



8000 & 8100 Optical Distribution Series

Loss budgets and transmission distances

This four-page guide is intended to be used as a supplement to the data sheets for the 8000 and 8100 Series of products.

Signal	Channels	Direction
8000 Series All types	1 to 4 DA	→
8100 Series All types	2 to 12 DA	→



8000 Series

8100 Series



Contents

The following charts show loss budgets and maximum transmission distances for all units compatible with the 8000 and 8100 Series O.D.A.s. Products not included on the input and/or output charts do not function with these units. Note that some systems operating at the highest wavelength are compatible with the O.D.A.'s input but not with their output.

Be sure to refer to the charts on the last page of this document for loss budgets resulting from the cascading of two or more O.D.A.s together, as these numbers are different than when only a single O.D.A. is in use.

- Single O.D.A.; Loss Budgets Between Transmitter and O.D.A. Page 2
- Single O.D.A.; Loss Budgets Between O.D.A. and Receiver Page 3
- Cascading O.D.A.s; Loss Budget Between O.D.A. Units Page 4

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UPDATED 2/6/2009

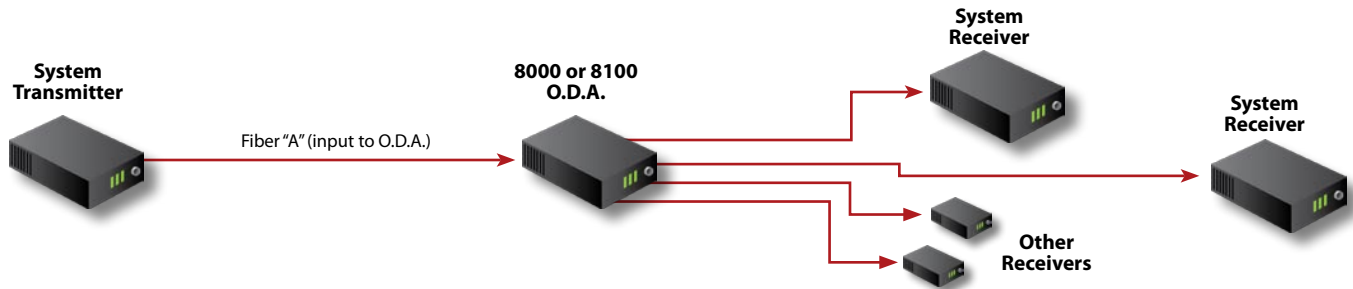
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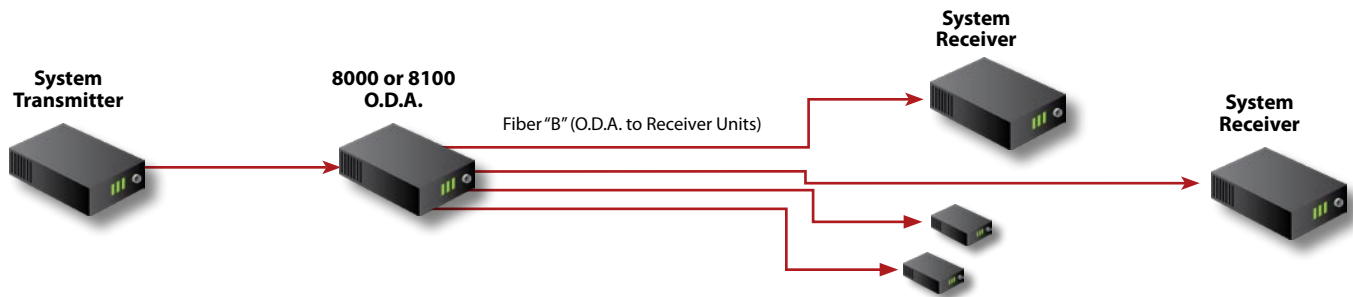
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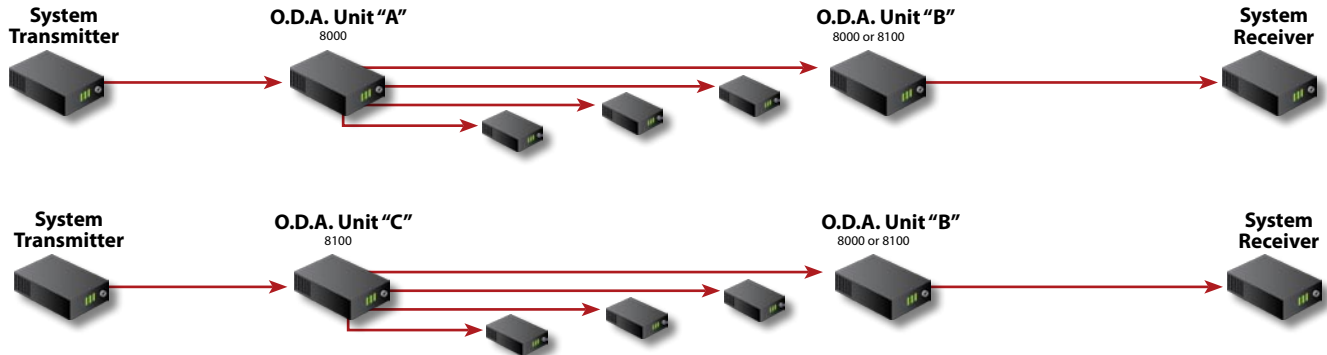
System Source Transmitter	Loss Budget in dB for Fiber "A"	Max. Distance in km for Fiber "A"	8000 & 8100 Part Number Configuration for "y"
P/N: Flex System (1-way systems only)			
Part Suffix			
-1	0-18	2	8
-3	0-1	0.3	3
-7	2-18	40	3
-9	0-17	55	3
P/N: 3132			
Part Suffix			
-x9pp	0-15	0.5 (MM)* or 50 (SM)**	3
P/N: 3440			
Part Suffix			
-x1z	0-18	2	8
P/N: 4040			
Part Suffix			
-x1z	0-20	1	8
-x3z	2-18	5	3
-x7z	2-16	35	3
-x9z	0-17	55	3
P/N: 4160, 4320			
Part Suffix			
-zz1y or -zzy1	0-20	1	8
-zz3y or -zzy3	2-18	5	3
-zz7y or -zzy7	2-16	35	3
-zz9y or -zzy9	0-17	55	3
P/N: 7030, 7040, 7050, 7060, 7070, 7100, 7130, 7140			
Part Suffix			
-x1z	0-13	0.75	8
-x3z	2-18	2	3
-x7z	2-16	35	3
-x9z	2-17	55	3
P/N: 7220, 7222, 7224, 7226, 7225, 7227, 7242			
Part Suffix			
-x7z	0-12	0.5 (MM)* or 20 (SM)**	3
-x9z***	0-12	0.4 (MM)* or 20 (SM)**	3

