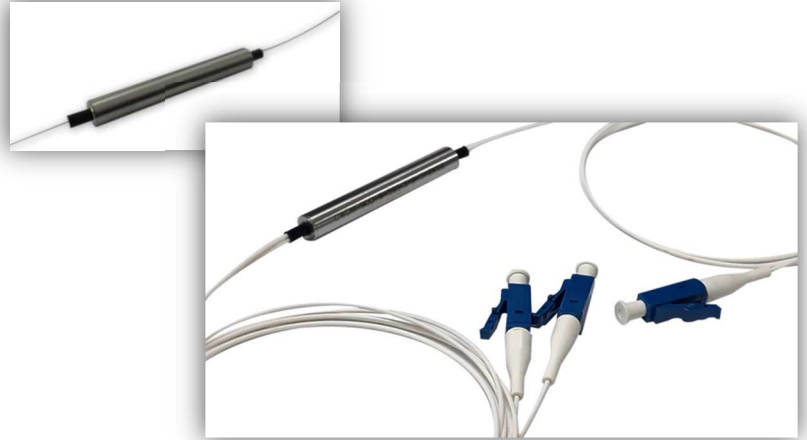


## FEATURES:

- ITU Recommended Wavelength Grid
- Telcordia GR-1221 Compliant
- Low Polarization Dependent Loss
- Low Insertion Loss
- Flat and Wide Passband
- Epoxy- Free Optical Path
- Exceptionally Stable and Reliable
- RoHS Compliant (Lead Free)



## APPLICATIONS:

Fiber Distribution    Signal Monitoring    Power Splitting

## DESCRIPTION:

Go!Foton's Single Mode TFF Tap Coupler is a compact, Thin-Film- Filter based, and low signal loss component designed for splitting signal wavelength. This device is ideal for CATV systems and telecommunications, and provide low insertion loss with high reliability. Reliability is guaranteed to fully meet Telcordia GR-1221 requirements.

## SPECIFICATION:

The products supplied to this specification shall meet or exceed all the requirements specified herein.

### A. OPTICAL AND ELECTRICAL CHARACTERISTICS

PARAMETER	UNIT	SYMBOL	PORT	SPECIFICATION				
Operating Wavelength Range <sup>1</sup>	nm	WL	All	1260~1625				
Transmission Tap Ratio <sup>1</sup>	%	R	All	90%, 80%, 70%, 60%, 50%				
				<b>90%</b>	<b>80%</b>	<b>70%</b>	<b>60%</b>	<b>50%</b>
Pass Channel Insertion Loss	dB	IL <sub>P</sub>	P1→P3	≤1.2	≤1.7	≤2.3	≤3.1	≤4.2
Reflection Channel Insertion Loss	dB	IL <sub>R</sub>	P1→P2	≤12.7	≤8.5	≤6.6	≤5.2	≤4.2
Polarization Dependent Loss	dB	PDL	All	≤0.20				
Return Loss	dB	RL	All	≥50				
Directivity	dB	Dir	P2↔P3	≥50				
Maximum Optical Power Handling	mW	P	All	500				
Operating Temperature	°C	T <sub>OP</sub>	All	-40~+85				
Operating Humidity Range (No Condensation)	%RH	RH	All	+5~+85				
Storage Temperature Range	°C	T <sub>ST</sub>	All	-40~+85				

All specifications are with connectors.

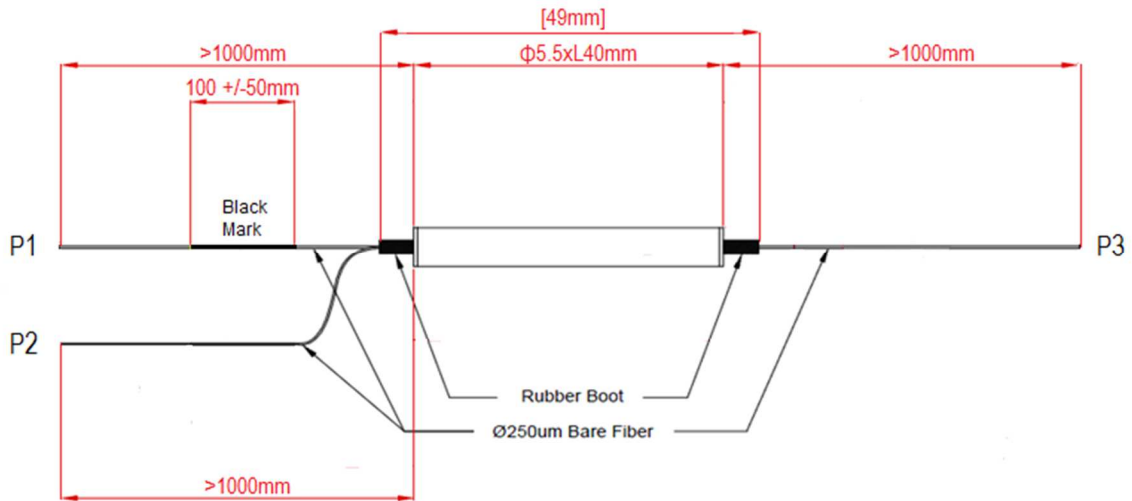
1 -- Depends on the requirement. See Ordering information.

