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WireXpert Series

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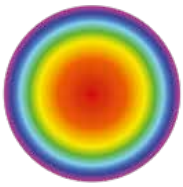
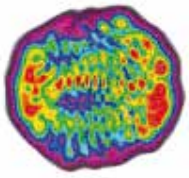
# Multimode EF Adapters

Using a light source and power meter, the attenuation and length of fiber optic cabling are measured at 850 and 1300 nm.

The certification of multimode fibers has often proven to be problematic due to the associated uncertainties in the measurement process. ISO/IEC and TIA have therefore adopted an Encircled Flux (EF) standard that defines the excitation conditions for the light sources used in multimode measuring devices.
With the EF-compliant adapters from WireXpert, you receive guaranteed conformity with EF standard IEC 61280-4-1.
This eliminates the additional purchase of special costly cables required by other devices to make them EF compliant.



EF-compliant light source of the WireXpert



Non-compliant light source of another certifier

The „Encircled Flux" multimode adapters are used for fully standard-compliant certification of multimode cabling with OM1 to OM4 fibers at 850 and 1300 nm.
The TX side of the adapter is equipped with FC connectors and the RX side of the adapter is equipped with interchangeable connectors to test SC and LC cabling.
The standard kit is supplied with SC connectors. LC cables and adapter kits are available for measurement in LC cabling.

## FEATURES

- Compliant with EF standard IEC-61280-4-1 and standard IEC-14763-3
- Rugged, interchangeable SC, LC and ST adapters for the EF kit
- Improves the reproducibility of the measurements
- Reduces the variance when measuring insertion loss between laboratory and field measuring devices
- Troubleshooting using the built-in Visual Fault Locator (VFL)
- Validates glass fibers from different manufacturers with different mode behavior

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## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Input connector | Interchangeable adapter available for LC, ST and SC. Standard kit includes SC |
| Detector type | InGaAs |
| Wavelengths | 850nm, 1300nm |
| Power measurement range | -15dBm to -60dBm at 850nm, -15dBm to -70dBm at 1300nm |
| Measurement linearity | <±0.1dB in the specified power range |
| Calibration period | 1 year |
| **Loss/Length specification** | |
| Specification | MMEF |
| Input connector | Interchangeable adapter available for LC, SC and ST |
| Excitation condition | Encircled Flux-compliant with IEC 61280-4-1 |
| Types of fibers to be tested | 50/125, 62.5/125 |
| Source type/Wavelength | 850/1300nm |
| Accuracy of length measurement | ±1.5m |
| Output power (nominal) | >-22dBm at 850, 1300nm |
| Output power stability | ±0.02dB after 3 minute warm-up time |
| **Visual fault locater (VFL)** | |
| Output power | <0dBm, continuous, flashing mode, CW output, SC connector |
| Wavelength | 650nm |
| Output mode | Pulsed, continuous |
| Connection | 2.5mm (also 1.25mm with adapter) |
| Laser safety class | Class II |
| **Environmental conditions** | |
| Operating temperature | 0°C to 45°C |
| Storage temperature | -20°C to 50°C |
| Safety regulation | EN61010 |

Kit 228079

## ORDERING INFORMATION

| Article number | 228079 |
|---|---|

**Multimode fiber optic measurement module for certification testing in duplex fibers at 850/1300 nm**
**Contains**:
2 Encircled Flux modules
2 mode-transparent test cables (FC-SC)
2 duplex reference test cables (SC-SC)
1 cleaning set, 1 duplex coupling (SC/SC)

| Article number | 228089 |
|---|---|

**LC test cable kit for Encircled Flux-compatible multimode adapters**
**Contains**:
2 mode-transparent test cables (FC-LC)
2 simplex reference test cables (LC-LC)
2 interchangeable measurement ports (LC)
2 duplex couplings (LC-LC)

| Article number | 228088 |
|---|---|

**Reference test cable**
**Contains**:
2 mode-transparent FC-SC reference test cables
2 duplex SC-SC reference test cables

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For more information please contact:



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