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# 1x3 PM Fiber Fused Coupler

## Product Description

The FC Series PM fiber optic coupler is based on Agiltron's fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



## Features

- Wavelength Independent
- Ultra Low Excess Loss
- Low Polarization Sensitivity
- Highly Stable & Reliable
- Ultra Low Cost

## Performance Specifications

PM Coupler	Parameter				Unit
	Grade P		Grade A		
Wavelength	433,589,633,780, 830,980,1064		1310,1480,1550,1950, 2000,2050,2100		nm
Bandwidth	±15				nm
Excess Loss	Grade P	Grade A	Grade P	Grade A	dB
	≤0.8	≤1.0	≤0.5	≤0.6	
Split Ratio Tolerance	± 7	± 8	± 5	± 5	%
Polarization E/R	≥17	≥15	≥18	≥16	dB
Splitting Ratio	Grade P		Grade A		
	Through	Coupling	Through	Coupling	
5:90:5	± 2.5	± 1.5	± 3.0	± 1.8	dB
10:80:10	± 2.8	± 1.6	± 3.2	± 2.0	dB
15:70:15	± 3.0	± 1.8	± 3.5	± 2.4	dB
20:60:20	± 3.3	± 2.0	± 3.7	± 2.5	dB
25:50:25	± 3.5	± 2.4	± 4.0	± 3.0	dB
30:40:30	± 4.0	± 3.0	± 5.0	± 4.0	dB
33:33:33	± 6.0	± 6.0	± 8.0	± 8.0	
35:30:35	± 4.0	± 5.0	± 5.0	± 6.0	
40:20:40	± 3.0	± 6.0	± 6.0	± 7.0	dB
Optical Power Handling	< 3				W
Operating Temperature	-40~85				°C
Storage Temperature	-40~85				°C
Package Dimension *	250um: (D)3.0x(L)54				mm
	900um: (D)4.0x(L)70				
	2/3mm Cable: (L)90x(W)16x(H)9				

\* Other package options available on request

## Applications

- Telecommunications
- CATV
- Local Access Network (LAN)
- Fiberoptic Instrumentation

# PM Fiber Optic Fused Coupler

## Ordering Information

FCP-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Wavelength	Grade	Package	Coupling Ratio	Port	Fiber Type	Connector Type	
	433nm=04 589nm=05 633nm=06 780nm=07 830nm=08 980nm=09 1064nm=10 1310nm=13 1480nm=14 1550nm=15 1950nm=19 2000nm=20 2050nm=25 2100nm=21 Special=00	P=1 A=0	3x54=1 4x75=2 90x16x9=3 Special=0	05:90:05=1 10:80:10=2 15:70:15=3 20:60:20=4 25:50:25=5 30:40:30=6 33:33:33=7 35:30:35=8 40:20:40=9 Special=0	1x3=3	250μm=1 2mm =2 3mm =3 900um=4 Special= 0	Panda=1 Special=0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.