FTTc Network Testing Overview

MTS2K-FTTX-OTDR-BV

OLP-87-FTTC-BV

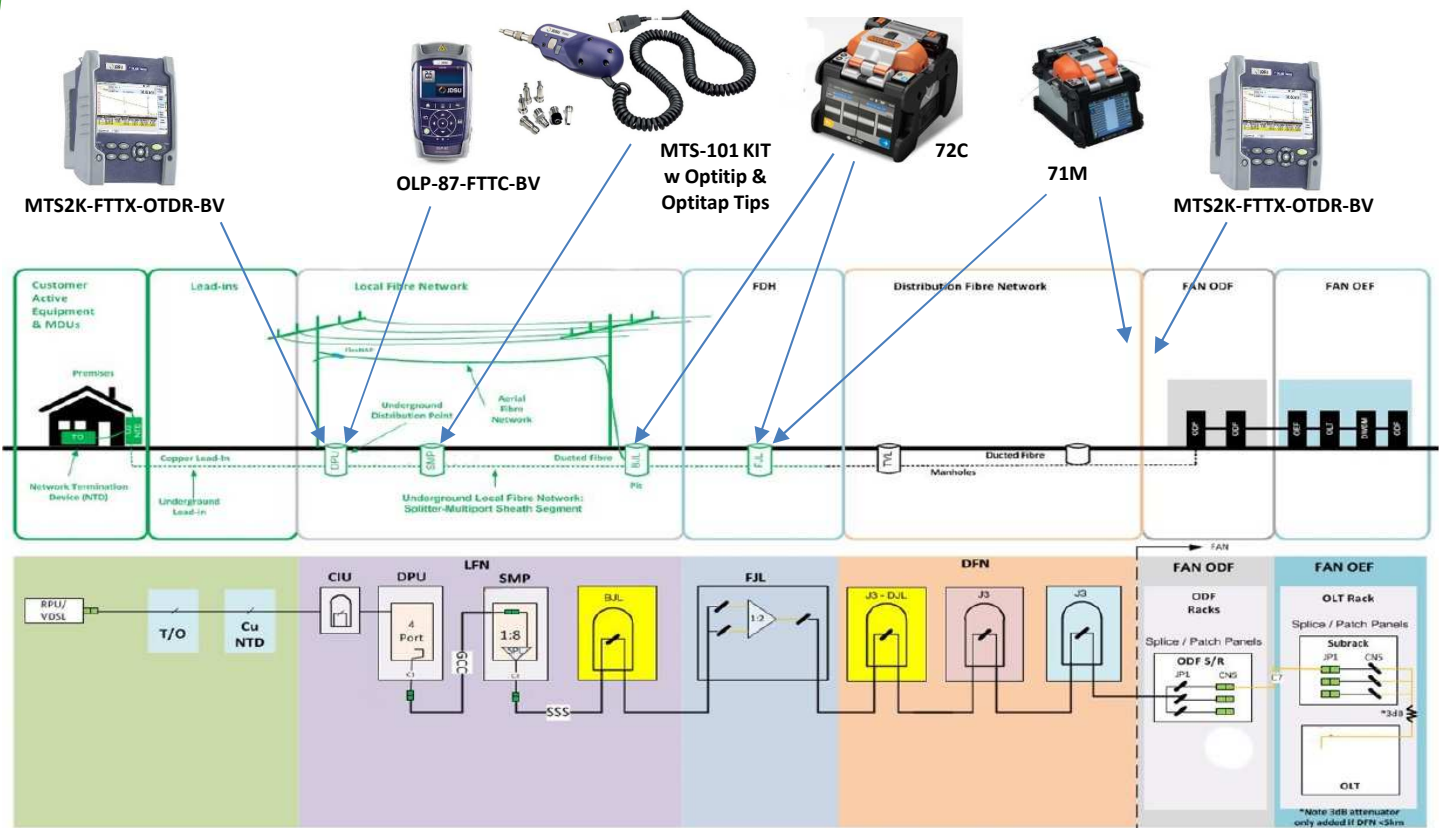**MTS-101 KIT w Optitip & Optitap Tips**

72C

71M

MTS2K-FTTX-OTDR-BV

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Testing the Fibre Network

THE OTDR that can be used on the Local Fibre Network & the Distribution Fibre Network

The Viavi MTS-2000 or MTS-4000 is the OTDR of choice for testing either the LFN of DFN network sections. With a dynamic range of 38dB and 40db this OTDR is powerful enough to be tested through the splitters.

