

**Note:** If you have the DTX-GFM (DTX Gigabit Multimode Fiber Module), you are now permitted to select a TIA, ISO or EN Generic Cabling Standard. These standards specify the use of a category 1 light source. The DTX-GFM contains a VCSEL, which is typically a category 3 or 4 light source. However, the standards permit the use of a category 3 or 4 light source - if the customer agrees to it. Therefore, the entry [Backbone Laser MM](#) has been removed.

#### TIA568B Fiber Horiz

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu$ m	2.0	2.0					90		1.4910
Multimode 50 $\mu$ m	2.0	2.0					90		1.4785

#### TIA568B Backbone MM

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu$ m			3.5	1.5	0.75	0.3	2000		1.4910
Multimode 50 $\mu$ m			3.5	1.5	0.75	0.3	2000		1.4785

#### TIA568B Backbone SM ISP

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode			1.0	1.0	0.75	0.3	5000		1.4660

#### TIA568B Backbone SM OSP

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode			0.5	0.5	0.75	0.3	5000		1.4660

#### ISO11801 Fiber Optic Link

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu$ m			3.5	1.0	0.75	0.3	2000		1.4910
Multimode 50 $\mu$ m			3.5	1.0	0.75	0.3	2000		1.4785

#### ISO 11801 Fiber Optic Link

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode			1.0	1.0	0.75	0.3	2000		1.4660

**ISO11801 Fiber Optic Channel**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
OF-300 Multimode 62.5	2.55	1.95					300		1.4910
OF-500 Multimode 62.5	3.25	2.25					500		1.4910
OF-2000 Multimode 62.5	8.50	4.50					2000		1.4910
OF-300 Multimode 50	2.55	1.95					300		1.4785
OF-500 Multimode 50	3.25	2.25					500		1.4785
OF-2000 Multimode 50	8.50	4.50					2000		1.4785

**ISO11801 Fiber Optic Channel**

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
OF-300 Singlemode	1.80	1.80					300		1.4660
OF-500 Singlemode	2.00	2.00					500		1.4660
OF-2000 Singlemode	3.50	3.50					2000		1.4660

**EN50173 Fiber Optic Link**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm			3.5	1.0	0.75	0.3	2000		1.4910
Multimode 50 μm			3.5	1.0	0.75	0.3	2000		1.4785

**EN50173 Fiber Optic Link**

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode			1.0	1.0	0.75	0.3	2000		1.4660

**EN50173 Fiber Optic Channel**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
OF-300 Multimode 62.5	2.55	1.95					300		1.4910
OF-500 Multimode 62.5	3.25	2.25					500		1.4910
OF-2000 Multimode 62.5	8.50	4.50					2000		1.4910
OF-300 Multimode 50	2.55	1.95					300		1.4785
OF-500 Multimode 50	3.25	2.25					500		1.4785
OF-2000 Multimode 50	8.50	4.50					2000		1.4785

**EN50173 Fiber Optic Channel**

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
OF-300 Singlemode	1.80	1.80					300		1.4660
OF-500 Singlemode	2.00	2.00					500		1.4660
OF-2000 Singlemode	3.50	3.50					2000		1.4660

**General Fiber Optic**

	850 nm Fixed Loss	1300 nm Fixed Loss	1550 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type										
Multimode 62.5 μm	4.5	2.2						1000		1.4910
Multimode 50 μm	4.5	2.2						1000		1.4785
Singlemode FES		3.0	3.0							

**General Fiber Optic**

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode	5.0	5.0					5000		1.4660

**1000BASE-LX**

	1310 nm Fixed Loss	1550 nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode	4.7						5000		1.4660

**1000BASE-SX**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm	2.38						220		1.4910
Multimode 50 μm	3.56						550		1.4785

**1000BASE-LX**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm		2.35					550		1.4910
Multimode 50 μm		2.35					550		1.4785
Singlemode FES		4.57							1.4660

