

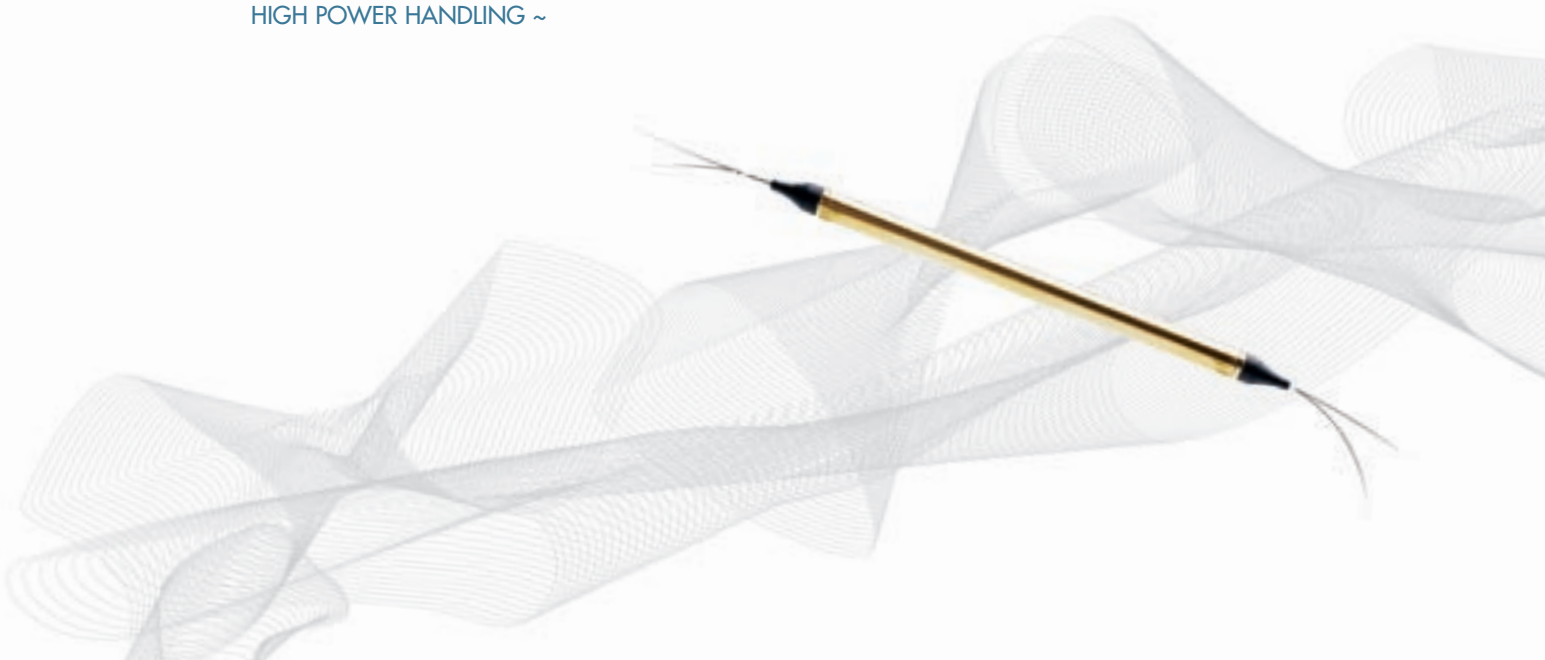
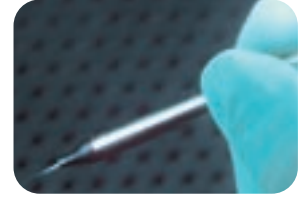
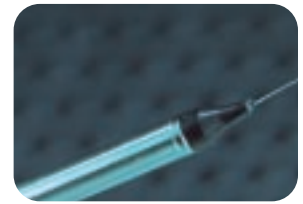
## UNDERSEA COMPONENTS **7-SEA™ SERIES** WIDEBAND COUPLERS

