



# 1x2 SM FBT

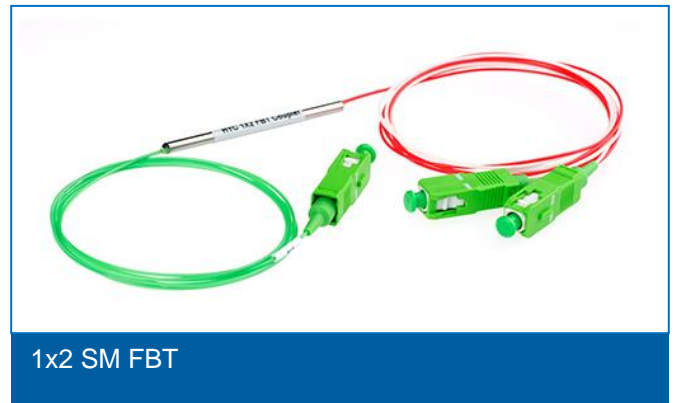
1X2 FBT coupler is designed for power splitting and tapping in telecommunication equipment

## Description

1X2 FBT coupler is designed for power splitting and tapping in telecommunication equipment, CATV network, and test equipment. According to the different operating bandwidths, we have wide band couplers, dual window couplers, three-window couplers, and so on. Customers can specify your required coupling ratios.

## Feature

- Low Insertion Loss, Low PDL
- High Return loss
- Compact Size
- High stability and reliability
- Standard: RoHS Compliant
- Optional Split Ratio 20/80, 40/60...(50/50 as default)



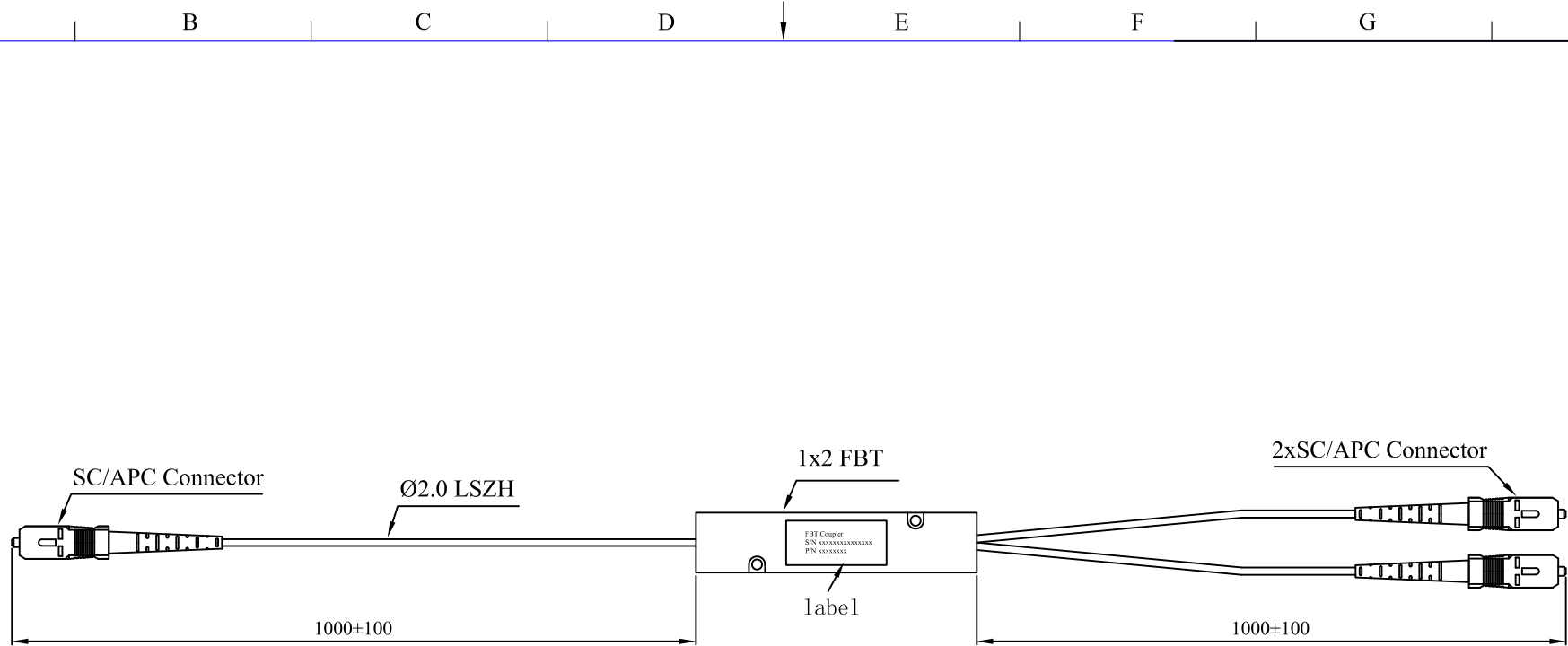
1x2 SM FBT

## Application

- CATV system
- Telecommunication systems
- Support both central and distributed
- Digital and Hybrid System
- Fiber Sensors
- Monitoring system



