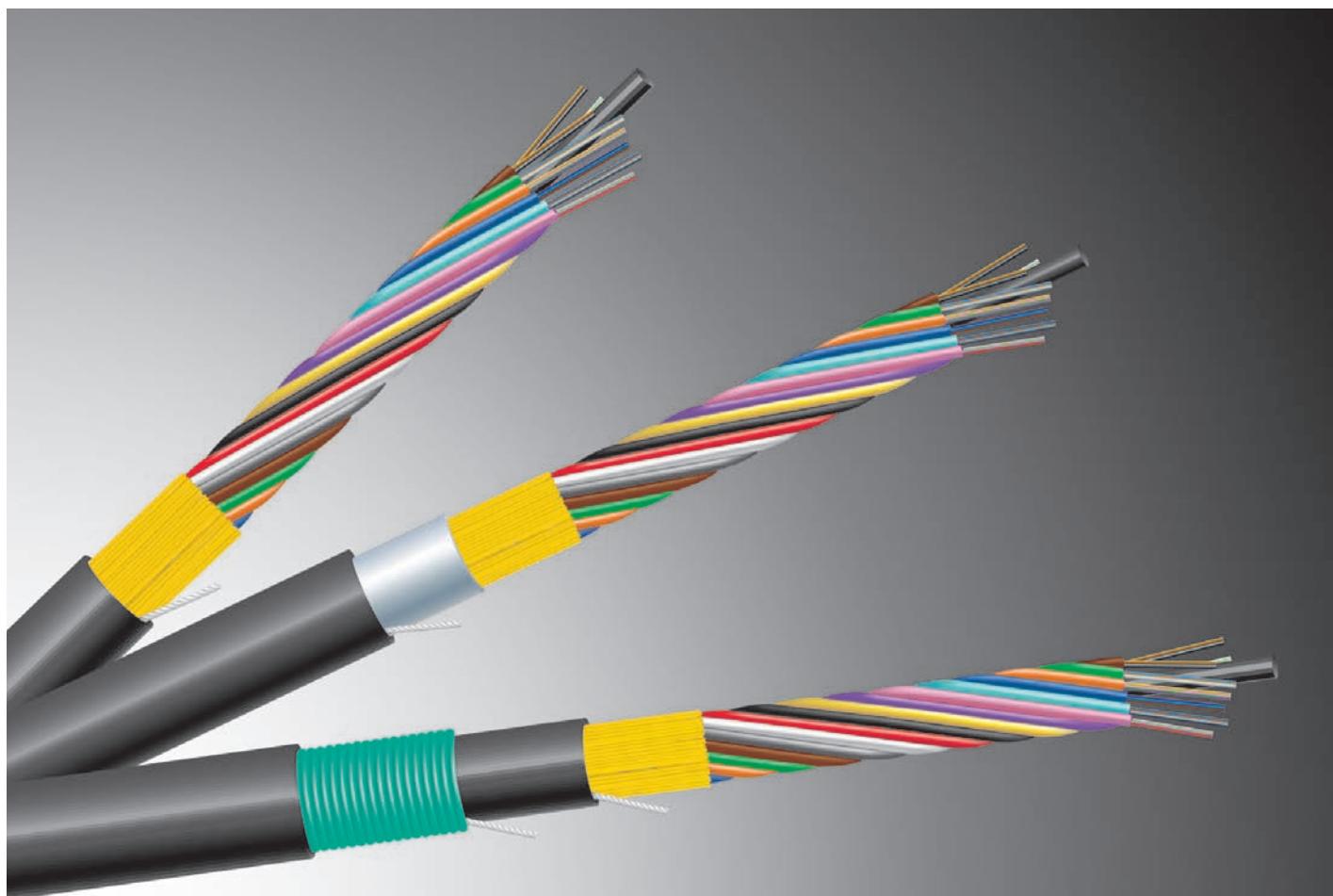


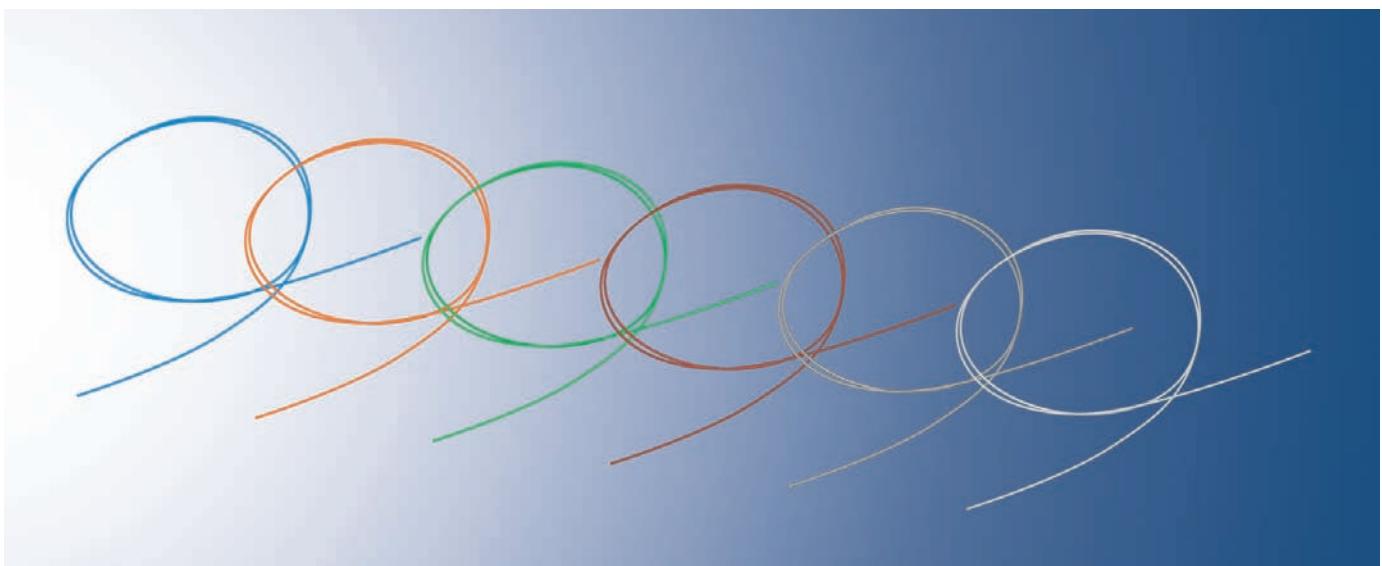
FITEL

Optical Fiber Loose Tube Cable (Fundamental Structures)



FURUKAWA ELECTRIC

Optical Fiber SM332



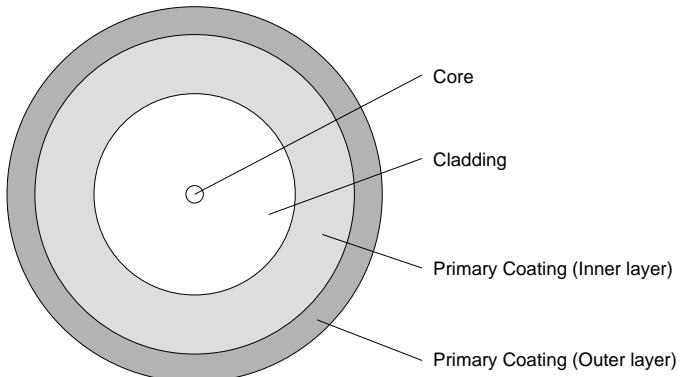
Outline

FURUKAWA optical fiber SM332 is a matched cladding design single mode fiber made of synthesized silica with a coating of 245 μm mechanically strippable acrylate.

SM332 is designed to minimize the dispersion in the 1310nm wavelength region as well as 1550nm region.

FURUKAWA optical fiber SM332 is manufactured by Vapor phase Axial Deposition (VAD), which can provide the excellent optical, mechanical and geometrical characteristics.