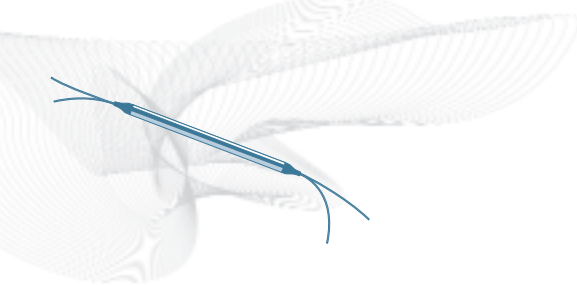
ITF's 7-Sea™ Series features Ultra High Reliability Wideband Couplers and WDMs for undersea applications with exceptional optical characteristics. The 7-Sea™ Series combines ITF's proprietary AllFiber® technology with advanced manufacturing process to offer a truly unique, high performance and undersea qualified family of products.

ITF's 7-Sea™ Couplers are wavelength independent devices that are used in polarization sensitive applications for splitting or coupling light with a wide range of ratios. They exhibit remarkable low polarization sensitivity and offer superior performance over the entire C and L Band.

ITF's 7-Sea™ Couplers are designed  
and manufactured to meet  
the highest requirements of undersea systems.

ULTRA HIGH RELIABILITY ~  
FIT RATE 0.1 ~  
ULTRA WIDE BANDWIDTH ~  
ULTRA LOW PDL ~  
SUPERIOR UNIFORMITY ~  
HIGH POWER HANDLING ~





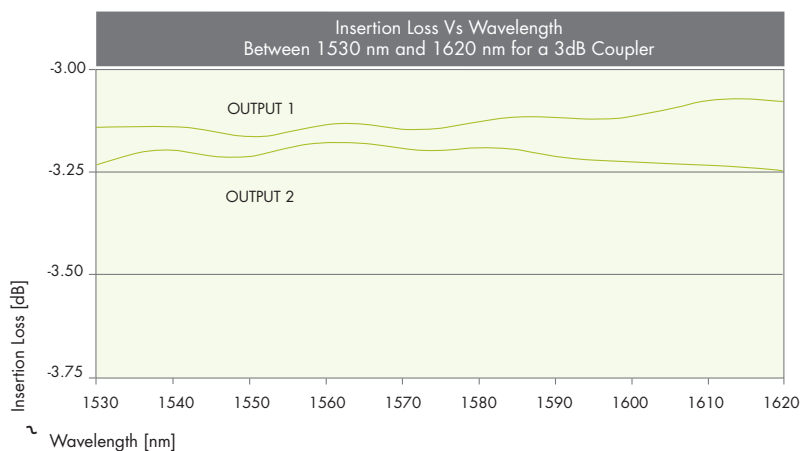
## TECHNICAL DATA

### 7-SEA™ WIDEBAND COUPLERS OPTICAL SPECIFICATIONS

Operating Wavelength	1575 ± 45 nm						
Coupling Ratio <sup>1</sup>	50/50	40/60	25/75	10/90	5/95	2/98	1/99
Insertion Loss <sup>2</sup> (dB)	≤3.3	4.4/2.5	6.5/1.5	11.0/0.6	13.8/0.45	16.0- 18.0/0.3	19.0- 21.0/0.2
Polarization Dependent Loss	0.03 dB						
Polarization Mode Dispersion	0.05 ps						
Return Loss	≥ 55 dB						
Directivity	≥ 60 dB						
Thermal Stability	< 0.002 dB/°C						
Power Handling	2 W						
Operating Temperature	-20 to +70°C						
Storage Temperature	-40 to +85°C						
Fiber Type	250 μm Corning SMF-28						

[1] Other coupling ratios are available upon request. [2] Without connectors.

To find out how ITF Optical Technologies can help meet your need of increased optical amplification power and efficiency in high capacity undersea systems, contact us now for additional information on our 7-Sea™ Series Wideband Couplers and WDMs.



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All-Fiber®