## Specification:

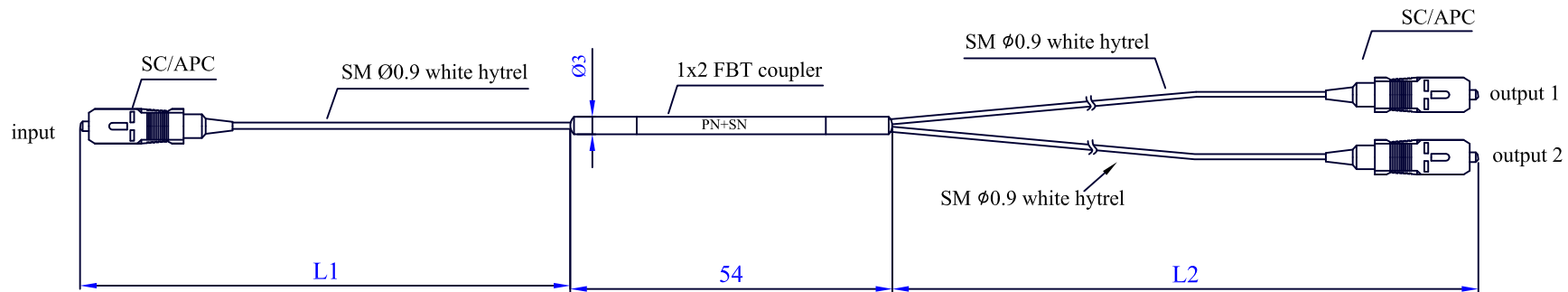
Parameters		Wind band coupler (WBC)		Dual-window coupler (DWC)		Three-window coupler (TWC)	
Operating wavelength (nm)		1310 or 1550		1310 and 1550		1310, 1490 and 1550	
Operating bandwidth		1310±40 or 1550±40		1310/1550±40		1310/1550±40 and 1490±10	
Grade		P	A	P	A	P	A
IL (dB)	50/50	≤3.4	≤3.6	≤3.6	≤3.8	≤3.6	≤3.8
	40/60	≤4.4/2.6	≤4.7/2.8	≤4.7/2.7	≤4.9/2.9	≤4.7/2.7	≤4.9/2.9
	30/70	≤5.7/1.9	≤6.0/2.0	≤6.0/1.9	≤6.3/2.1	≤6.0/1.9	≤6.3/2.1
	20/80	≤7.6/1.25	≤8.0/1.3	≤7.9/1.3	≤8.4/1.4	≤7.9/1.3	≤8.4/1.4
	10/90	≤11.0/0.65	≤11.5/0.8	≤9.2-11/0.75	≤8.8-11.4/0.8	≤9.2-11/0.75	≤8.8-11.4/0.8



**Technical requirements(with connectors):**

Type 1xN		1x2					
Coupling ratio		50:50	60:40	70:30	80:20	90:10	99:1
Operating bandwidth (nm)		1310±40/1550±40					
Insertion loss (dB)	Max	3.7/3.7	2.9/4.8	2.2/6.0	1.5/7.9	1.0/11.3	0.5/21.8
PDL (dB)	Max	0.2	0.2	0.2	0.2	0.2	0.2
Return loss (dB)	Min	50	50	50	50	50	50
Directivity (dB)	Min	55	55	55	55	55	55
Operating temperature (°C)		-40~+85					
Storage temperature (°C)							
Fiber type		G657A1/G657A2/G652D					
Dimension (mm)		90x20x10					
Connector type		SC/LC/FC					

