Test and Monitoring Solutions for Fiber to the Antenna (FTTA)

Fiber Inspection and Basic Optical Test

Fiber cleaning

VFL
Continuity and trace
Economy and basic

Fiber ID

Optical Power Meters (MP-60, PowerChek™, SmartPocket™)
Cell tower optical loss measurement

Inspect, pass/fail, and FiberChekPRO™
Base station kit

Inspect, clean, test, and certify
Pro tools cell tower kit

Fault Locator/OTDR/IL/ORL Testing

SLM and FTTA - SLM - Software Feature*

T-BERD®/MTS-2000 and SmartOTDR™ Kits
Handheld/hands-free modular test set for basic cell tower OTDR

FiberComplete™
Auto-bidirectional LTS/ORL+OTDR module for distributed cells and backhaul

T-BERD/MTS-4000
Multiple service test platform large-screen cell tower OTDR or OTDR/C-OSA combo

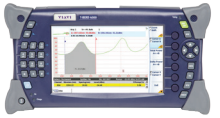
T-BERD/MTS-6000v2
Backhaul OTDR EVO, FiberComplete EVO (auto-bidirectional LTS+ORL+OTDR), and CWDM OTDR

*SLM + FTTA-SLM (Smart Link Mapper): Icon-based OTDR map view automatically detects elements

CWDM/DWDM Testing

OCC-5x
Optical channel checkers for CWDM/DWDM

T-BERD/MTS-2000
Handheld/hands-free CWDM OSA



T-BERD/MTS-4000
CWDM OSA

T-BERD/MTS-6000v2
Full-band OSA

Active Network Field Test

SmartClass™
Ethernet only (to GE)

HST-3000
Metro Ethernet and cell backhaul (to GE)

T-BERD/MTS-5800v2
Metro Ethernet, cell backhaul (to 10 GE), and CPRI/OBSAI

T-BERD/MTS-6000Av2
Metro Ethernet, backhaul (dual 10 GE), CPRI/OBSAI

Remote Test and Monitoring

QT-600
1 G/10 G Ethernet

ONMSi
Fiber backhaul remote test and monitoring

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Fiber Backhaul Tests Performed	Tool Category	FI-60	FFL-100 and FFL-050	P5000i	OLP-82	OLP-35, MP-60, and PowerChek	OLS-35	OCC-5x	T-BERD/MTS-2000	T-BERD/MTS-4000	SmartClass Ethernet	HST-3000	T-BERD/MTS-5800v2	T-BERD/MTS-6000A
Identify live fiber	Fiber identifier	■												
Inspect optical-connector end face	Video inspection scope			■	■				■	■		■	■	■
Inspect and pass/fail certify connector end face	Digital video inspection scope			■	■				■	■		■	■	■
Check continuity	VFL		■						■	■				■
Verify link length/locate break	OTDR/SLM								■	■				■
Loss/attenuation test	Loss test set				■	■	■		■	■		■		■
Identify splice and connector loss, macrobend, and reflectance	OTDR/SLM								■	■				■
Power-level measurements	Broadband power meter	■			■	■			■	■		■		■
CWDM/DWDM test	OSA/channel check							■	■	■				■
CPRI/OBSAI test	Layer 1/2												■	■
Ethernet test	Layers 1, 2, 3, 4										■	■	■	■

Macro Cell Tower and Distributed Cell Tests Performed	Tool Category	FI-60	FFL-100 and FFL-050	P5000i	OLP-82	OLP-35, MP-60, and PowerChek	OLS-35	OCC-5x	T-BERD/MTS-2000	T-BERD/MTS-4000	HST-3000	T-BERD/MTS-5800v2	T-BERD/MTS-6000A
Identify live fiber	Fiber identifier	■											
Inspect optical connector end face	Video inspection scope			■	■				■	■	■	■	■
Inspect and pass/fail certify connector end face	Video inspection scope			■	■				■	■	■	■	■
Check continuity	VFL		■						■	■			■
Verify link length/locate break	OTDR FTTA-SLM								■	■			■
Loss/attenuation test	Loss test set				■	■	■		■	■	■		■
Identify splice and connector loss, macrobend, and reflectance	OTDR FTTA-SLM								■	■			■
Power-level measurements	Broadband power meter	■			■	■			■	■	■		■
CWDM/DWDM test	OSA/channel check							■	■	■			■
CPRI/OBSAI test	Layer 1/2											■	■

FTTA and Mobile Backhaul Service Assurance and Monitoring	Tool Category	QT-600 Family	ONMSi
Metro-E (10 Mbps to 10 GE)	Remote Test and Monitor	■	
Mobile Backhaul (Ethernet)	Remote Test and Monitor	■	
Backhaul Monitoring (Fiber)	Remote Test and Monitor		■
Fronthaul Monitoring (Fiber)	Remote Test and Monitor		■

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