

# Optical Fiber Pigtail Specification

## ■Product Information

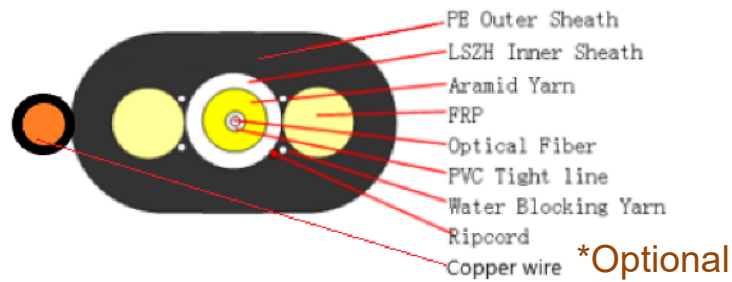
Product Name: SCAPC-Pigtail

Product Model: 4 to 12F 4 x 9.3mm-TONED Flat Cable Type

## ■Product Features

- Low insertion loss
- High return loss
- Excellent endface geometry parameter

## ■Optical Cable Spec.



Item		Spec.	Remark
Optical Fiber	Fiber type	G652. D	
	Color	Natural	
Tight Buffer	Material	PVC	
	Color	White	
	Diameter	0.9 ± 0.5mm	
Aramid Yarn		5*1000D	
Inner Sheath	Material	LSZH	
	Color	White	
	Thickness	0.5 ± 0.05mm	
	Diameter	3.0 ± 0.2mm	
Water Blocking Yarn		4*350D	
Ripcord		1*1000D	
FRP		φ 1.5mm	
Copper wire		Φ0.5mm	
Outer Sheath	Material	HDPE	
	Color	Black	
	Size	(4 ± 0.2) * (9 ± 0.2) mm	

## ■Optical Characteristics

Fiber Name	SMF-28e
Fiber Category	G. 652. D
Maximum Attenuation	0.36dB/km@1310nm、0.24dB/km@1550nm
Typical Attenuation	0.25dB/km@1310nm、0.16dB/km@1550nm

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## ■Mechanical Characteristics of Cable

Max. Tensile Strength, Short-Term	1350 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Weight	32.5 ±0.5kg/km
Outer Cable Minimum Bend-Radius Operation	80 mm (3.15 in)
Inner Cable Minimum Bend-Radius Operation	5 mm (0.2 in)
Min. Bend Radius Operation	80 mm (3.15 in)

## ■Optical cable Printing

Printed with white ink, the font is clear and easy to identify. The printing spacing is 1m, and the error is less than 2mm.

OPTIC FIBER CABLE GYFXBY \*\*F CORNING G652D TONE PE \*\*\*\*M YYYY

## ■Optical Pigtail Spec.

Project	Spec.	Standard
Operating wavelength	1260~1650nm	Follow GR326-CORE and IEC Standard
Insertion loss	≤0.3dB	
Return loss	≥60dB	
Repeatability	≤0.1dB	
Interchangeability	≤0.1dB	
Durability Test	500 times (ΔIL≤0.2dB)	
Storage temperature	-40~75°C	
Installation temperature	-30~70°C	
Working temperature	-40~75°C	

## ■Environmental Properties of Pigtail

Project	Test condition	Index	
High temperature	85°C, 96H	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB
Low temperature	-40°C, 96H	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB
Temperature Cycles	-40~+85°C, 500 Cycles	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB
Hot and humid	85°C, 85%RH, 96H	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB

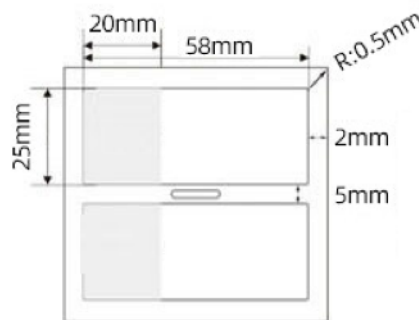
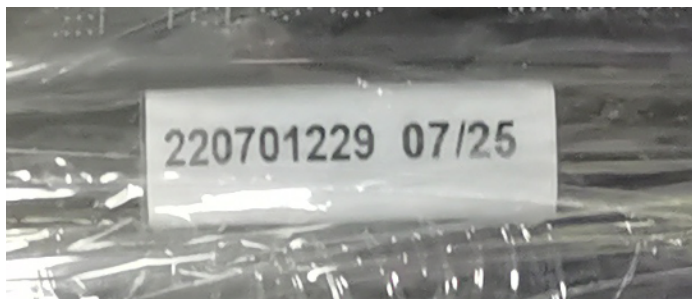
## ■Mechanical Properties of Pigtail

Project	Test condition	Index	
Impact	1.5m, 8 times free falls	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB
Vibration	10 to 50HZ, 45 times /min, amplitude 0.75mm, 120 min	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB
Torsion	Distance the connector 20 to 28cm, load 1.35kg, ±2.5turns, 9 cycles	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB
Tensile	Distance the connector 20 to 28cm, 0° angle load 4.5 kg, 60s	Δ IL ≤ 0.2dB	Δ RL ≤ 3dB

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## ■Optical Cable Label

PE material label is used to achieve the effect of waterproof, oil proof and not easy to fall off. The product serial number is printed on the label to facilitate product traceability.



## ■Packaging

1:

1. Optical cables shall be arranged neatly and evenly to ensure smooth pay-off. And the

②Dimensions of roller packing:



Note:

The length of 450M and rollers, and other ones rollers.



above is made of wooden rollers, and other ones are made of plastic

2: The connector is arranged on the outermost side, and the optical cable is wound with PE film, then stick the product label. The label position is shown in the figure below:



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Step 3: The products are packed in outer cartons, and three labels are pasted on the side of the carton, as follows

