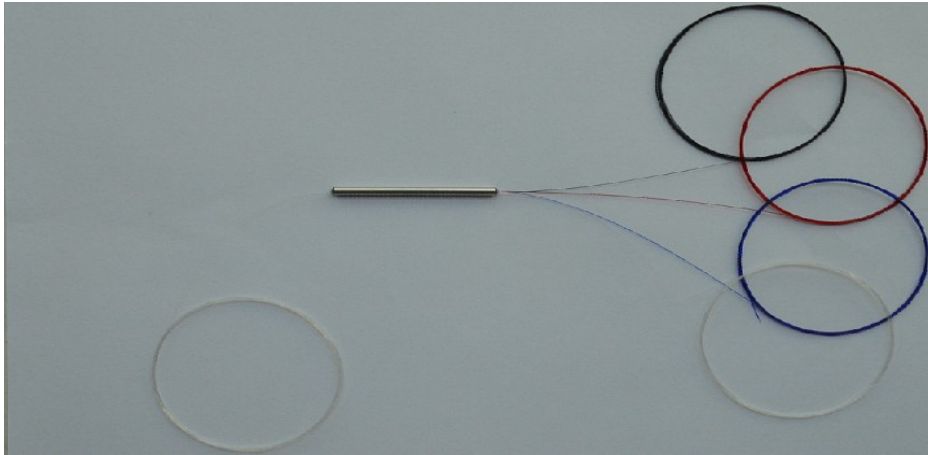


# DUAL WINDOW SINGLE MODE WIDEBAND FIBER COUPLER (1310NM AND 1510NM BAND)

## Product Description

The HiPhotonics fused dual window wideband fiber 1X4 couplers provide accurate optical signal coupling and splitting over wide bandwidth with high performance and high reliability. These couplers have excellent uniformity, low excess loss and very low polarization sensitivity and are available with various tap ratios, fiber types, and connector options. All devices are shown to be able to handle high optical power up to **2W** and are tested according to industry standard procedures. Reliability is guaranteed through stringent tests to fully meet Telcordia GR-1221 requirements



## Performance Specification

SDWFC Series	Specifications		Unit
Wavelength Range	1310±40 and 1550±40		nm
Fiber Type	Corning SMF-28		
Insertion Loss	Premium	Grade A	
	≤ 7.1	≤ 7.5	dB
Directivity(Min)	55		dB
Return Loss(Min)	55		dB
TDL (Max)	Signal Path:<0.20dB, Tap path:<0.25dB		dB
Maximum Power Handling	2000		mW
Operating Temperature Range	-20 ~ +75		℃
Storage Temperature Range	-40 ~ +85		℃
Package Dimensions	P1:250um bare fiber φ 3.0X 54		mm
	P2:900nm loose tube φ 4.0X 65		
Qualifications	Telcordia GR-1221		

## Features :

- Wavelength Independent
- Low Insertion Loss and PDL
- High Power Handling
- Guaranteed Reliability

## Applications :

- Signal monitoring in EDFA
- Network Monitoring
- CATV
- Local Area Networks
- Testing Instruments
- Laboratory R&D

Note:

(1) Values are referenced without connector loss.

(2) Temperature Sensitivity Coefficient~ 0.002°C at the range of -5 to 75°C

(3) Operating temperature range changes to -5 to 75°C in P2, P3 package and all package with connectors

(4) The mechanical tolerance should be  $\pm 0.2$ mm on all package dimensions unless otherwise custom specified

1. Insertion loss over operating wavelength range at ~23°C (excluding PDL and TDL).

2. Insertion loss change over the all input polarization states.

### Order Information SDWFC-①①-②-③-④-⑤-⑥-⑦

①① Operating Wavelength	② Port	③ Coupling Ratio	④ Grade	⑤ Packaging Dimension
35=1310/1550nm	3=1X3	A	P=P Grade	A=P1+250um bare fiber
S=Special	4=1X4		A=A Grade	B=P2+900um loose tube

#### ⑥ Fiber Length

A=0.5 Meter

B=1 Meter

C=1.5 Meter

D=2.0 Meter

S=Special

#### ⑦ Connector Type

0=None

1=FC/UPC

2=FC/APC

3=SC/UPC

4=SC/APC

5=LC

S=Special