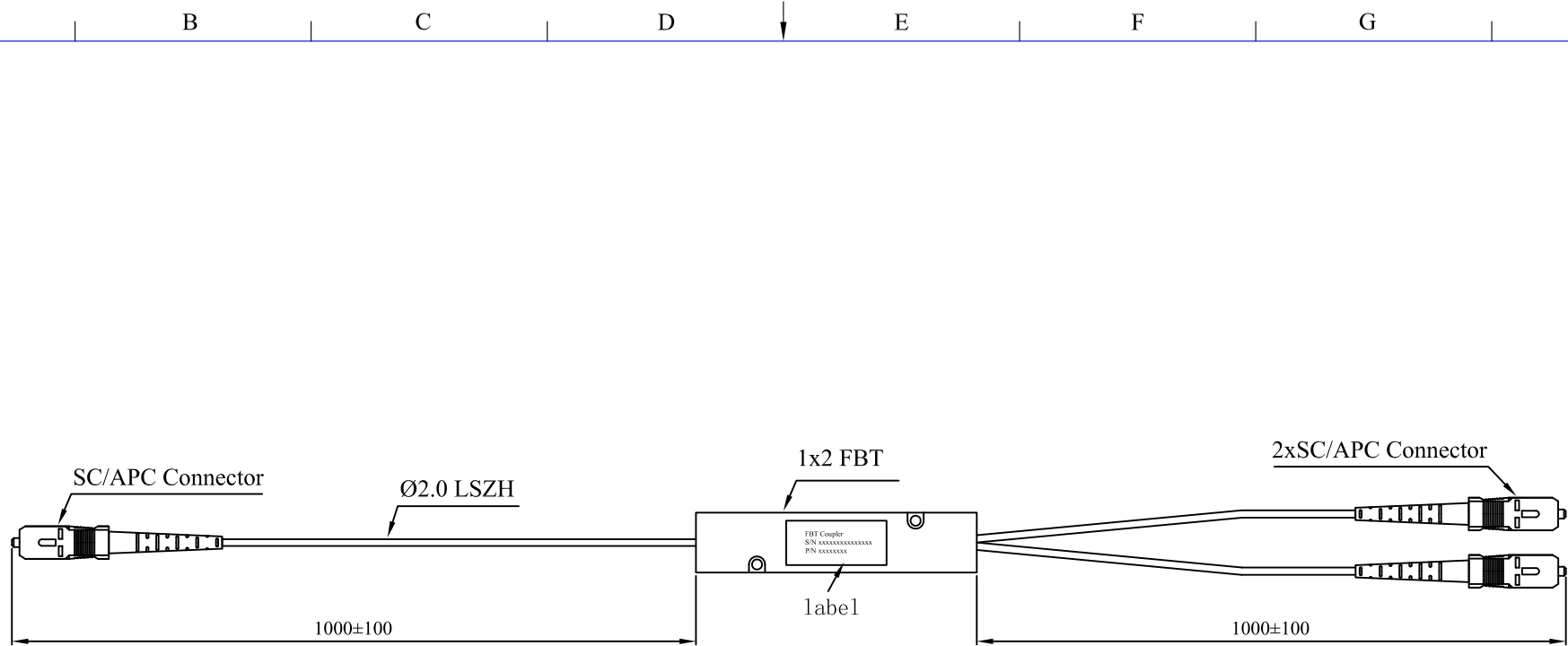
Title	1X2 FBT Splitter Ø2.0 Yellow input L1m output L2m		
Drawing	Steven	Item No	
Check	Henry	Drawing No:	
Approval	Williams		 職和光电科技有限公司
Date	2018	Page: 1-1	XH Opto Tech Co.,LTD



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Dimension (mm)		Ø3x54/60					
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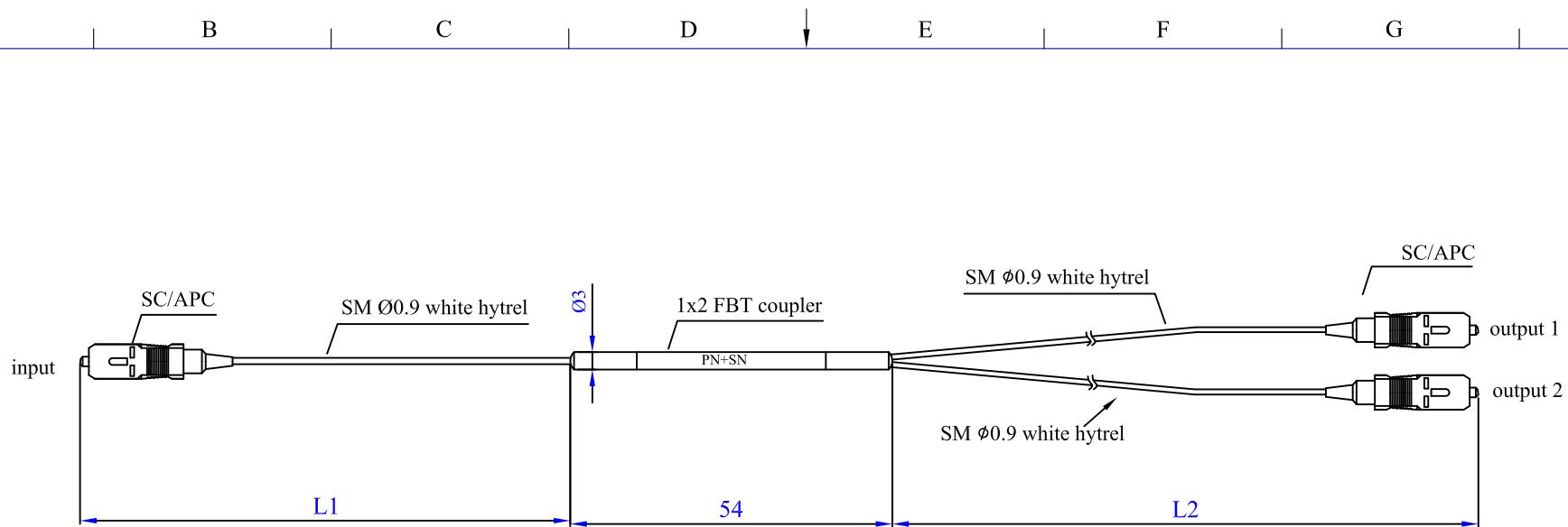
<b>Title</b>	FBT 1x2(50:50) with connectors input L1m output L2m		
<b>Drawing</b>	Steven	Item No	
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