

Fiberdyne Labs, Inc. Coupler/Splitter Singlemode Dual Window Specifications

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- [Coupler/Splitter SM Dual Window Part Number Matrix](#)

Dual Window Coupler Specifications			
		Ultra & Premium	Standard
Center Wavelength 1310, 1550	Excess Loss Max.	0.1dB	0.3dB
Bandwidth +/- 40 nm Specifications Guaranteed +/- 40nm Device Operational 1260nm - 1620nm.	Polarization Dependent Loss Max.	0.15dB	0.2dB
Directivity 50 dB Min. Operating Temperature -40C to + 85C			

Dual Window Ultra Coupler Insertion Loss Values

Part Number	Split Ratio	Min. Insertion Loss	Max. Insertion Loss
FDC-XXX-050-XXX	50/50	2.92/2.92	3.30/3.30
FDC-XXX-045-XXX	45/55	3.37/2.52	3.77/2.88
FDC-XXX-040-XXX	40/60	3.87/2.15	4.29/2.49
FDC-XXX-035-XXX	35/65	4.44/1.80	4.89/2.14
FDC-XXX-030-XXX	30/70	5.09/1.49	5.58/1.81
FDC-XXX-025-XXX	25/75	5.85/1.19	6.40/1.51
FDC-XXX-020-XXX	20/80	6.78/0.92	7.41/1.22
FDC-XXX-015-XXX	15/85	7.96/0.66	8.74/0.96
FDC-XXX-010-XXX	10/90	9.59/0.41	10.66/0.71
FDC-XXX-005-XXX	05/95	12.22/0.18	14.18/0.47
FDC-XXX-001-XXX	01/99	18.24/0.00	23.21/0.29

Dual Window Premium Coupler Insertion Loss Values

Part Number	Split Ratio	Min. Insertion Loss	Max. Insertion Loss
FDC-XXX-150-XXX	50/50	2.68/2.68	3.57/3.57
FDC-XXX-145-XXX	45/55	3.10/2.29	4.07/3.12
FDC-XXX-140-XXX	40/60	3.57/1.94	4.64/2.72
FDC-XXX-135-XXX	35/65	4.09/1.61	5.29/2.35
FDC-XXX-130-XXX	30/70	4.69/1.31	6.05/2.00
FDC-XXX-125-XXX	25/75	5.38/1.02	6.98/1.69
FDC-XXX-120-XXX	20/80	6.20/0.76	8.16/1.39
FDC-XXX-115-XXX	15/85	7.45/0.51	9.41/1.12
FDC-XXX-110-XXX	10/90	8.86/0.27	11.75/0.86
FDC-XXX-105-XXX	05/95	11.55/0.04	15.43/0.61
FDC-XXX-101-XXX	01/99	18.24/0.00	23.21/0.42

Dual Window Standard Coupler Insertion Loss Values

Part Number	Split Ratio	Min. Insertion Loss	Max. Insertion Loss
FDC-XXX-250-XXX	50/50	2.68/2.68	3.77/3.77
FDC-XXX-245-XXX	45/55	3.10/2.29	4.27/3.32
FDC-XXX-240-XXX	40/60	3.57/1.94	4.84/2.92
FDC-XXX-235-XXX	35/65	4.09/1.61	5.49/2.55
FDC-XXX-230-XXX	30/70	4.69/1.31	6.25/2.20
FDC-XXX-225-XXX	25/75	5.38/1.02	7.18/1.89
FDC-XXX-220-XXX	20/80	6.20/0.76	8.36/1.59
FDC-XXX-215-XXX	15/85	7.45/0.51	9.61/1.32
FDC-XXX-210-XXX	10/90	8.86/0.27	11.95/1.06
FDC-XXX-205-XXX	05/95	11.55/0.04	15.63/0.81
FDC-XXX-201-XXX	01/99	18.24/0.00	23.41/0.62

Fiber Optic Couplers Ordering Information														
F	D	C	-	X	X	X	-	X	X	X	-	X	X	X
F	D	C	-	4	5	6	-	7	8	9	-	10	11	12
FDC = Fiberdyne Labs SM Dual Window Couplers														

4th. Digit	Center Wavelength	0 = 1310 / 1550 nm
5th. Digit	Ports	1 = 1x2 2 = 2x2
6th. Digit	Package	0 = 250µm 0.13" x 2.2" 1 = 900µm 0.13" x 2.2" Y = Y Cable (1x2, 3mm, 1 meter overall length) Heavy Duty (H.D.) Case = 4" x 0.6" x 0.3" 2 = H.D. Case w/3mm Legs 3 = H.D. Case w/2mm Legs 4 = H.D. Case w/Outdoor Rated 2mm Legs B = H.D. Case w/900µm Legs
7th. Digit	Grade	0 = Ultra 1 = Premium 2 = Standard
8th. & 9th. Digits	Coupling Ratio	Specify First Two Digits (in multiples of 5 only) i.e. 50 = 50/50 60 = 60/40
10th. Digit	Fiber Type	0 = Corning SMF 28e+®
11th. Digit	Connector Type	0 = None 1 = FC 2 = FC/APC 3 = SC 4 = SC/APC 5 = ST 6 = D4 7 = Other (Specify) 8 = Custom Configuration (i.e. SC input to SC/APC outputs) L = LC N = LC/APC
12th. Digit	Overall Length	1 = 1 Meter (0.5 meter input, 0.5 meter output) 2 = 2 Meters (1 meter input, 1 meter output)

Part Number Ordering Example:	FDC-011-155-032
This gives you a Fiberdyne Labs Singlemode Dual Window 1310/1550nm wavelength coupler, 1x2, 900um, Premium, 55/45 Coupling Ratio, Corning SMF 28+®, SC Connectors, 2 Meters overall length (1 Meter input, 1 Meter output)	