Cross Sectional View



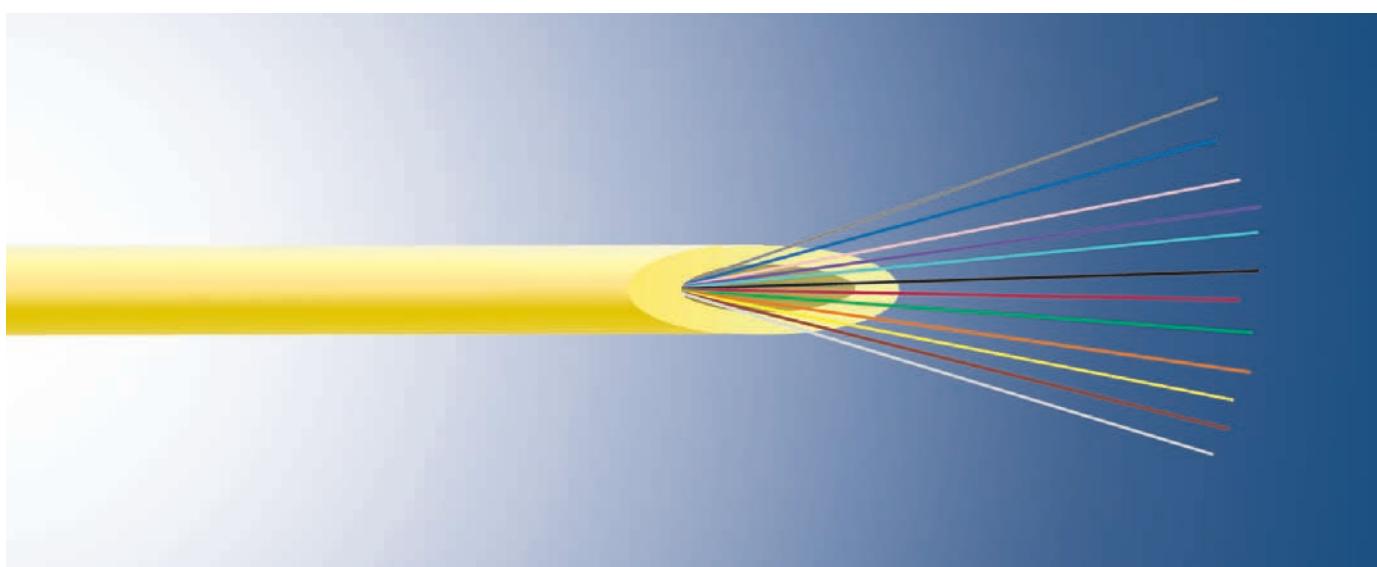
Specification (Compliance with ITU-T G.652)

Item		Description
Core	Material	Germanium Doped Silica
	MFD ^{*1}	9.2 \pm 0.5 μm @ 1310nm 10.4 \pm 1.0 μm @ 1550nm
Cladding	Material	Silica
	Diameter	125 \pm 1.0 μm
Primary Coating	Inner Layer	UV Curable Acrylate
	Outer Layer	UV Curable Acrylate
Coating Diameter ^{*2}		245 \pm 10 μm
Core Concentricity Error		\leq 0.8 μm
Cladding Non-Circularity		\leq 1.0%
Cable Cut-Off Wavelength		\leq 1260nm
Macrobend Loss		Radius: 37.5mm
		Number of Turns: 100
		\leq 0.10dB @ 1550nm
Proof Stress		0.69 GPa
Zero Dispersion Wavelength		1300~1324nm
Zero Dispersion Slope		\leq 0.093 ps/(nm \cdot km)
Chromatic Dispersion		\leq 3.5 ps/(nm \cdot km) @ 1288~1339nm
		\leq 18 ps/(nm \cdot km) @ 1550nm

*1 MFD: Mode Filed Diameter

*2 Coating Diameter: Uncolored Fiber

Buffer Tube



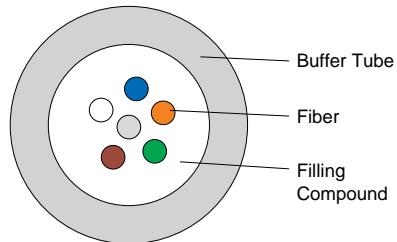
Outline

From 1 to 12 fibers are placed within color-coded buffer tubes, which are several times larger than fibers.

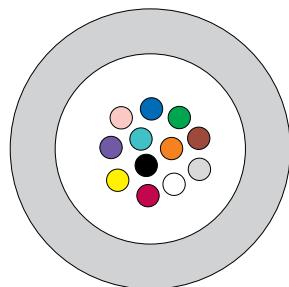
To prevent water intrusion, the buffer tubes are filled with compounds.

