

SmartClass™ Fiber MPOLx

MPO Optical Loss Test Sets



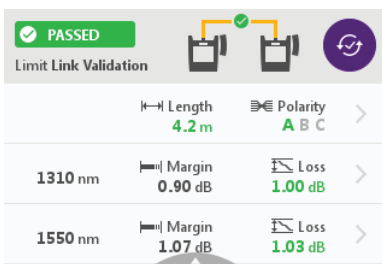
■ 제품소개



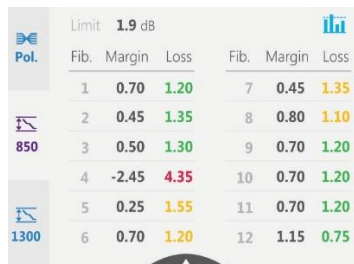
Viavi Solutions SmartClass Fiber MPOLx는 MPO 광케이블(리본 광케이블) 연결을 사용하여 TIER1(Basic)인증을 위한 모든 테스트 요건을 수행할 수 있는 업계 최초의 전용 광 손실 테스트 세트입니다. MPOLx는 근본적인 MPO 연결로 네트워크 링크를 테스트하고 인증 할 때 빠르고 안정적인 워크 플로우를 보장하기 위해 필수 MPO 테스트 기능과 함께 사용할 수 있는 광 소스 및 파워메타를 제공합니다

■ 주요기능

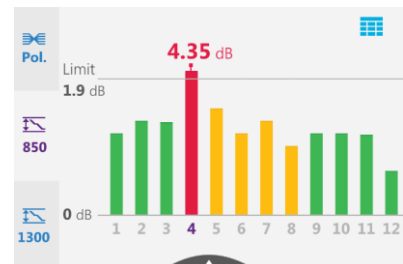
- MPOLx를 통해 현장 기술자들은 단일 솔루션에 대한 Tier1(기본)인증 요구 사항을 모두 충족할 수 있습니다.
 - MPO 광케이블 길이 측정
 - 다중 파장에서 광 손실 측정
 - 모든 12MPO 광케이블의 극성(심선대조)을 점검합니다.
 - 기기에서 직접 MPO 테스트를 수행합니다.
 - 6초 이내에 모든 12개의 MPO 광케이블에 대한 테스트 결과 제공.
 - 트렁크 케이블과 벌크 헤드 모두에 대한 기본적인 MPO 단면, 표면 검사 및 자동 분석 기능 제공
 - 듀얼 파장 광 소스 지원
 - Encircled flux 준수
 - 12 레인 모두를 테스트 할 필요가 없는 40GBASE-SR4 제한적으로 테스트 가능
 - 모든 MPOLx 장치에 3.5인치 컬러 터치 스크린 장착
 - 인정 보고서 생성
 - 최장 배터리 수명



