

**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 μm	2.0	2.0					90		1.4910
Multimode 50 μm	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 μm			3.5	1.5	0.75	0.3	2000		1.4910
Multimode 50 μm			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 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

#### 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 $\mu\text{m}$	4.5	2.2						1000		1.4910
Multimode 50 $\mu\text{m}$	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 $\mu\text{m}$	2.38						220		1.4910
Multimode 50 $\mu\text{m}$	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 $\mu\text{m}$		2.35					550		1.4910
Multimode 50 $\mu\text{m}$		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 $\mu\text{m}$		11.0					2000		1.4910
Multimode 50 $\mu\text{m}$		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 $\mu\text{m}$	12.5						2000		1.4910
Multimode 50 $\mu\text{m}$	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.