Fiber Optical Protection Sleeve

Description:

Shrinkable sleeve is applied to the optical fiber closure to fix and protect the optical fiber when splicing. The sleeve can be divided into two types (single and mass) according to the function. The single type is used for the single-fiber, and the mass type is used for the ribbon fiber. It is different in the reinforcement between two types. The single one realizes the reinforcement by the stainless steel needles, the later one via the ceramic reinforcement member to realize the function. Mass means there are several cores for the fiber. So the mass sleeve includes 4cores, 6cores, 8cores, and 12cores (for types).

◆ Mass type sleeve materials

Hot melt adhesive
Ceramic reinforcement member
Heat shrinkable tube

◆ Single type sleeve materials

Hot melt adhesive
Heat shrinkable polyolefin
Stainless steel needle

Order Information:

Item	Parameter
Shrinking Temperature（℃）	90 ~ 130
Radial Shrinking Rate (%)	>50
Axial Shrinking Rate (%)	<10
Low Temperature Property	No crackle at -55℃ lasting 4 hours
Normal Operation Temperature（℃）	-55℃~ +135℃
Normal Operation Relative Humidity	≤95%
Spark-over Strength (kV/mm)	≥20
Tensile Strength (Mpa)	20
Loss at -40℃	0.03dB
Loss at +60℃ RH95%	0.01dB
Inner Lining: Ethy Vinyl Acetate (EVA):	melts at 65℃

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Single Fiber Splice Protection Sleeve:

Outer tube	**Outer diameter**	**3.9±0.1**
	Thickness	0.2±0.05
	Length	60.0±1
	Material	Flexible Polyolefin
Inner tube	Inner Diameter	1.5±0.1
	length	56.0±
	Thickness	10.3±0.05
	Material	EVA
Steel bar	Diameter	1.5±0.05
	Length	55.0±0.25
	Material	302 stainless steel rob
Splicing finished diameter	3.4*3.0±0.1	
Operating temperature	-55℃ to+135℃	
Material Used Conform to: MIL-1-23053/5 Class 1 and 3		

Ribbon fiber Splice Protection Sleeve:

		4~6 fibers Single Ceramic bar	4~6 fibers Double Ceramic bar	8~12 fibers Single Ceramic bar	8~12 fibers Double Ceramic bar
Outer Tube	Outer diameter	4.4±0.1	4.8±0.1	5.8±0.1	6.5±0.1
	Thickness	0.2±0.05	0.2±0.05	0.25±0.05	0.25±0.05
	Length	42.0±1	42.0±1	42.0±1	42.0±1
	Material	Flexible Polyolefin	Flexible Polyolefin	Flexible Polyolefin	Flexible Polyolefin
Inner Tube	Inner diameter	2.6*1.6±0.1	2.6*1.6±0.1	3.5*2.2±0.1	3.5*2.2±0.1
	Thickness	0.3±0.1	0.3±0.1	0.5±0.1	0.5±0.1
	Length	40.0±1	40.0±1	40.0±1	40.0±1
	Material	EVA	EVA	EVA	WVA
Ceramic bar	Diameter	3.0±0.2	3.0±0.2	4.0±0.2	4.0±0.2
	Length	40.0±0.5	40.0±0.5	40.0±0.5	40.0±0.5
	Amount	1	2	1	2
	Material	95 Ceramic	95 Ceramic	95 Ceramic	95 Ceramic

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Micro Fiber Splice Protective Sleeve 20mm & 25mm

20 mm

25 mm

Order Information:

Description	Material	Color
Outer Tubing	Polyolefin	Clear
Inner Tubing	EVA	Clear
Reinforce Steel Rod	SUS	N/A
Shrinking Temperature（℃）	90 ~ 130	
Radial Shrinking Rate (%)	>50	
Axial Shrinking Rate (%)	<10	
Low Temperature Property	No crackle at -55℃ lasting 4 hours	
Normal Operation Temperature（℃）	-55℃~ +135℃	
Normal Operature Relative Humidity	≤95%	
Spark-over Strength (kV/mm)	≥20	
Tensile Strength (Mpa)	20	
Loss at -40℃	0.03dB	
Loss at +60℃ RH95%	0.01dB	
Inner Lining: Ethy Vinyl Acetate (EVA)	melts at 65℃	

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