BC72SX	BC96SX	BC144SX
Operation Temperature Range	-22°F to +140°F	-22°F to +140°F	-22°F to +140°F	-22°F to +140°F	-22°F to +140°F
Maximum Pulling Force (lb/ft)	90	157	157	225	337
Maximum Operating Pulling Force (lb/ft)	23	56	56	56	23
Maximum Bending Radius without Tension (in)	2.4	2.8	2.8	4.7	5.9
Maximum Bending Radius Under Tension	4.0	4.1	4.1	6.7	7.9

### PHYSICAL CHARACTERISTICS

Part Number	Description	Outside Diameter (mm)	Weight (kg/km)	Min./Max. Length (km)
<b>BC24FOSX</b>	Six micro bundles with four 250µm Single-mode fibers each, central FRP strength member, water-tight aramid yarns, and a light green water-resistant outer sheath	4.2	9.0	2/6
<b>BC48SX</b>	Six micro bundles with eight 250µm Single-mode fibers each, central FRP strength member, water-tight aramid yarns, and a light green water-resistant outer sheath	5.4	26.0	2/6
<b>BC72SX</b>	Six micro bundles with twelve 250µm Single-mode fibers each, central FRP strength member, water-tight aramid yarns, and a light green water-resistant outer sheath	5.4	26.0	2/6
<b>BC96SX</b>	Eight micro bundles with twelve 250µm Single-mode fibers each, central FRP strength member, water-tight aramid yarns, and a light green water-resistant outer sheath	6.1	36.0	2/6
<b>BC144SX</b>	Twelve micro bundles with twelve 250µm Single-mode fibers each, central FRP strength member, water-tight aramid yarns, and a light green water-resistant outer sheath	7.9	52.0	2/6

## 1RU LGX Compact Panel



### DESCRIPTION

Sumitomo Electric Lightwave's new 1RU LGX Compact Panel is designed for applications with limited space and requiring hardware with an efficient and small scale footprint. The 1RU LGX Compact Panel houses up to 3 LGX adapter panels or cassettes such as the popular FOX splice cassette. The design has built in cable management routing and securing features including a lacing bar in the rear and bridge lances in the front. Port identification is easy with a slide out label tray accessible under the front ledge.

### FEATURES

- Compact Design (Only 10.1" Front to Back) and only 8.11" from Faceplate to Back
- Slide-Out Label Tray
- Built in Cable Management Routing and Securing
- Compatible with standard 19" rack

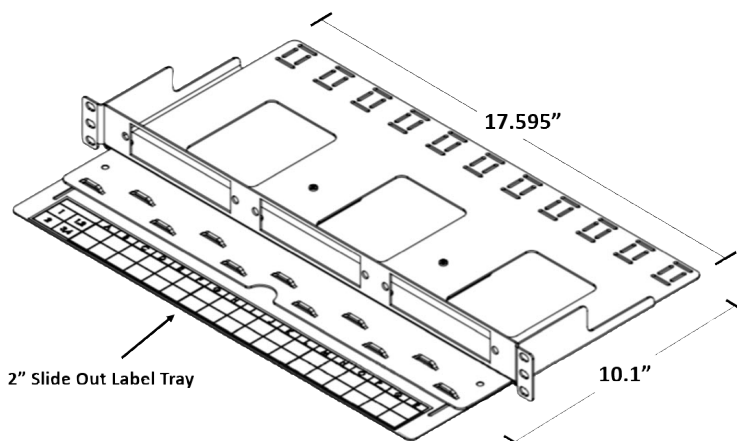
For more information on this panel, or other related products, visit:  
[www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

### PHYSICAL CHARACTERISTICS

Part Number	UOM	Description
<b>FT01L03-LSA</b>	ea	1RU LGX Compact Panel w/ Lacing Bar

### ITEM CONTENTS

Product	Quantity
<b>1RU LGX Compact Panel</b>	1 ea
<b>Port ID Label</b>	1 ea
<b>Velcro Straps, 1/2" x 7" (qty 12)</b>	12 ea
<b>Rack Mounting Screws</b>	4 ea





## JR-6+ Heated Jacket Remover



### DESCRIPTION

This lightweight and compact, yet rugged, jacket remover also features 4 temperature settings for maximum performance control. Designed for user friendliness, the JR-6+ includes a console panel located on top of the remover for ease of operation, bright LED lighting for easier viewing of remover settings, and power save and auto power off functions. The JR-6+ can be powered by the fusion splicer's 12V DC output, the AC/DC adapter included, or the internal rechargeable battery.

The remover features an ergonomic design for improved maneuverability, thereby eliminating hand fatigue. The required stripping force has been reduced 30% compared to other conventional stripper tools — making the JR-6+ the industry's most advanced, rugged, and user-friendly optical fiber jacket remover.

### FEATURES

- Easy Fiber Coating Removal
- Lightweight, Shock Resistant, Portable, Rugged Design
- Fast Temperature Stabilization to Reduce Warm-Up Time
- 2-12 Fiber Ribbons or Single Fiber Stripping
- 3-Way Power Supply (Battery, AC/DC, and Fusion Splicers)

### SPECIFICATIONS

Property	Specifications
Temperature Settings	4 levels (Min. 80 to Max. 140 °C)
Power Saving Function	Normal mode/ Power saving mode
Number of Removal Cycles with Battery	Approx. 200 (12-fiber, Approx. 100 °C)
Dimensions and Weight	45 (W) x 138 (D) x 38 (H) mm, Approx. 235g (including battery)
Power Supply	BU-6 battery 2V DC supplied from Sumitomo Fusion Splicer with DC power cord 100 to 240V AC via AC adapter, ADC-12205

### APPLICABLE FIBER

Property	Specifications
Coating Material	UV Cured Resin
Coating Thickness	Single fiber : 200 to 400µm 2 to 12- fiber ribbon: 200 to 400µm
Cladding Diameter	125µm
Removal Length	Max. 30mm

### ORDERING INFORMATION

Part Number	Description
JR-6+	Heated Jacket Remover, AC/DC Adapter, and Battery
JR6p-BL	Blade, Replacement for JR-6+



For ordering assistance, please contact Inside Sales at **800-358-7378** or visit [www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)