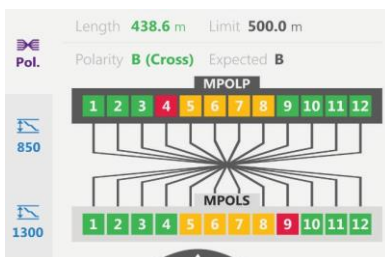
Test Results Summary



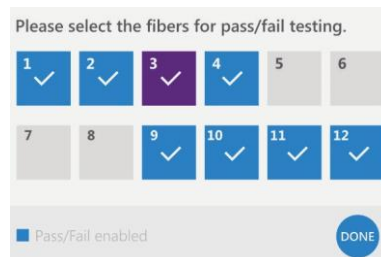
개별 결과: Table View



개별 결과: Graphical View



개별 결과: Polarity View



각 MPO 광케이블 대한 선택 측정



40G BASE-SR4 Lane Assignments

■ Specifications

Power Meter		Light Source			
Specification		Specification	Multi-mode	Single-mode	
Optical interface	MPO-12 Interface pinned. Compatible with 50/125 μm/PC Multimode MPO-12, 9/125 μm/APC Singlemode MPO-12. MTP Adapter with Shutter	Optical interface	MPO-12 Interface pinned, 50/125 μm/ PC Multimode. MTP Adapter with Shutter	MPO-12 Interface pinned, 9/125 μm/APC Singlemode. MTP Adapter with Shutter	
Detector type	InGaAs	Source type and wavelengths	LED source 850 nm ± 20 nm 1300 nm ± 20 nm	Fabry-Perot laser diode 1310 nm ± 20 nm 1550 nm ± 20 nm	
Wavelength range	850 to 1550nm	Spectral width (FWHM)	<170nm	<5nm	
Wavelength settings	850nm, 1300nm, 1310nm, 1550nm	Launch condition	Encircled Flux compliant to TIA-526-14 and IEC 61280-4-12		
Calibrated wavelengths	Multimode: 850nm, 1300nm Singlemode: 1310nm, 1550nm	Output power	-18 to -25 dBm	+2 to -5 dBm	
Power measurement range	-50 to +3 dBm	Stability ¹ 15 min/8 hr	±0.05 / 0.25 dB		
Max. permitted input level	+3 dBm	Source modes	CW, tone, auto-λ, multi-λ		
Overall measurement uncertainty ¹	Multimode: ± 0.7 dB ± 1 nW Singlemode: ± 0.6 dB ± 1 nW	Tone generator	270 Hz, 1 kHz, 2 kHz		
Linearity	±0.15dB	<ol style="list-style-type: none"> Single Channel, +5 to +45°C with $T = \pm 0.3$ K after a 20-minute warm-up At the output of the EF-TRC. Variations between EF measurement equipment may occur but EF compliance can be expected with a 95% confidence factor. Valid for IEC 61280-4-1 at 850 nm. 			
Measurement units	dB, dBm				
Display resolution	0.01 dB				
Power meter functions	Absolute, relative, pass/fail,				
Warm-up time	20 minutes				
1. Under reference conditions at calibrated wavelengths, -5 to +45°C.					
Tier 1			General		
Specification	Multi-mode	Single-Mode	Specification	without PCM	with PCM
Testing speed for 12 channels ¹	6 seconds max		Display	High-contrast 3.5" color LCD with touch-screen functionality	
Pass/fail limit standards	TIA 568.3, ISO 11801 and ISO/IEC 14763-3, link validation		Data memory	Up to 10,000 loss test results (>1000 including inspection)	
Fiber types	50/125 μm	9/125 μm	Data readout	Via client USB interface, and wireless via USB WiFi/Bluetooth adapter (option)	
Nominal test wavelengths	850/1300 nm	1310/1550 nm	Electrical interfaces	2 x USB host, 1x micro USB, Ethernet	
Maximum length measurement	1 km	10 km	Power supply	12 V, 2A with interchangeable wall plug for EU, UK, US, and AU	
Length measurement accuracy	±1.5 m ±1% of length		Battery	Li-ion pack 3.7 V, 20 Wh (optional 8 NiMH/dry batteries)	
Loss measurement uncertainty ^{2,3}	±0.15dB		Battery life (Li-ion battery pack)	>12 hr	
<ol style="list-style-type: none"> Excludes referencing and connection times Excluded fiber connector uncertainties. After 20 min warm up, at constant temperature, no charging. For multimode loss measurements with 50/125 μm fibers (NA = 0.20). For single-mode loss measurements with 9/125 μm fibers (NA = 0.10). 			Recommended recal. interval	3 years	

Patchcord Microscope (PCM)			Dimensions (H x W x D)	208 x 112 x 64 mm (8.2 x 4.4 x 2.5 in)	208 x 153 x 64 mm (8.2 x 6.0 x 2.5 in)
Specification			Weight	750 g (1.6 lb)	850 g (1.85 lb)
Optical interface	FMAE MPO (many other adapters available)		Operating temperature range	-5° to +45°C (23° to 113°F)	
Auto pass/fail analysis standards	IEC 61300-3-35 and custom limits		Storage temperature range	-25° to +55°C (-13° to 131°F)	
Live image	320 x 240 x 8 bit grey, 10 fps				
Light source	Blue LED, 100.000+ hours life				
Lighting technique	Coaxial				
Magnification field-of-view low/high	Horizontal	740/370 µm			
	Vertical	550/275 µm			
External USB connected P5000i digital inspection probe supported					