**100BASE-FX**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm		11.0					2000		1.4910
Multimode 50 μm		11.0					2000		1.4785

**10BASE-FL**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm	12.5						2000		1.4910
Multimode 50 μm	12.5						2000		1.4785

**10/100BASE-SX**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm	4.0						300		1.4910
Multimode 50 μm	4.0						300		1.4785

**FDDI Fiber Optic**

	850 nm Fixed Loss	1300 nm Fixed Loss	1550 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type										
Multimode 62.5 μm		11.0						2000		1.4910
Multimode 50 μm		11.0						2000		1.4785
Singlemode FES		10.0	10.0							1.4660

**ATM52**

	850 nm Fixed Loss	1300 nm Fixed Loss	1550 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type										
Multimode 62.5 μm		10.0						3000		1.4910
Multimode 50 μm		10.0						3000		1.4785
Singlemode FES		7.0	7.0							1.4660

**ATM155**

	850 nm Fixed Loss	1300 nm Fixed Loss	1550 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type										
Multimode 62.5 μm		10.0						2000		1.4910
Multimode 50 μm		10.0						2000		1.4785
Singlemode FES		7.0	7.0							1.4660

**ATM155SWL**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm	7.2						1000		1.4910
Multimode 50 μm	7.2						1000		1.4785

**ATM622 Fiber Optic**

	850 nm Fixed Loss	1300 nm Fixed Loss	1550 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type										
Multimode 62.5 μm		6.0						500		1.4910
Multimode 50 μm		6.0						500		1.4785
Singlemode FES		7.0	7.0							1.4660

**ATM622SWL Fiber Optic**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu\text{m}$	4.0						300		1.4910
Multimode 50 $\mu\text{m}$	4.0						300		1.4785

**Fiber Channel 133**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu\text{m}$		6.0					1500		1.4910
Multimode 50 $\mu\text{m}$		6.0					1500		1.4785

**Fiber Channel 266**

	850 nm Fixed Loss	1300 nm Fixed Loss	1550 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type										
Multimode 62.5 $\mu\text{m}$		6.0						1500		1.4910
Multimode 50 $\mu\text{m}$		5.5						1500		1.4785
Singlemode FES		6.0	6.0							1.4660

**Fiber Channel 266SWL**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu\text{m}$	12.0						700		1.4910
Multimode 50 $\mu\text{m}$	12.0						2000		1.4785

**10GBASE-S**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 $\mu\text{m}$ MBW = 160	2.6						26		1.4910
Multimode 62.5 $\mu\text{m}$ MBW = 200	2.5						33		1.4910
Multimode 50 $\mu\text{m}$ MBW = 400	2.2						66		1.4785
Multimode 50 $\mu\text{m}$ MBW = 500	2.3						82		1.4785
Multimode 50 $\mu\text{m}$ MBW = 2000	2.6						300		1.4785

**10GBASE-LX4**

	850 nm Fixed Loss	1300 nm Fixed Loss	850 nm Loss/km (in dB)	1300 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Multimode 62.5 μm MBW = 500		2.5					300		1.4910
Multimode 50 μm MBW = 400		2.0					240		1.4785
Multimode 50 μm MBW = 500		2.0					300		1.4785
Multimode 50 μm MBW =2000		2.0					300		1.4785

**10GBASE-LX4**

	1310nm Fixed Loss	1550nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode 9 μm	6.3						5000*		1.4660

**10GBASE-L**

	1310nm Fixed Loss	1550nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode 9 μm	6.2						5000*		1.4660

**10GBASE-E**

	1310nm Fixed Loss	1550nm Fixed Loss	1310 nm Loss/km (in dB)	1550 nm Loss/km (in dB)	Adapter Loss (in dB)	Splice Loss (in dB)	Length	Propagation Delay	Index of Refraction @1300 nm
	dB	dB	dB	dB	dB	dB	meters	ns	
Cable Type									
Singlemode 9 μm		11.4					5000*		1.4660

\*Standard permits 10,000 meters.