*(MM) = transmitted over multimode fiber; **(SM) = transmitted over single mode fiber; ***Discontinued product



System Receiver	Loss Budget in dB for Fibers "B"	Max. Distance in km for Fibers "B"	Part Number Configuration for "w"	
			8000	8100
P/N: Flex System (1-way systems only)				
Part Suffix				
-1	0-18	2	A or B	J or K
-3	0-28	18	C or D	L or M
-7	0-28	60	C or D	L or M
P/N: 3133				
Part Suffix				
-x9pp	0-13	0.5 (MM)* or 40 (SM)**	G or H	Q or R
P/N: 3441				
Part Suffix				
-x1z	0-16	2	A or B	J or K
P/N: 4041				
Part Suffix				
-x1z	0-20	1	A or B	J or K
-x3z	0-25	10	C or D	L or M
-x7z	0-23	55	C or D	L or M
P/N: 4161, 4321				
Part Suffix				
-zz1y or -zzy1	0-20	1	A or B	J or K
-zz3y or -zzy3	0-25	10	C or D	L or M
-zz7y or -zzy7	0-23	55	C or D	L or M
P/N: 7031, 7041, 7051, 7061, 7071, 7101, 7131, 7141				
Part Suffix				
-x1z	0-13	0.75	A or B	J or K
-x3z	0-23	2	C or D	L or M
-x7z	0-21	45	C or D	L or M
-x9z	0-17	55	G or H	Q or R
P/N: 7221, 7223, 7225, 7227, 7243				
Part Suffix				
-x7z	0-12	0.5 (MM)* pr 20 (SM)**	E or F	N or P
-x9z***	0-12	0.4 (MM)* or 20 (SM)**	G or H	Q or R

*(MM) = transmitted over multimode fiber; **(SM) = transmitted over single mode fiber; ***Discontinued product



Note: When two or more O.D.A. units are cascaded together, loss budgets and distances should be derated by 10% for each additional O.D.A.

System Source Transmitter	Unit "A" Configuration for "w"	Unit "C" Configuration for "w"	Loss Budget in dB	Max. Distance in km	Unit "B" Configuration for "y"
P/N: Flex System (1-way systems only)					
Part Suffix					
-1	A or B	J or K	0-16	1.5	8
-3	C or D	L or M	2-17	11	3
-7	C or D	L or M	2-18	40	3
P/N: 3132					
Part Suffix					
-x9pp	G or H	Q or R	0-15	0.5 (MM)* or 50 (SM)**	3
P/N: 3440					
Part Suffix					
-x1y	A or B	J or K	0-18	2	8
P/N: 4040					
Part Suffix					
-x1z	A or B	J or K	0-20	1	8
-x3z	C or D	L or M	2-18	5	3
-x7z	C or D	L or M	2-16	35	3
P/N: 4160, 4320					
Part Suffix					
-zz1y or zzy1	A or B	J or K	0-20	1	8
-zz3y or zzy3	C or D	L or M	2-18	5	3
-zz7y or zzy7	C or D	L or M	2-16	35	3
P/N: 7030, 7040, 7050, 7060, 7070, 7100, 7130, 7140					
Part Suffix					
-x1z	A or B	J or K	0-13	0.75	8
-x3z	C or D	L or M	2-18	2	3
-x7z	C or D	L or M	2-16	35	3
-x9z	G or H	Q or R	2-17	55	3
P/N: 7220, 7224, 7226, 7225, 7227, 7242					
Part Suffix					
-x7z	E or F	N or P	0-11	0.5 (MM)* or 20 (SM)**	3
-x9z***	G or H	Q or R	0-11	20 (SM)**	3

(MM) = transmitted over multimode fiber; (SM) = transmitted over single mode fiber; *** Discontinued product