

Flyin Singlemode Tree/Star Coupler

Flyin Optronics' Singlemode Tree/Star Coupler 1X4, 1X8, 1X16, 1X32 port ratios are available(or custom specified). They offer very low insertion loss, low polarization dependence, well controlled uniformity as well as excellent environmental stability. Standard tree coupler have been extensive used to split and mix optical signals in CATV, LANs and all other kinds of optical communication systems. All Flyin Optronics' products are Telcordia qualification tested.

Features

- Low Excess Loss
- Uniform Power Splitting
- Rugged Package
- Excellent Environmental & Mechanical Stability

Applications

- Long-haul Telecommunications
- Digital, Hybrid and AM-Video Systems
- CATV Systems
- High Speed LocalArea Networks
- Fiber Sensors
- FTTX



Performance Specifications

Singlemode Standard Tree/Star Couplers				
Configuration Type	1X4	1X8	1X16	1X32
Maximum insertion loss (dB)	7.4	10.8	15	18.5
Uniformity (Max.) (dB)	0.7	1.0	1.2	1.4
Poralization Dependant Loss (Max.) (dB)	0.25	0.40	0.50	0.70
Operating Wavelength (nm)	1310, 1550, or custom wavelength			
Dimensions (mm)	1,2	1,3	2	2

Singlemode Window Wideband Tree/Star Couplers				
Configuration Type	1X4	1X8	1X16	1X32
Maximum insertion loss (dB)	7.4	10.8	14.5	18.5
Uniformity (Max.) (dB)	0.8	1.2	1.6	2.0
Poralization Dependant Loss (Max.) (dB)	0.25	0.40	0.50	0.70
Operating Wavelength (nm)	1310± 40, 1550± 40, or custom wavelength			
Dimensions (mm)	1,2	1,3	2	2

Singlemode Dual Wideband Tree/Star Couplers				
Configuration Type	1X4	1X8	1X16	1X32
Maximum insertion loss (dB)	7.6 (7.4)*	11.5(10.8)*	15.5(14.5)*	19.0(18.5)*
Uniformity (Max.) (dB)	1.6 (1.4)*	2.5 (2.1)*	3.4 (2.8)*	4.1 (3.5)*

Poralization Dependant Loss (Max.) (dB)	0.25	0.40	0.50	0.70
Operating Wavelength (nm)	1310/1550±40, (*1310/1550±20), or custom wavelength			
Dimensions (mm)	1,2	1,3	2	2
Directivity (dB)	≥50 dB			
Operating Temperature (°C)	-2 - +85			
Storage Temperature (°C)	-40 - +85			
Fiber Type	Corning singlemode SMF-28			
Fiber Pigtail Length (m)	1m or custom on request			
Port Configuration	1x4 to 32x32			

*The Spec is for 1xN Coupler only.

Package Dimensions & Pigtail Style

Multimode Dimensions:	
Package 1: 10mm x 80mm x 100mm	
Package 2: 18mm x 80mm x 120mm	
Package 3: 18mm x 115mm x 141mm	
Pigtail Style:	
Package 1,2,3:	2mm,3mm cable or 900um loose tube

Ordering Information

X	X	XX	XX	XXXX	X	X	X	XX
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Type	Type	Wavelength	Coupling Ratio or Attenuation(dB)	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
S	P	13=1310nm	AV=Tree	0104=1x4	1=1 type	0=Bare Fiber	0=SMF-28	0=None
W	A	15=1550nm	Coupler	0116=1x16	2=2 type	1=900μm		1=FC/APC
		35=1310/1550nm		1616=16x16	3=3 type	loose tube		2=FC/PC
				3232=32x32		2=2mm Cable		3=SC/APC
						3=3mm Cable		4=SC/PC
								5=ST
								6=LC

*Type: S----Singlemode Standard Coupler

W----Singlemode Widband Coupler