

Messrs.

GENERAL SPECIFICATION

FOR

SM Fiber with high temperature resistant coating

SR15-9/125-ACL

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1. Summary

This specification covers SM Fiber with high temperature resistant coating.

2. Product name

SR15-9/125-ACL

3. Specification

Table 1. Properties

Item	Properties
Fiber	SM fiber
Operating wavelength	1310 nm, 1550 nm
Core material	Germanium doped silica
Cladding material	Pure silica
Coating material	Heat resistant acrylate
Proof test level	$\geq 2\%$ (Applying proof test to entire continuous length of fiber)
Maximum operating temperature 1)	150 °C
Minimum unit length / spool 2)	1000 m

1). Maximum operating temperature is not guaranteed in unlimited period.

2). The price depends on the required unit length/ spool. So in case of no preference, we would like to provide the random unit length longer than Min unit length.

Table 2. Items listed on the test report

Item	Unit	Specification
Core concentricity error	μm	≤ 0.8
Cladding diameter	μm	125 ± 2
Cladding non-circularity	%	≤ 2
Coating diameter	μm	245 ± 10
Mode field diameter	μm	8.6 ± 0.7 at 1310 nm
		9.8 ± 0.7 at 1550 nm
Cutoff wavelength (Fiber cutoff)	nm	≤ 1290
Attenuation	dB/km	≤ 0.4 at 1310 nm
		≤ 0.3 at 1550 nm
Length	m	≥ 1000 and random length

The values described in Test Report are listed in Table 2. These values are measured in sampling or in entire continuous length of fiber. The values in test report are measured at room temperature

4. Warranty

The warranty period is one year after shipment in the state of fiber being winded in the original shipping reel.

If you have any doubts about the contents of this specification and any matter not stated in this specification, we will consult with you separately.

5. Recommended storage condition

Temperature : +10 ~ +35 °C

Relative humidity : ≤ 85 % RH

Sample of test report
English version

TEST RESULT

Date: *****

Product name : SR15-9/125-ACL
Mfg. No. : *****
Specification : B-19DA006
Length : ***** m

Measurement results

Item	Unit	Spec	TNo.1	TNo.2	TNo.3	TNo.4
Cladding diameter	μm	125±2	125.3	125.3	125.3	125.3
Core concentricity error	μm	≤0.8	0.32	0.32	0.32	0.32
Cladding non-circularity	%	≤2	0.15	0.15	0.15	0.15
Coating diameter	μm	245±10	247	247	247	247
Mode field diameter @ 1310nm	μm	8.6±0.7	8.5	8.5	8.5	8.5
Mode field diameter @ 1550nm	μm	9.8±0.7	9.5	9.5	9.5	9.5
Cut-off wavelength	nm	≤1290	1250	1250	1250	1250
Attenuation @ 1310nm	dB/km	≤0.4	0.34	0.34	0.34	0.34
Attenuation @ 1550nm	dB/km	≤0.3	0.20	0.20	0.20	0.20
Length	m	≥1,000	2,000	2,000	2,000	2,000

Fujikura Ltd.

Japanese version

試験成績書

品名: SR15-9/125-ACL
製造番号: *****
仕様書: B-19DA006
納入数量: ***** m

年月日: *****

項目	単位	規格	TNo.1	TNo.2
クラッド径	μm	125±2	125.3	125.3
コア偏心量	μm	≤0.8	0.32	0.32
クラッド非円率	%	≤2	0.2	0.2
コーティング径	μm	245±10	247	247
モードフィールド径 @1310nm	μm	8.6±0.7	8.5	8.5
モードフィールド径 @1550nm	μm	9.8±0.7	9.5	9.5
カットオフ波長	nm	≤1290	1250	1250
伝送損失 @1310nm	dB/km	≤0.4	0.34	0.34
伝送損失 @1550nm	dB/km	≤0.3	0.20	0.20
条長	m	≥1000	2900	2900

<i>Revisions</i>					
<i>Rev</i>	<i>Page</i>	<i>Description</i>	<i>Approval</i>	<i>Writer</i>	<i>Date</i>
-	-	Initial Release	M. Miyachi	Y. Endo	May. 17, 2019

Referring document : B-18DA004, B-10D9053.