VIAVI
formerly JDSU

Special Price FTTc Config 1310/1625nm

- Futureproof for use with Telstra: 1550nm can be ordered at a later date

- 1 Year Warranty (Additional 3 Year warranty can be purchased)

- Results can be stored as SOR or PDF

- Viavi P5000I Microscope can be used with the OTDR

- Light Source and Power Meter can be included on the module as an optional extra.

- MTS-4000 Mainframe has a spare slot for extra modules ie(Bi-directional testing / Ribbon Fibre Testing)

- Easy set up to take OTDR Trace as per NBN Doc

- Port Savers are stocked an optional accessory

OTDR's Available to Rent or Purchase

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Testing the Fibre Network

Before Activating the Network PON measurements but be taken.

A dedicated PON meter should be used for taking power measurements on the NBN Network. They must be equipped to measure 1490nm & 1550nm (Fibre TV) downstream and 1310nm upstream.

At TMG we have two excellent choices for you

The Viavi OLP-87 PON Meter

- 1490nm, 1550nm Downstream & Burst mode 1310nm Upstream
- Automated Pass/Fail Inspection Analysis with optional P5000i Microscope
- Up to 10,000 measurements storage
- Supports E-PON,G-PON, B-PON
- 3 Year Warranty
- Optional Re-chargeable Battery (Li ion) $150 + GST

The Kingfisher KI6102 PON Meter

- 1310 upstream 1490 & 1550 downstream
- Pass & Fail Display with multiple threshold

- 100 Test Memory
- Supports E-PON,G-PON, B-PON
- 1800 Hour run time from AA batteries with auto off
- External Software for downloading results and setting pass/fail
- 1 Year Warranty

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Protect your OTDR and PONMETER from damage with a TMG port saver

Fusion Splicing

Splicing is required at each Splitter in the LFN and DFN parts of the Network.

Weather you are splicing Ribbon Fibre in the DFN or the de-ribbonised Fibre in the LFN it is important to choose a splicer with high accuracy (Low Insertion Loss) and that is quick and easy to use. At TMG we recommend the Sumitomo Splicers, a world leader in Fusion Splicers with in country support in Australia.

Core Alignment Splicing Local Fibre Network

The Newly released Sumitomo 72C High Definition Core Alignment Splicer Kit

- Fast Splicing 5s / Heating 9s
- Splicing Loss 0.01dB (Typical)
- Dual Oven
- Long Life Battery (300 Splice & Heat Cycles)
- Proven field toughness
- Wireless LAN Connectivity to Sumitomo innovative sumicloud offering services such as support tools, remote lock function, splice data management data management services.
- 5"Touch Optimised user interface & High Resolution Screen LCD Display
- Size: 128(W) x 154(D) x 130(H) mm (without anti shock rubber)
- Only 2.2kg with battery fitted
- 3 Year Manufactures Warranty

Kit **Includes**
- Sumitomo Fusion Splicer Main Unit (Type-72C)
- Battery pack Li-ion 6400mAh (BU-16)
- Spare Electrodes (ER-10)
- Cooling Tray
- Hand strap
- AC Adaptor
- AC Power Cord
- USB Cable
- Operation CD manual
- Quick Reference Guide
- Carry Case
- Sumitomo Auto-Rotating Blade Single
- Fibre Cleaver (FC-6RS-C)
- Sumitomo Jacket Remover (JR-M03)

