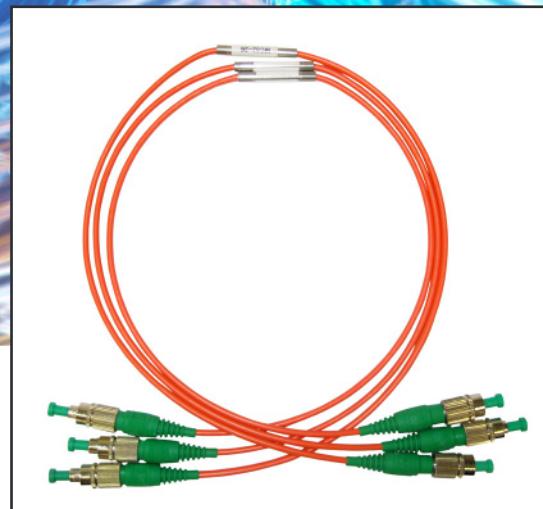# LUNA

Mode Conditioners

Luna Mode Conditioners enable Luna's Optical Backscatter Reflectometer (OBR) products to better locate and analyze faults in multimode fiber. The Mode Conditioner redistributes a portion of light from the fundamental propagation mode in multimode fiber into several higher order modes making the OBR system more sensitive to faults that affect these modes such as tight bends, bad splices and cladding defects.

KEY FEATURES & APPS

- Redistributes light from the fundamental mode to higher order modes
- 50/125 µm and 62.5/125 µm standard fibers
- Rugged design for field use with Luna's portable high-resolution OBRs
- Fault location in multimode fiber networks, saving hours of troubleshooting time

PARAMETER	SPECIFICATIONS		UNITS
Core/clad	50/125	62.5/125	µm
Wavelength range	1525 - 1610	1525 - 1610	nm
Insertion loss (typical)	< 5.0	< 6.0	dB
Return loss	< 55	< 55	nm
Length	1.0 ± 0.05	1.0 ± 0.05	m
Weight	< 100	< 100	g

ORDERING

Mode Conditioner	Description	Mode Conditioner	Description
MC01000	50 µm core, FC/APC SMF to FC/PC MMF	MC01004	62.5 µm core, FC/APC SMF to FC/PC MMF
MC01001	50 µm core, FC/APC SMF to SC/PC MMF	MC01005	62.5 µm core, FC/APC SMF to SC/PC MMF
MC01002	50 µm core, FC/APC SMF to LC/PC MMF	MC01006	62.5 µm core, FC/APC SMF to LC/PC MMF
MC01003	50 µm core, FC/APC SMF to ST/PC MMF	MC01007	62.5 µm core, FC/APC SMF to ST/PC MMF

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*Specifications subject to change without notice.