## B. MECHANICAL SPECIFICATIONS

PARAMETER	UNIT	SYMBOL	PORT	SPECIFICATION	
Fiber Type <sup>2</sup>	-	FT	All	ITU G657A2/B2 and G652D Compliant Fiber	
Fiber Length <sup>3</sup>	mm	FL	All	<b>No Connector</b>	<b>With Connector</b>
				>1000	1000 +/-100
Fiber Protection <sup>4</sup>	-	FP	All	Ø250um Bare Fiber	
Port Identification	-	PI	P1	Black Mark (100 +/-50mm)	
			P2	None	
			P3	None	
Package Size (Cylindrical Metal Housing) <sup>5</sup>	mm	PS	-	Ø5.5xL40[49]	

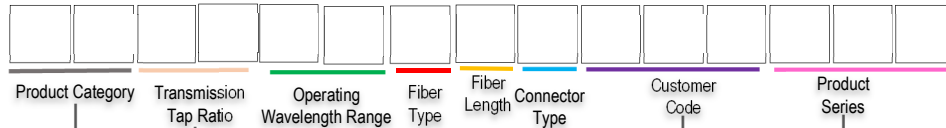
2/3/4/5 -- See ordering information. Connector termination is available upon request.

## C. PACKAGE DIMENSIONS



Note: Sample Illustration only.

## ORDERING INFORMATION:



PRODUCT CATEGORY	
Code	Code Description
TC	TAPC

TRANSMISSION TAP RATIO	
Code	Code Description
90	TAP 90%
70	TAP 70%
50	TAP 50%
30	TAP 30%
10	TAP 10%
XX	Special or as specified by Customer

OPERATING WAVELENGTH RANGE	
Code	Code Description
S1	Single Window 1310 ± 40nm
S2	Single Window 1550 ± 40nm
DW	Dual Window 1310 ± 40nm, 1550 ± 40nm
FW	Fullband 1260~1625nm

FIBER TYPE	
Code	Code Description
1	250um Bare Fiber (Single Mode)
2	900um Loose Tube White (with Single Mode 250um Bare)
3	900um Tight Buffer (Single Mode)
D	1.2mm Cable (Single Mode)
X	Special or as specified by Customer

PRODUCT SERIES	
Code	Code Description
yyy	3-digit Product Series

CUSTOMER CODE	
Code	Code Description
xxx	3-letter Customer Code

CONNECTOR TYPE	
Code	Code Description
0	No Connector
1	FC/UPC
2	FC/APC
3	SC/UPC
4	SC/APC
5	LC/UPC
6	MU/PC
7	LC/APC
X	Special or as specified by Customer

FIBER LENGTH	
Code	Code Description
1	1 meter
2	2 meters
3	3 meters
X	Special or as specified by Customer

### Notes:

- <sup>1</sup> Standard Fiber Type is ITU-T G657.A2/B2 and G652.D Compliant Single Mode Fiber..
- <sup>1</sup> Standard Package Size is OD5.5mm x L40[49]mm for Fiber Type 1~3. For 1.2mm cable, Package Size is OD3.2mm x L65[75]mm.
- <sup>2</sup> Fiber length tolerance is +/-0.1 meter for products with connector termination.
- <sup>3</sup> All ports are with connector of the same type.
- <sup>4</sup> Only applicable for products which are not covered by the Standard Specification.

**EXAMPLE:** TC50FW110  
TAP Coupler, 50% , Full band, 250um Bare Fiber, 1 meter length, no connector on all ports.

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