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Ribbon Splicing
Distribution Fibre Network

The Industry proven Sumitomo 71M Mass Ribbon Splicer Kit

- Splicing 14 S / Heating 55S
- Automatic Fibre Count System
- On Board Training Video's
- Selectable heater clamp modes
- Ribbon Holders 250um, 900um (Single) & 12f (Ribbon)
- Auto Clamping Adjustment System
- Dual Oven
- SD Data Storage
- Proven field toughness (Dust / Shock / Water proof resistant
- Size: 120(W) x 154(D) x 130(H) mm (without anti shock rubber)
- Only 2.0kg with battery fitted
- 3 Year Manufactures Warranty

Kit Includes

- Sumitomo Mass Fusion Splicer Maun Unit (Type-71M12)
- Battery pack Li-ion 11.1V 4600mAh (BU-11)
- Spare Electrodes (ER-10)
- FHS-025 Fibre Holder (0.25mm single fibre)
- FHS-09 Fibre Holder (0.9mm single fibre)
- FHM-12 Fibre Holder (12 Ribbon)
- Cooling Tray
- Hand strap
- AC Adaptor
- AC Power Cord
- USB Cable
- Operation CD manual
- Quick Reference Guide
- Carry Case
- Sumitomo Auto-Rotating Blade Single and Ribbon Cleaver (FC-6RS-C)
- Sumitomo Thermal Jacket Remover (JR-6)

Optional Fibre Holders Include

- FHD-1 For Drop and Indoor Cables
- FHC-3 For 3mm cable
- FHM-2 For 2 Fibre Ribbon
- FHM-4 Fore 4 Fibre Ribbon
- FHM-5 For 5 Fibre Ribbon
- FHM-6 For 6 Fibre Ribbon
- FHM-8 For 8 Fibre Ribbon
- FH-10 For 10 Fibre Ribbon

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au
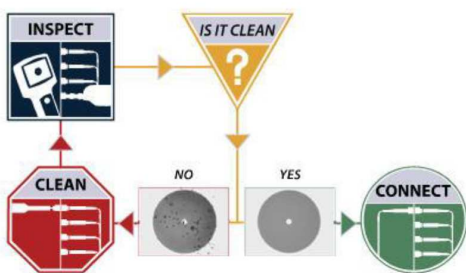
Fibre Inspection Scope

Viavi MTS-101 Kit

Containing
Patch Lead Tips: SC/APC, SCA, LC
Bulkhead Tips: SC/A, SC, PC, LC
Fibre Inspection Software
Compatible with OLP-87. MTS2k or
4K and android or IOS devices.

90 percent of faults in the fibre network are caused by bad connections. This could be caused by a bad splice or a contaminated connector. As per the NBN document NBN-TE-CTO-376. It is vital; that the female and male side of any fibre run are cleaned and inspected (however new or old the fibre or connector is) before mating together or irreversible damage is caused causing more time and money to resolve.

For FTTc. you will need to Inspect the Ribbon 12F Optitip and the Opti Tap Femaie / Male of the Bulkhead connector. As well as the single fibre SC/APC drop cable being terminated at the DPU.

Fibre Inspection Process

Tips for Opti Tip and Opti Tap Connectors

Viavi FBPT-COD-L
Opti Tip Inspection Tip

Viavi FBPT-COD-MTA
Opti Tap Inspection Tip

Opti Tip Connector

Opti Tap Connector

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Must Have Accessories

Opti Tap to SC/APC Patch Lead

Optitap
2SC/APC Connector

Traffic Identifier
Kingfisher KI6171

150 Meter Fibre Launch Lead

Visual Fault Locator
Kingfisher KI6354

Gas Analyser Kit
Honeywell Microclip XL KIt

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Pit Lid Locator
Radiodetection RD312

