

## 1x3 and 3x3 Singlemode Single Fusion Tree/Star Couplers



### Key Features

- Low Excess Loss
- Single Fusion Design
- Uniform Power Splitting
- Compact Size

### Applications

- Telecommunication Systems
- Digital, Hybrid and AM-Video System
- CATV Systems
- Fiber Sensors

### Performance Specifications

Parameter	Specifications			
Type	Single Fusion			
Operating Wavelength	830nm, 850nm, 980nm, 1310nm, 1480nm, 1550nm, 1585nm, or Custom wavelength			
Operating Bandwidth	"S" type: $\pm 10\text{nm}$ , "W" type: $\pm 40\text{nm}$			
Port Configuration	1x3		3x3	
Grade	P Grade	A Grade	P Grade	A Grade
Excess Loss (Max.)	0.15dB	0.30dB	0.20dB	0.40dB
Insertion loss (Max.)	5.60dB	5.80dB	6.0dB	6.40dB
Uniformity (Max.)	0.80dB	1.0dB	1.0dB	1.20dB
PDL (Max.)	0.12dB	0.20dB	0.15dB	0.20dB
Directivity	50dB			
Operating Temperature	-20 to +75°C (-40 to +85°C Available upon request)			
Fiber Type	Corning singlemode SMF-28, DS fiber or Flexcore			
Fiber Pigtail Length	1m			
Package Dimensions (mm)	PackageA, B, C			

Note:

All values referenced are without connector and are for 1310, 1480, 1550, and 1585 only. For 830, 850 and 980nm, please add 0.3 dB IL.

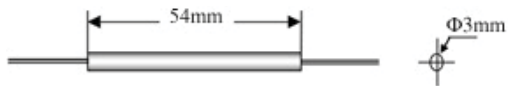
**Ordering Information**

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Type	Grade	Wavelength	Coupling Ratio or Attenuation (dB)	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
↓	S = Special P = P Grade A = A Grade	85 = 850nm 98 = 980nm 13 = 1310nm 14 = 1480nm 15 = 1550nm 16 = 1580nm	AV = Tree Coupler	0103 = 1x3 0103 = 1x3	A = Package A B = Package B C = Package C	1 = 250um Bear Fiber 2 = 900um Jacket 3 = 3mm Cable	0 = SMF-28 1 = HI 1060 2 = HI 780 D = DS Fiber S = Special	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC X = Special
S = Singlemode Standard Coupler W = Singlemode Wideband Couple								

## Package Dimensions & Pigtail Style

### Pigtail Dimensions:

Package A: 3mm x 54mm Stainless Steel Tube



Package B: 3mm x 60mm Stainless Steel Tube



Package C: 8.5mm x 14mm x 98mm Case



### Pigtail Style:

Package A: 250um Bare Fiber

Package B: 250um Bare Fiber or 900um Loose Tube

Package C: 3mm Cable or 900um Loose Tube