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877.342.3773

FIBER OPTIC CABLE ASSEMBLY: Mode Conditioner

PERFORMANCE HIGHLIGHTS

- Eliminates Differential Mode Delay (DMD) Effects
- IEEE-802.3z (GbE) Compliant
- Consistent Fiber Offset
- Low Insertion Loss



To optimize long-wave (1300 nm) multimode Gigabit Ethernet (GbE) applications, Storm Products—Fiber Optics offers a mode-conditioning patch cord. This patch cord functions the same as a standard patch cord but contains an offset singlemode-to-multimode fiber connection point. The offset encasement is both rugged and low profile.

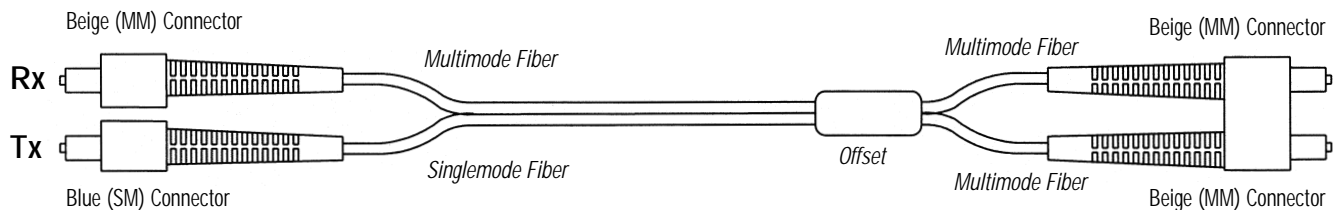
The need for a mode-conditioning patch cord arises from the small launch area of GbE long-wave (1300 nm) transceiver modules. The modules utilize a singlemode laser but are required to operate over multimode fibers for long-wave GbE. When a singlemode laser is launched into the center of multimode fiber it may cause differential mode delay (DMD) effects that generate multiple signals.

These multiple signals severely limit cable lengths when operating GbE. The mode-conditioning patch cord eliminates the effects of differential mode delay by launching the single-mode laser into the multimode core at a specified offset. This eliminates multiple signals and allows increased cable length in GbE applications.



To Equipment

To Cable Plant



- Insertion Loss < 0.5 dB
- Return Loss < -26 dB

YYY = The Length of the Patchcord in Meters

PART NUMBER	DESCRIPTION			
82-200-ZZ- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/SC, SC duplex each side, 62.5 μm, Riser
Y	Y	Y		
82-200-ZG- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/ST compatible, SC duplex equipment side to ST compatible duplex cable plant side, 62.5 μm, Riser
Y	Y	Y		
82-201-ZZ- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/SC, SC duplex each side, 62.5 μm, Plenum
Y	Y	Y		
82-201-ZG- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/ST compatible, SC duplex equipment side to ST compatible duplex cable plant side, 62.5 μm Plenum
Y	Y	Y		
82-202-ZZ- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/SC, SC duplex each side, 50 μm Riser
Y	Y	Y		
82-202-ZG- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/ST compatible, SC duplex equipment side to ST compatible duplex cable plant side, 50 μm, Riser
Y	Y	Y		
82-203-ZZ- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/SC, SC duplex each side, 50 μm, Plenum
Y	Y	Y		
82-203-ZG- <table><tr><td>Y</td><td>Y</td><td>Y</td></tr></table> M	Y	Y	Y	SC/ST compatible, SC duplex equipment side to ST compatible duplex cable plant side, 50 μm, Plenum
Y	Y	Y		

Example: 82-202-ZG-005M is a meter, SC duplex equipment side to ST compatible duplex cable plant side, 50 μ m, Riser