



Fiber

Verifiers	Qualifiers	Certifiers	
VFL 5000 	NetXpert XG 	WireXpert 500/500plus/4500 	FiberXpert OTDR 5000 

Item number	VFL 5000: 226540 VFL 5000 Kit: 226546	10G: 226552 1G: 226554	500: 228071 500plus: 228114 4500: 228070	Quad Multi-/Single-mode: 226534 Multi-mode: 226535 Quad Pro Kit: 226547
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Application				
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TYPICAL AREAS OF APPLICATIONS

IP tests				
Cabling test according to IEEE				
Measurement according to cabling standard				

WAVELENGTHS

Red light (635nm)				(Multi-mode version)
Multi-mode (850/1300nm)				
Single-mode (1310/1550nm)				

MEASUREMENT ACCORDING TO CABLING STANDARDS

ISO/IEC 11801 (International)				
EN 50173 (Europe)				
ANSI/TIA 568 (America)				

TEST OF PASSIVE CABLING ACCORDING TO IEEE STANDARDS

1Gbit/s Gigabit Ethernet IEEE 802.3ab				
10Gbit/s 10GBASE-T IEEE 802.3an				

PASSIVE TEST PARAMETERS

Fiber identification				(Multi-mode version)
Attenuation measurement				
Length measurement				
Event localization				
Video microscopy				
Bit error rate test (BERT)				

ACTIVE TEST PARAMETERS

Activation of port LED				
Ethernet detection and display of the transmission rate				
DHCP test				
Ping test				
Discovery function (LLDP, CDP, NDP)				
VLAN detection				
Traceroute (packet tracking)				

REPORTING

PDF report in the device				
eXport Software				
Private cloud connection				



Bring your network up to full speed

Fiber optic cables not only offer high data throughput, but also security against eavesdropping and interference resistance. Fiber optic cables can thus easily be laid in parallel with other supply lines - electromagnetic interference does not occur. The disadvantage of fiber optic cabling is the cost. They are more expensive than copper cables, but feature considerably lower attenuation and are therefore suitable for long distances. Fiber optics are increasingly being installed nowadays even for short distances in LANs. Particularly when measuring and documenting optical networks, the measurement technology required for this must be of high quality and future-proof.

FIBER OPTIC CERTIFIERS



OTDRs are part of the standard equipment of a fiber optic technician for gaging distances and creating test protocols. This is where the compact FiberXpert OTDR 5000 for single-mode and multi-mode fibers comes in. The high resolution of the fiber optics certifier with one of the smallest dead zones on the market provides standard-compliant measurements even from short distances in sub-networks. With an event dead zone of < 80cm, the FiberXpert OTDR 5000 does not miss even successions of connectors or manual splices, and automatic analysis functions make evaluation easier.

The WireXpert 4500 certifier measures and certifies the length and attenuation of SM fibers (1310 and 1550nm) and MM fibers (850 and 1300nm) via exchangeable measuring adapters in compliance with standard specifications. Network certification, in particular the certification of fiber optic networks, always depends on the requirements of the devices to be used later in the network. The range of applications is growing, and the permissible attenuation values are steadily decreasing. As a result, standards are constantly being rewritten to meet ever-increasing speeds. The WireXpert series takes this trend into account as it is future-proof and upgradeable.



FIBER OPTIC QUALIFIERS

Modern fiber optic qualifiers such as the NetXpert series create a cost-effective option for checking fiber optic distances of up to 10Gbit/s. In addition, the devices offer comprehensive diagnosis of the active Ethernet network. The devices can be used extremely flexibly with the application of SFP or SFP+ modules.

FIBER OPTIC VERIFIERS

An optical error detector is used for continuity testing and fault location on optical fibers and components in the single-mode and multi-mode range. With its compact design, the VFL 5000 is ideal for everyday use in all fiber optic applications, e.g. outdoors, in industrial environments as well as in laboratories.

