

# Photonics-USA

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# FBT Coupler

## Three Window Wideband Coupler

### ➔ Specifications (50/50)

Parameter	Premium	A Grade
Operating Wavelength Range	1260-1360 nm, 1480-1550 nm, 1535-1570 nm	
Insertion Loss	3.6 dB	3.8 dB
Uniformity	0.7 dB	1.0 dB
Return Loss	55 dB (1x2)    65 dB (2x2)	
PDL	0.15 dB	0.2 dB
TDL	0.2 dB (-10°C ~ +75°C)	0.35 dB (-40°C ~ +85°C)
Operating & Storage Temperature	- 40° C ~ + 85° C	
Package Dimensions	Light Duty ( B )	3.0mm ( ) x 55.0mm (L)
	Medium Duty ( L )	3.0mm ( ) x 60.0mm (L)
	Heavy Duty (K, R)	100.0mm x 12.0mm x 8.0mm

### ➔ Tap Coupler

Coupling Ratio	Premium	A Grade
40/60	4.7/2.7 dB	5.0/2.5 dB
30/70	6.0/1.9 dB	6.4/2.2 dB
20/80	7.9/1.2 dB	8.5/1.4 dB
10/90	11.3/0.6 dB	12.7/0.8 dB
5/95	15.0/0.4 dB	16.0/0.5 dB
1/99	23.5/0.3 dB	25/0.4 dB

Note1: All values specified are without connectors.  
Note2: Higher performance specifications are available upon request.  
Note3: Fiber Type – Corning SMF-28e.

### ➔ Tree Couplers

*Port #	Max IL		Uniformity	
	Premium	A Grade	Premium	A Grade
1 x 4	7.2 dB	7.6 dB	1.3 dB	1.8 dB
1 x 8	11.0 dB	11.3 dB	2.0 dB	2.4 dB
1 x 16	14.4 dB	15.2 dB	2.7 dB	3.2 dB
1 x 32	18.1 dB	19.0 dB	3.4 dB	4.2 dB

\*Other port numbers upon request.

### ➔ Ordering Information

T	W	C	-	-	-	-	-	-	-	-	-	-	-
Port Number			Grade		Coupling Ratio		Fiber Length		Pigtail Style		Connector		
12: 1 x 2			P: Premium		xy % : xy %	1: 1 meter		(=Package style)		0: None	7: LC/UPC		
14: 1 x 4			A: A Grade			2: 2 meter		B: bare fiber		1: FC/PC	8: LC/SPC		
18: 1 x 8						S: Special		L: 900 μm loose tube		2: FC/APC	9: Special		
16: 1 x 16								K: 2mm cable		3: SC/PC	A: FC/UPC		
32: 1 x 32								R: 3mm cable		4: SC/APC	B: SC/UPC		
										5: FC/SPC	C: ST		
										6: SC/SPC			