



# 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  $\mu\text{m}$  and 62.5/125  $\mu\text{m}$  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	$\mu\text{m}$
Wavelength range	1525 - 1610	1525 - 1610	nm
Insertion loss (typical)	< 5.0	< 6.0	dB
Return loss	< 55	< 55	nm
Length	1.0 $\pm$ 0.05	1.0 $\pm$ 0.05	m
Weight	< 100	< 100	g

## ORDERING

Mode Conditioner	Description
<b>MC01000</b>	50 $\mu\text{m}$ core, FC/APC SMF to FC/PC MMF
<b>MC01001</b>	50 $\mu\text{m}$ core, FC/APC SMF to SC/PC MMF
<b>MC01002</b>	50 $\mu\text{m}$ core, FC/APC SMF to LC/PC MMF
<b>MC01003</b>	50 $\mu\text{m}$ core, FC/APC SMF to ST/PC MMF

Mode Conditioner	Description
<b>MC01004</b>	62.5 $\mu\text{m}$ core, FC/APC SMF to FC/PC MMF
<b>MC01005</b>	62.5 $\mu\text{m}$ core, FC/APC SMF to SC/PC MMF
<b>MC01006</b>	62.5 $\mu\text{m}$ core, FC/APC SMF to LC/PC MMF
<b>MC01007</b>	62.5 $\mu\text{m}$ core, FC/APC SMF to ST/PC MMF