Rev. 1.0 - October 2014

Fused Biconical Taper Coupler/Splitter

Description:

Fibernet offers SM and MM fiber couplers, manufactured using industry all standards
These couplers offer low insertion loss and excellent environmental and mechanical stability
They are stocked with all kind of key connectors
In addition, Fibernet offers couplers that assembled inside a metal or plastic box

Features:

- Low Insertion Loss
- Low PDL
- Bidirectional
- Environmentally Stabled
- RoHS Compliance

Applications:

- Telecommunications
- Data Transmission
- CATV
- FTTx
- Test Equipment

Specifications and Dimensions:

Item	Parameters		
	Coupler Tube		Coupler Box
	Single-mode	Multi-mode	
Wavelength (nm)	1310,1490,1550, 1625	850, 1300	850,1310,1490,1550,1625
Bandwidth (nm)	±40		
Operating Temp. (°C)	-20°C ~ +85		
Storage Temp. (°C)	-40°C ~ +85		
Fiber Type	G652,G657A	OM1,OM2,OM3, OM4	G652,G657A,OM1,OM2,OM3,OM4
Pigtail Type	250μm Bare Fiber 900μm Loose Fiber 3mm Cable	250μm Bare Fiber 900μm Loose Fiber 2mm/3mm Cable	None
Ratio (%)	1/99, 5/95, 10/90, 20/80, 30/70, 40/60, 50/50 Other Ratio are available upon customer request		
Insertion Loss (dB)	3.1~25 (Depending on the Structure)		
Return Loss (dB)	≥55		
PDL (dB)	≤0.3		
Packaging	Stainless Steel Tube – ϕ3x54 or ϕ3.5x72		Plastic Box: 100x80x10/120x80x18/ 140x115x18 Aluminum Box: 90x72x8

Coupling Ratio [%]	Premium Single-mode	Premium Multi-mode
50/50	3.4/3.4	3.9/3.9
40/60	4.4/2.5	4.9/3.0
30/70	5.6/1.8	6.2/2.3
20/80	7.4/1.1	8.0/1.6
10/90	10.8/0.6	11.3/1.1
5/95	14.0/0.4	14.9/0.9
1/99	21.0/0.13	22.1/0.7

Ordering Information:

Fiber Type	
5	50/125
6	62.5/125
7	G657A
8	G652
9	9/125
O	OM3
G	OM4

Wavelength [nm]	
1	850
2	1310
3	1310/1550
4	1550
6	850/1300
7	1310/1490
8	1550/1625
X	Other

Port Configuration	
1	1x2
2	2x2
3	1x3
4	1x4
7	1x6
8	1x8
X	Other

Coupling Ratio	
01	1/99
05	5/95
10	10/90
20	20/80
30	30/70
40	40/60
50	50/50
NA	Tree Coupler(Box)
XX	Other

Packaging [mm] (Only for Box)	
B	100x80x10 - Plastic
C	120x80x18 - Plastic
D	140x115x18 - Plastic
E	90x72x8 - aluminum
X	Other

FC - P

Pigtail Type (Not in Box)	
1	250µm Bare Fiber
2	900µm Loose Fiber
3	3mm
4	2mm (SM)

Pigtail Length (Not in Box)	
1	1m
2	2m
5	0.5m
X	Other

Connector Type-IN	
0	None
1	FC/UPC
2	SC/UPC
3	FC/APC
4	SC/APC
5	ST/UPC
6	LC/UPC
7	LC/APC
X	Other

Connector Type-OUT	
0	None
1	FC/UPC
2	SC/UPC
3	FC/APC
4	SC/APC
5	ST/UPC
6	LC/UPC
7	LC/APC
X	Other

Packaging [mm] Only for Tube)	
A	Φ3x54 for 0.25 mm Fiber
B	Φ3.5x70 for 0.9 mm Fiber
C	Φ3x50 for 0.25 mm Fiber
X	Other
U	485x43.5x230 1U 19" Rack
W	485x87x230 2U 19" Rack
X	Other

Example 1: FC–P541503166A

Coupler- 50/125,1550nm, 1x2, 50/50, 3mm, 1m, LC/UPC, Φ3x54mm

Example 2: FC–P54150B66

Coupler Box- 50/125, 1550nm, 1x2, 50/50, 100x80x10-Plastic, LC/UPC