

Optical Transmission Test

Agilent E6013A 3 Wavelength OTDR module for the Agilent E6000C Mini-OTDR

One connection, 3 wavelengths: All tested at once



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The E6013A 40dB class OTDR module, new to the E6000C Mini-OTDR series, is capable of qualifying 3 wavelengths (1310/1550/1625nm) with just one connection to the fiber under test. This solution shortens installation and maintenance cycles on Metro networks by more than 30% compared to previously used solutions.

Features

- All 3 wavelengths on one connection
- Identification of fiber bends due to additional 1625nm wavelength
- Built in Multi Fiber Test for fast processing
- Smallest, lightest OTDR in the world

Benefits

- Significant reduction of testing time
- Identifies fiber bends before signal loss or failure

Typical Characteristics

Typical Dynamic Range:

39dB @ 1310nm, 20ms

38dB @ 1550nm, 20ms

37dB @ 1625nm, 20ms

Typical Event deadzone: 3m

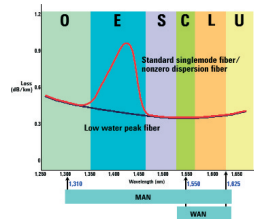
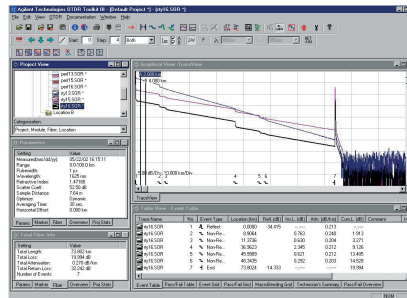
Minimum Sample Spacing: 8cm

For further details please see E6000C Mini OTDR Technical Data Sheet: P/N 5988-2302EN

Application

In Metro applications all three bands O, C and L are used for data transmission. Therefore the fiber link should be qualified for connector & splice loss, fiber attenuation, and total loss in all 3

transmission bands. Especially in the L Band (1625nm) region the fiber is more susceptible to bending. If a fiber exceeds its minimum bending radius, it can cause high signal loss or potentially result in a link failure. An OTDR trace comparison between 1310nm and 1625nm wavelength allows such fiber bends to be detected along with their location.



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Australia
1800 629 485

Austria
0820 87 44 11

Belgium
+32 (0) 2 404 9340

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+55 11 4197 3600

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877 894 4414

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800 810 0189

Denmark
+45 70 13 15 15

Finland
+358 (0) 10 855 2100

France
+33 (0) 825 010 700

Germany
+49 (0) 1805 24 6333

Hong Kong
800 930 871

India
1600 112 929

Ireland
+353 (0)1 890 924 204

Israel
+972 3 6892 500

Italy
+39 (0)2 9260 8484

Japan
0120 421 345

Luxembourg
+32 (0) 2 404 9340

Malaysia
1800 888 848

Mexico
+52 55 5081 9469

Netherlands
+31 (0) 20 547 2111

Philippines
1800 1651 0170

Russia
+7 095 797 3963

Singapore
1800 375 8100

South Korea
080 769 0800

Spain
+34 91 631 3300

Sweden
0200 88 22 55

Switzerland-Italian
0800 80 5353

Switzerland-German
0800 80 5353

Switzerland-French
0800 80 5353

Taiwan
0800 047 866

Thailand
0800 226 008

United Kingdom
+44 (0) 7004 666666

USA
800 452 4844



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