Fibre Consumables

Product	Price (exGST)
SC One Click Cleaner	$66.00
Opti Tap One Click Cleaner	$109.00
Opti Tip II One Click Cleaner	$134.00
Kim Wipes (Box 280)	$8.95
Isopropyl Pump Dispenser	$29.00
Cleaning Swabs (Pack 100)	$32.00
Stickler Cleaning Fluid	$28.00
Mediswabs Alcohol Wipes (Pack 200)	$34.00
Fibre Scrap Collector	$15.00
SC-APC Bulk Head Adaptor	$10.00
Stainless Steel Tweezers	$16.00
Kevlar Shears	$35.00
Bulk Head Adaptor (Qty 2)	$10.00

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

TMG Packages

Viavi OTDR and Inspection Scope

Order Code: TMG-FTTC-KIT1
Viavi MTS2K-FTTX-BV OTDR
Viavi MTS-101-BV OTDR
Viavi FBPT-COD-L Inspection Tip
Viavi FBPT-COD-MTS Inspection Tip
150 Meter Launch Lead
Optitap to SC/APC Connector
Optitap to SC/APC Patch Lead

Viavi OTDR and Inspection Scope

Order Code: TMG-FTTC-KIT2
Viavi MTS4K-FTTX-BV OTDR
Viavi MTS-101-BV OTDR
Viavi FBPT-COD-L Inspection Tip
Viavi FBPT-COD-MTS Inspection Tip
150 Meter Launch Lead
Optitap to SC/APC Connector
Optitap to SC/APC Patch Lead

TMG Ultimate Cleaning Kit

Order Code: TMG-FTTC-KIT3
SC One Click Cleaner
Optitip One Click Cleaner
Optitap II One Click Cleaner
Kim Wipes (Box 280)
Isopropyl Pump Dispenser)

TMG LFN Tech Complete Set Up

Order Code: TMG-FTTC-KIT4
Viavi MTS2K-FTTX-BV OTDR
Viavi MTS-101-BV OTDR
Viavi FBPT-COD-L Inspection Tip
Viavi FBPT-COD-MTS Inspection Tip
150 Meter Launch Lead
Optitap to SC/APC Connector
Optitap to SC/APC Patch Lead
Sumitomo 72C Fusion Splicer
Microclip XL Kit
SC One Click Cleaner
Optitip II One Click Cleaner
Optitap One Click Cleaner
Kim Wipes (Box 280)
Isopropyl Pump Dispenser
Cleaning Swabs (Pack 200)
Stickler Cleaning Fluid
Mediswabs Alcohol Wipes (Pack 200)
Fibre Scrap Collector
Stainless Steel Tweezers
Kevlar Shears

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

5 Reasons to Lease

1, Flexible 12,24,36,48 and 60 monthly terms.

2, No capital outlay means steady cash flow.

3, Tailored solutions support growing operations.

4, Ability to finance a single machine or equip your entire business.

5, Fully tax deductable.

Simple business finance

Why Lease

Fast and Easy
Fast approvals mean your assets make a difference to your business faster.

Conserve Cash Flow
Benefit from the efficiences new equipment can provide with low upfront costs.

Monthly Payments
Affordable fixed payment plans tailored to suit your businesses needs.

Tax-time Friendly
Payments for business equipment may be up to 100% tax deductible^.

See more benefits

^ Tax deductions may apply. FlexiCommercial does not provide legal, tax or accounting advice. See your tax advisor for details.

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au

Copper Essentials…

Tempo Digalert D361
- ADSL/VDSL Safe
- Rugged & Reliable

Teletech Loop-a-Line TX916 Kit
- Continuity Testing
- Pair Identification

Viavi ONX-TMG-BV
- Copper Fault finding
- VDSL Testing
- Rugged & Reliable

Wide Range of Tools & Safety

Genuine
3M E-9J Scotch Lock Tool
Crimp it once, crimp it right!

TMG Test Equipment
Your 'One-Stop-Shop'

Tel: 1800 680 680
Email: onestopshop@tmg.com.au
Web: www.tmg.com.au