Cross Sectional View

Up to 6 Fibers



Up to 12 Fibers



Color Scheme (Identification)

Fiber / Buffer Tube

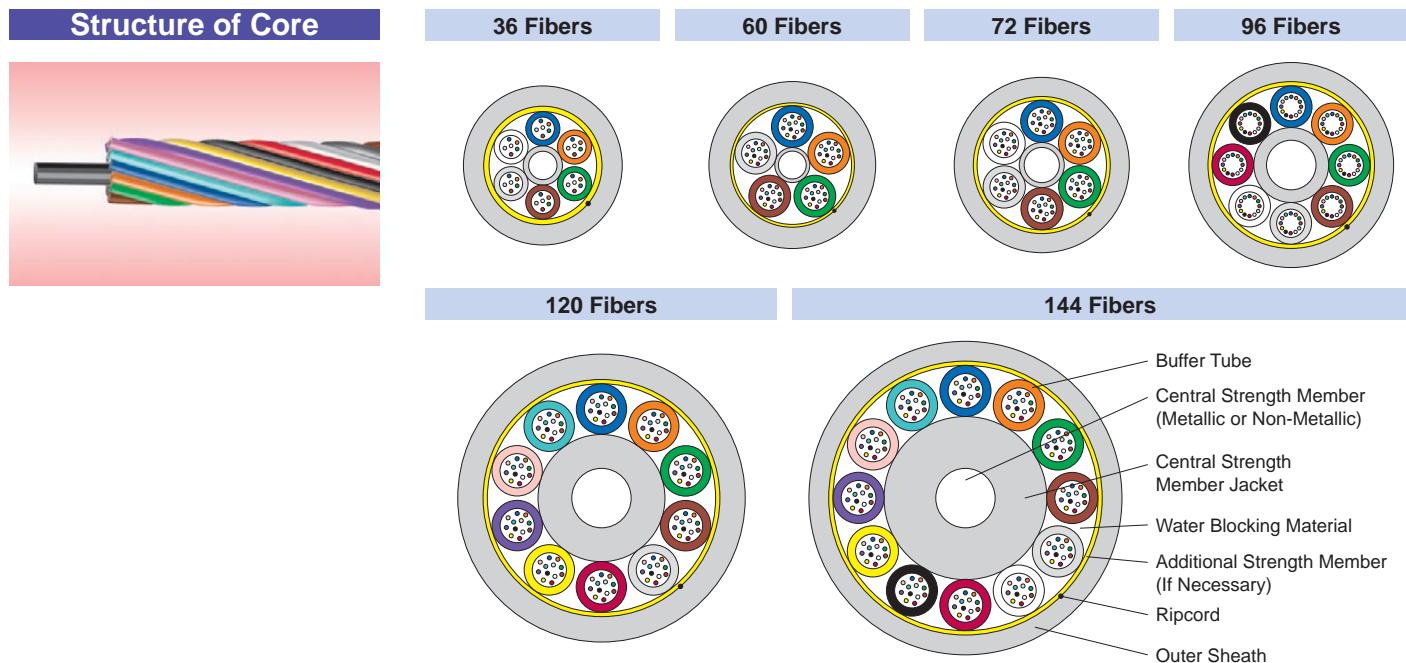
Fiber No. Buffer Tube No.	Color Code
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Rose
12	Aqua

Since the fibers which are accommodated inside of buffer tube moves freely, Therefore this cable called "Loose Tube"

Specification

Item		Description
Optical Fiber	Construction	As per Previous Page
	Number of Fibers per Tube	Up to 6 Fibers / Up to 12 Fibers
	Color Code	Refer to Table Listed on Above
Filling Compound	Material	Thixotropic Jelly Compound
Buffer Tube	Material	Polybutylene Terephthalate (PBT)
	Outer Diameter (Nominal)	2.5mm for up to 6 Fibers per Tube 3.0mm for up to 12 Fibers per Tube
	Color Code	Refer to Table Listed on Above

Fundamental Structure for Loose Tube



————— ISO 9001 Certified Manufacturer ———



FURUKAWA ELECTRIC CO., LTD.

Furukawa Electric reserves the right to improve, enhance and modify the features and specifications of this product without prior notification.

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