

SCP Single mode Fiber

Product Code: SCPR15



Basic Parameters of Fiber Optic

Specification			
Product Code		SCPR15	
Transmission Parameters of Fiber			
Attenuation Coefficient		Unit	
1310nm		dB/km	≤ 0.35
1385nm H2 aged		dB/km	≤ 0.31
1550nm		dB/km	≤ 0.21
1625nm		dB/km	≤ 0.23
Zero Dispersion Wavelength(λ_0)		nm	1300~1324
Zero Dispersion Slope		ps/(nm ² ·km)	≤ 0.092
Fiber Cut-off wavelength		nm	< 1330
Cable Cut-off wavelength		nm	≤ 1260
Backscatter Parameters of Fiber			
Attenuation Directional Uniformity		dB/km	≤ 0.03
Attenuation Uniformity		dB	≤ 0.05
Group Index of Refraction			
1310nm			1.467
1550nm			1.468
Geometrical Parameters of Fiber			
Mode Field Diameter (MFD) at Wavelength			
1310nm		μm	8.6±0.4
1550nm		μm	9.7±0.5
Glass Cladding Diameter		μm	115±1.0
P-coat Diameter		μm	125±0.7
P-coat Non-Circularity		%	≤ 1.0
Core/P-coat Concentricity Error		μm	≤ 0.5
Acrylate Coating Diameter		μm	245±10
Coating Concentricity Error		μm	≤ 6.0
Fiber Curl		m	≥ 2.0

Mechanical Characteristics

Specification		
Product Code		SCPR15
	Unit	
Proof Test (Screen level)	Kpsi (Gpa)	100 (0.69)
Fatigue Resistance Parameter @23°C, 41%RH	nd	>30
Bend Induced Attenuation		
1 turn around a mandrel of 10mm radius @1550nm/1625nm	dB	≦ 0.3 / 1.0
10 turn around a mandrel of 15mm radius @1550nm/1625nm	dB	≦ 0.03 / 0.2
Coating Strip Force		
Average	g	≧ 105
Peak	g	≧ 140
Length (Typical)	km	1.1~25.2

Environmental Characteristics

	Unit	
Temperature Cycling Test @1310nm, 1550nm -60°C to +85°C	dB/km	≦ 0.05
Damp Heat Dependence Test @1310nm, 1550nm +85°C, 85%RH for 30days	dB/km	≦ 0.05
Water soak Dependence Test @1310nm, 1550nm +20°C for 30days	dB/km	≦ 0.05

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