

Messrs. Fujikura Fiber Optics Vietnam Ltd.

Material Specifications




Product Name 125um Polymer Clad TEC Fiber(XPC-373)

Model Name 4(0.9)/20(TEC)/125(0)//190(NA0.46)/240

Parts Number FN007938

Fujikura Ltd. / Fujikura Precision Ltd.

Fiber Laser Division.

Development Department		
Approved	Checked	Prepared
		

Revision History

Rev.	Clause	Revised Contents	Reasons	Date(y/m/d)	Prepared by
1	-	Original	-	2024/8/1	T. Mouri

1. Outline

This document describes the standard specifications of special fiber used in fiber lasers. The specifications may be changed in the future due to product improvement or design change.

2. Product

Table 2-1. Product Description

Parts Number	Product name	Model Name	Design Spec No.
FN007938	125um Polymer Clad TEC Fiber(XPC-373)	4(0.9)/20(TEC)/125(0)//190(NA0.46)/240	SPC2-10460

3. Specifications

Product specifications are shown in Table 3-1, 3-2 and 3-3.

Table 3-1.Geometrical & Mechanical Specifications

Item	Unit	Specification
Core Diameter	um	typ. 4
Cladding Diameter	um	125.0 +1.0/-1.0
Protective Coating Diameter	um	240 +15/-15
Core Offset	um	≤ 0.4
Non-circularity of fiber	%	≤ 7.0
Core to Cladding Material	-	Fused quartz
Coating Material	-	Acrylate
Proof Test Level	%	≥ 1.0

Table 3-2. Optical Specifications

Item	Unit	Specification
Operating Wavelength	nm	1060-1080
MFD @ 980nm	um	typ. 4.2
Cladding NA	-	typ. 0.46
Core Attenuation @ 1180nm	dB/km	< 10.0

Table 3-3. Environmental Specifications

Item	Unit	Specification
Storage Temperature	°C	-5 to 60
Storage humidity	g/m ³	<29

4. Packing Specifications

Packing forms and specifications are shown in Table 4-1.

Table 4-1. Packing Specification

Item	Unit	Specification
Bobbin Type	-	ABS-10L