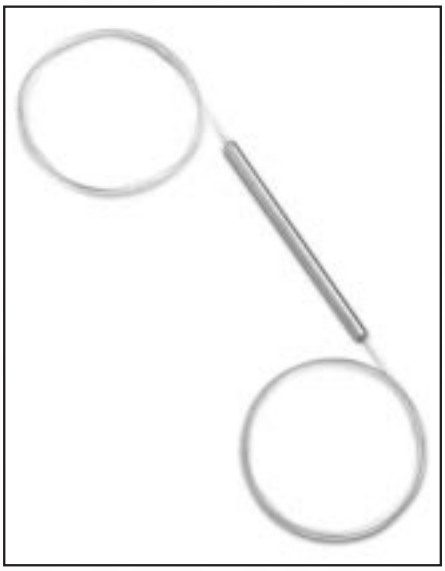
STORM PRODUCTS COMPANY

Call Toll Free
877.342.3773

WIDEBAND COUPLER:
Single Window and Dual Window

PERFORMANCE HIGHLIGHTS

- Tight Insertion Loss Tolerance
- Wideband Operation
- Environmentally Stable
- Low Back Reflection



Use Storm–Fiber Optics' singlemode wideband couplers to fine-tune the power distribution of your system and enhance its performance. Fused Biconical Taper technology provides reliable, consistent operation.

Our dual window wideband couplers enable two different wavelengths to be split at equal ratios over a wide bandwidth in both the 1310 nm and 1550 nm operating windows. These couplers provide low insertion loss and high port isolation for applications demanding critical performance. Our standard wideband couplers have a bandwidth of ± 40 nm that offers excellent performance in either the 1310 nm or 1550 nm operating window.

Storm's wideband couplers are available in 1 x 2 or 2 x 2 configurations, with customer-specified splitting ratios between 1:99 and 50:50.

WIDEBAND COUPLER:
Single Window and Dual Window

PERFORMANCE SPECIFICATIONS

WIDEBAND COUPLERS		SINGLE WINDOW		DUAL WINDOW	
Grade		A	B	A	B
Operating Wavelength (nm)		1310 ± 40 or 1550 ± 40		1310 ± 40 and 1550 ± 40	
Typical Excess Loss (dB)		0.1	0.2	0.1	0.2
Uniformity (dB) (50:50)		0.6	1.0	0.8	1.2
Thermal Stability (dB) (peak-peak)		< 0.2	< 0.3	< 0.2	< 0.3
Polarization Stability (dB)		< 0.1	< 0.15	< 0.1	< 0.15
Port Configuration		1 x 2 or 2 x 2			
Coupling Ratio		1:99 to 50:50 (50:50 standard)			
Insertion Loss (dB)		Please refer to the coupling ratio vs. insertion loss chart			
Directivity (dB)		> 50 (1 x 2) > 60 (2 x 2)			
Reflectance		< -55			
Operating Temperature (°C)		-40 ~ +85*			
Storage Temperature (°C)		-55 ~ +85			
Packaging Options *(for different pigtailing)*	1. Coated Fiber (250 µm)	A, H, I			
	2. Buffered (900 µm)	C, H, I			
	3. PVC Cable (3.0 mm)	E, H, I			
	4. Adapters	H, I			

Package options on opposite page.
**-20°C ~ +70°C for PVC cable.*

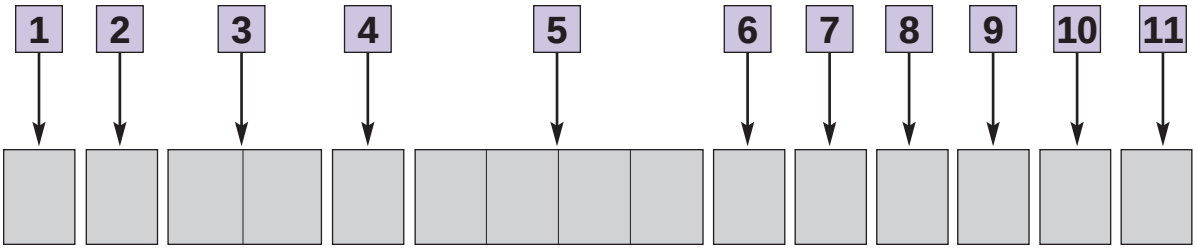
COUPLING RATIO VS. INSERTION LOSS - *SINGLE WINDOW WIDEBAND COUPLERS*

COUPLING RATIO (%)	INSERTION LOSS (dB)	
	Grade A	*Grade B*
50 / 50	3.4	3.6
40 / 60	4.4 / 2.5	4.7 / 2.7
30 / 70	5.8 / 1.9	6.0 / 1.9
20 / 80	7.6 / 1.1	7.9 / 1.2
10 / 90	11.0 / 0.63	12.9 / 0.8
5 / 95	14.6 / 0.4	18.4 / 0.5

COUPLING RATIO VS. INSERTION LOSS - *DUAL WINDOW WIDEBAND COUPLERS*

COUPLING RATIO (%)	INSERTION LOSS (dB)	
	Grade A	*Grade B*
50 / 50	3.6	3.8
40 / 60	4.7 / 2.7	5.0 / 2.9
30 / 70	6.0 / 1.9	6.4 / 2.1
20 / 80	7.9 / 1.4	8.5 / 1.5
10 / 90	11.0 / 0.7	12.7 / 0.8

THE PERFORMANCE OF THE COUPLERS HAS BEEN CAREFULLY DESIGNED TO MEET THE TOUGHEST TELCORDIA STANDARDS TA-NWT-001221



1 Type: D = Dual Window, S = Single Window

2 Grade: A or B.

3 Wavelength (nm): 13 = 1310, 15 = 1550, or 35 = 1310/1550.

4 Coupling Ratio: A = 1%, B = 5%, C = 10%, D = 15%, E = 20%, F = 25%, G = 30%, H = 35%, I = 40%, J = 45%, or K = 50%.

5 Port Configuration: 0102 = (1 x 2) or 0202 = (2 x 2)

6 Package Style: See below.

7 Fiber Type: B = Bare, 9 = 900 µm, 3 = 3 mm cable, or A = Adapter

8 Input Port Length in meters (1 meter increments)

9 Output Port Length in meters (1 meter increments)

10 Input Port Connector/Adapter

11 Output Port Connector/Adapter

Example: **DA35K0102A311TT**
Dual window wideband coupler, grade A, 1310/1550nm, 50%, 1 x 2, package A, 3 mm cable, 1 meter input, 1 meter output, SC on input, SC on output.

PACKAGE STYLE

A	Tube, 3.0 x 50 mm
C	Tube, 3.8 x 66 mm
E	Box, 101 x 12 x 10 mm
H	Enclosure Module (4 rack space)
I	Enclosure Module 154 x 110 x 16 mm

CONNECTOR/ADAPTER CODES

TYPE	
LC	L
LC Duplex w/ clips	M
LC 90° Boot	D
SC	T
SC Duplex w/ Clips	B
SC (APC)	Q
SC 90° Boot	C
FC	P
FC (APC)	U
ST Compatible	R
NO CONNECTOR	0 (zero)

WIDEBAND COUPLER:
Single Window and Dual Window