

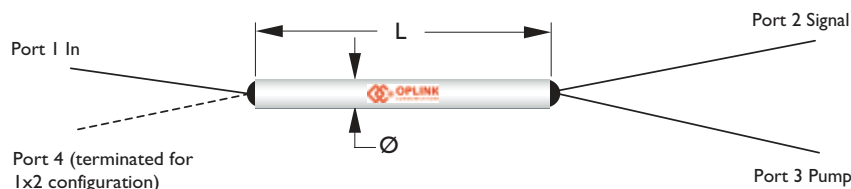
# ULTRA HI-REL UNDERSEA COMPONENT FAMILY SINGLE WINDOW SINGLE-MODE WIDEBAND FIBER COUPLER (1x2,2x2)

## UWFC Series

### Product Description

Oplink's single-window wideband couplers split or combine light with exceptional performance over a wide bandwidth. These couplers have very good uniformity, low excess loss and very low polarization sensitivity. All devices are supplied with all pertinent measurement data. Please contact our Oplink OEM design team for further information.

Oplink's Ultra Hi-Rel family of optical components are available for your undersea applications. Please contact us with your requirements.



### Performance Specification

UWFC Series		Premium	Grade A	Unit
Coupling Ratio		1/99 to 50/50		
Operating Wavelength		1270 ~ 1350 / 1510 ~ 1590 / 1600 ~ 1640		nm
Uniformity (50/50)		< 0.5	< 0.8	
Insertion Loss	Split Ratio : 50/50	< 3.4	< 3.7	dB
	Split Ratio : 3/97	< 16.2/0.35	< 17.0/0.45	
	Split Ratio : 2/98	< 19.0/0.32	< 19.5/0.35	
	Split Ratio : 1/99	19.0 ~ 21.0 / 0.1 ~ 0.2	19.0 ~ 21.5 / 0.25	
Temperature Dependent Loss		< 0.15	< 0.20	dB
Polarization Dependent Loss		< 0.10	< 0.13	dB
Temperature Sensitivity		< 0.002	< 0.002	dB/°C
Directivity		> 55		dB
Maximum Power Handling		< 500		mW
Operating Temperature		- 10 to + 70		°C
Storage Temperature		- 40 to + 85		°C
Package Dimensions **		P1: 250 µm bare fiber P2: 900 µm loose tube P3: 3 mm cable	(ø) 3.0 x (L) 54.0 (ø) 3.0 x (L) 60.0 (L)96 x (W)12 x (H)6.4	mm

Note:

\* Values are referenced without connector loss.

\*\* The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.

### Features

- ◆ Wavelength Independent
- ◆ Low Polarization Sensitivity
- ◆ High Directivity
- ◆ High Stable & Reliable

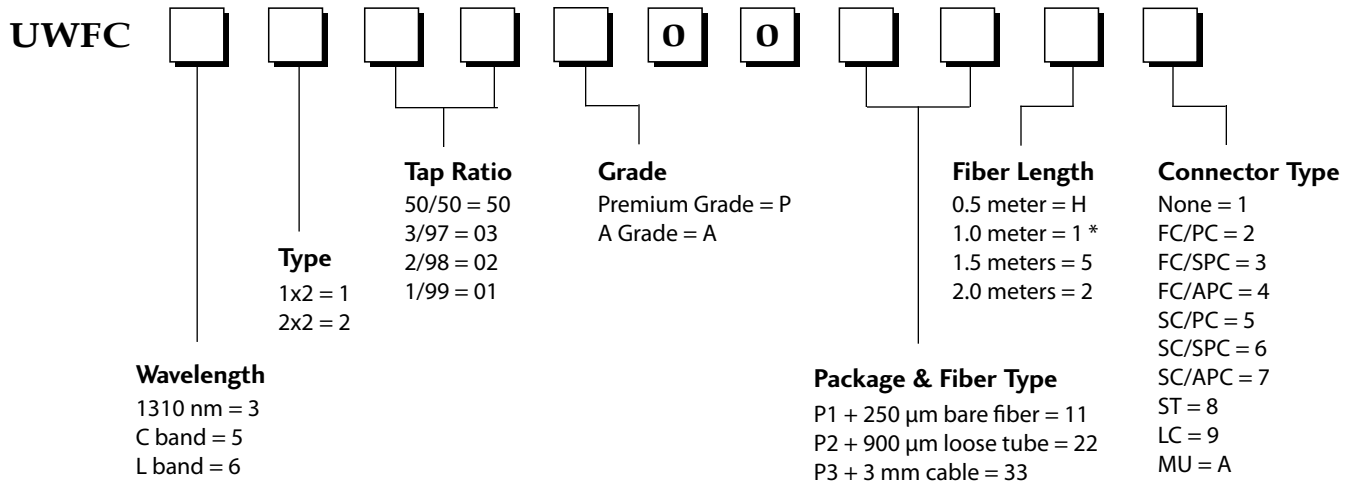
### Applications

- ◆ Undearsea

## UWFC SERIES

### Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



*Notes :*

\* 1 meter is standard. The lead time for special fiber length will be longer.