

MEGLADON[®]

MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



Mode Conditioning Cables

The Megladon Difference

Megladon's **Mode Conditioning Cables** are designed to allow for longwave (1310nm) Gigabit Ethernet applications to function over MM fiber. When Gigabit transceivers launch directly into MM fiber, multiple modes (light pathways) are utilized that do not always have the same transmission length or characteristics, causing Differential Mode Delay (DMD). Mode conditioning cables prevent this from occurring by allowing the transceiver to launch directly into a SM fiber that is offset spliced into the MM fiber of choice, allowing for a controlled launch into the MM fiber.

For more information on Megladon's HLC[®] process and products, please visit megladonmfg.com.

KEY BENEFITS

- ✓ Exclusive HLC Termination Process
- ✓ SCRATCHGUARD Durable Mating Surface
- ✓ Allows Gigabit Transceivers to launch into MM Glass
- ✓ Differential Mode Delay (DMD) Solution
- ✓ Can be built with 62.5um or 50um MM Fiber, Coupled to 9/125um SM Fiber
- ✓ Available with SC, LC, ST & FC Connectors
- ✓ Built according to IEEE Std. 802.3

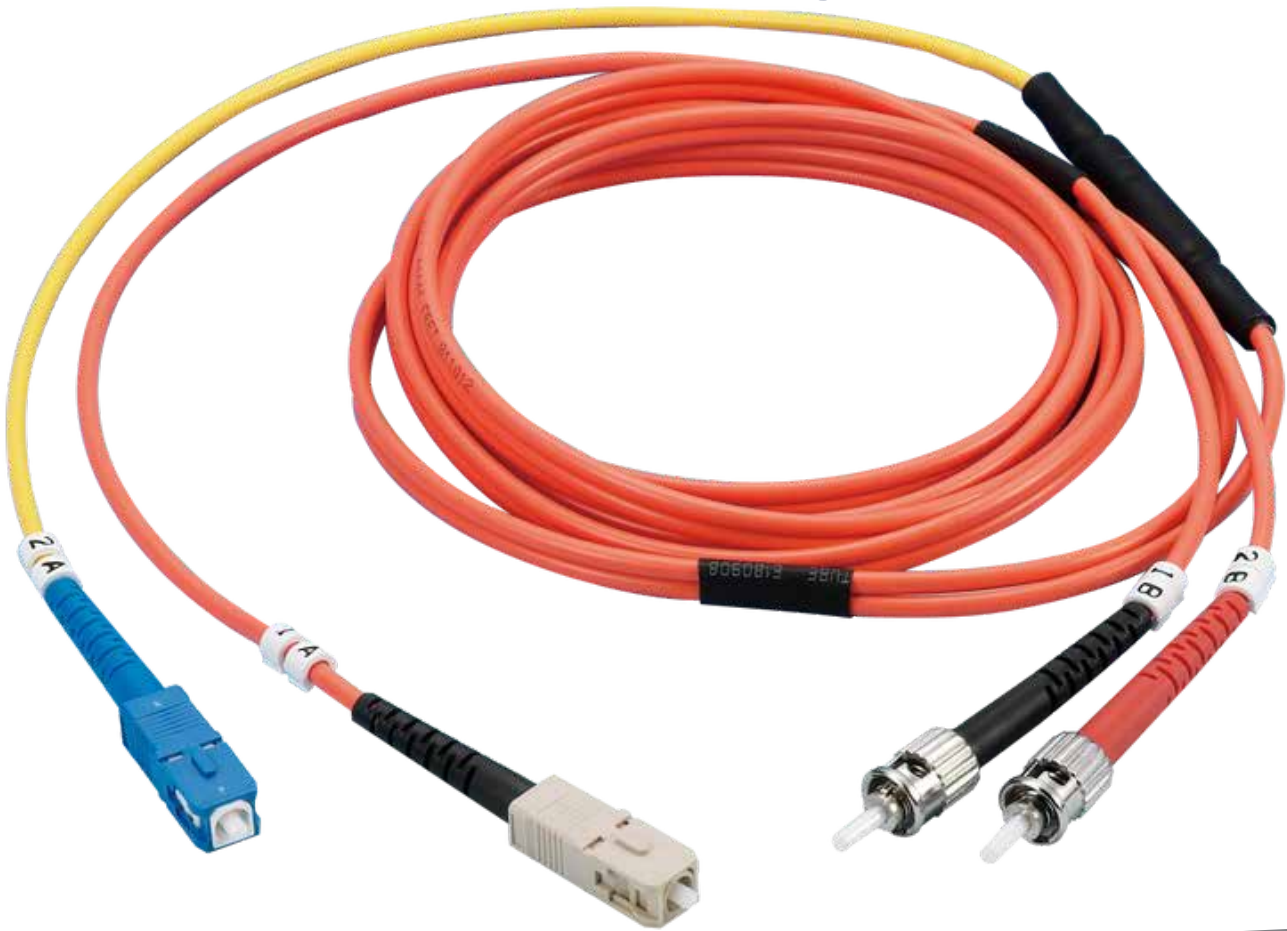
APPLICATIONS

- ▶ Gigabit Ethernet over Legacy MM Plant



MEGLADON MANUFACTURING GROUP, LTD.
CERTIFIED TO ISO 9001:2015
CERTIFICATE NO. 1092256

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PERFORMANCE CHARACTERISTICS

Megladon Mode Conditioning Cables

<i>Non-Conditioned Channel</i>	<i>Min</i>	<i>Max</i>	<i>Units</i>
Insertion Loss - MM		<0.5	dB

Megladon Mode Conditioning Cables

<i>Conditioned Channel</i>	<i>Min</i>	<i>Max</i>	<i>Units</i>
Insertion Loss - SM to MM Direction		<1.0	dB
Operating Wavelength		1310	Nm

ENVIRONMENTAL CHARACTERISTICS

Megladon Mode Conditioning Cables

	<i>Min</i>	<i>Max</i>	<i>Units</i>
Storage Temperature	-40	85	C
Operation Temperature	-40	+75	C
Humidity	5	95	% Relative
Bend Radius	30		mm
Radius of Curvature	7	25	mm
Apex Offset	0	50	um
Fiber Height	Fn (ROC)	50	nm
Angle (HLC)	-0.2	0.2	degrees

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Your Fiber Optic Solutions Partner • Reliable - Rugged - Repeatable

12317 Technology Blvd., Ste. 100 • Austin, Texas • (512) 491-0006 • megladonmfg.com