

ULTRA HI-REL UNDERSEA COMPONENT FAMILY

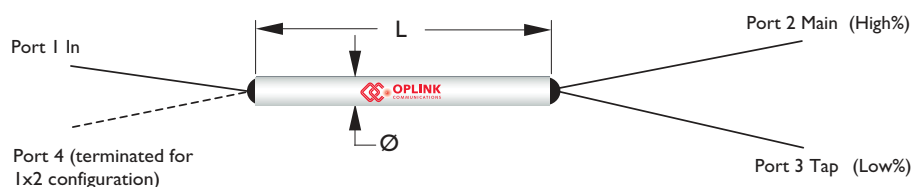
SINGLE WINDOW SINGLE MODE WIDEBAND FIBER COUPLER (1x2,2x2)

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, 2/98, 3/97, 5/95, 10/90 & 50/50		
Operating Wavelength		1270 ~ 1350 or 1510 ~ 1590 or 1600 ~ 1640		nm
Fiber Type		Corning SMF-28 or equivalent		
Uniformity (50/50)		<0.5	< 0.8	dB
Directivity		> 55		dB
Return Loss ^[1]		> 55		dB
Optical Power Handling		< 500		mW
Insertion Loss ^{[1] [2]}	Split Ratio : 50/50	< 3.4	< 3.7	dB
	Split Ratio : 10/90	< 10.8 / 0.65	< 11.2 / 0.65	
	Split Ratio : 5/95	< 13.8 / 0.40	< 14.4 / 0.42	
	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 / 0.25	19.0 ~ 21.5 / 0.25	
Temperature Dependent Loss		< 0.15	< 0.20	dB
Polarization Dependent Loss	1310 Band & C Band	< 0.10	< 0.13	dB
	L Band	< 0.13	< 0.15	
Temperature Sensitivity		< 0.002	< 0.002	dB/°C
Operating Temperature		- 10 to + 70		°C
Storage Temperature		- 40 to + 85		°C
Package Dimensions ^[3]		P1: 250 µm bare fiber P2: 900 µm loose tube P3: 3 mm cable	(Ø) 3.0 x (L) 47.0 (Ø) 3.0 x (L) 60.0 (L)96 x (W)12 x (H)6.4	mm

Features

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

Applications

- ◆ Undearsea

Note:

[1] Values are referenced without connector loss.

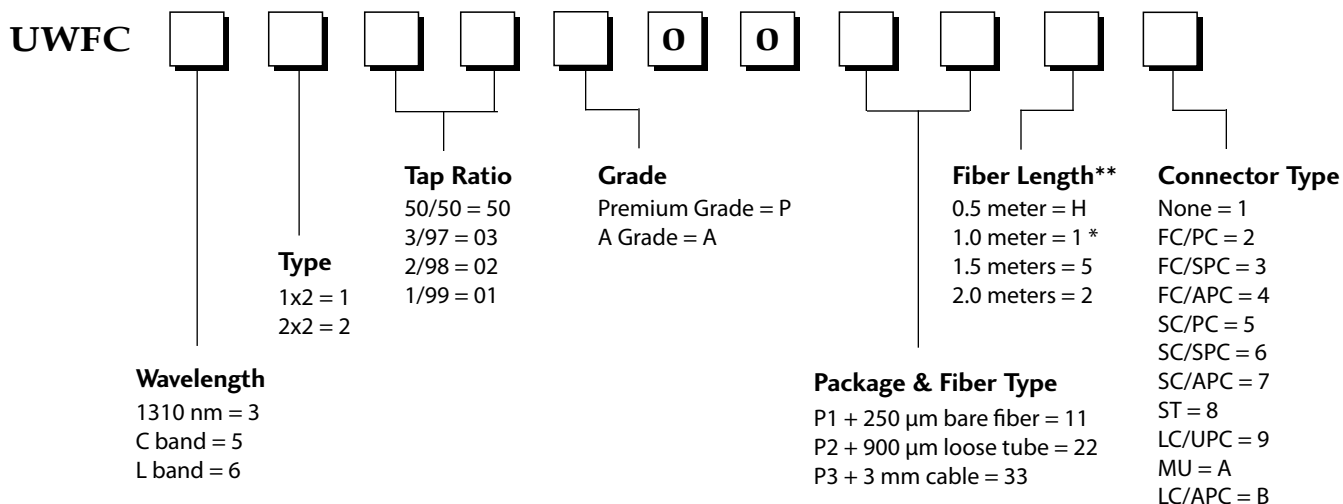
[2] Insertion loss over operating wavelength range at ~23°C (excluding PDL and TDL).

[3] The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.

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.

** The tolerance of fiber length is +/-0.1m.