



**Copper**

	Verifiers				Qualifiers	Certifiers
	CableMaster 200	CableMaster 500/550	CableMaster 600/650	CableMaster 800/850	NetXpert XG	WireXpert 500/500plus/4500
Item number	226504	500: 226512 550: 226580	600: 226515 650: 226516	800: 226520 850: 226521	10G: 226552 2.5/5G: 226553 1G: 226554	500: 228071 500plus: 228114 4500: 228070
Application						

**TYPICAL AREAS OF APPLICATIONS**

Proper wire termination						
PoE and IP tests						
Cabling test according to IEEE						
Measurement according to cabling standard						

**MEASUREMENT ACCORDING TO CABLING STANDARDS**

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

**TEST OF PASSIVE CABLING ACCORDING TO IEEE STANDARDS**

100Mbit/s Fast Ethernet IEEE 802.3u						
1Gbit/s Gigabit Ethernet IEEE 802.3ab						
2.5/5Gbit/s NBASE-T IEEE 802.3bz						
10Gbit/s 10GBASE-T IEEE 802.3an						

**PoE MEASUREMENT ACCORDING TO IEEE**

IEEE 802.3af PoE 12.95W						
IEEE 802.3at PoE 25.5W						
IEEE 802.3bt PoE 90W						

**PASSIVE TEST AND MEASUREMENT PARAMETERS**

Wiremap (i.e shorts, opens, reverse, miswires, split pairs)						
Tone generator						
Length measurement						
Bit error rate test (BERT)						
Signal to noise ration (SNR)						
Delay skew						
DCRU						
HF measurement (NEXT, insertion loss, return loss)						
Measuring frequency up to 2,500MHz						(WireXpert 4500)

**ACTIVE TEST PARAMETERS**

Activation of port LED						
Ethernet detection and display of the transmission rate			Up to 1Gbit/s	Up to 1Gbit/s	Up to 10Gbit/s	
DHCP test						
Ping test						
Discovery function (LLDP, CDP, NDP)						
VLAN detection						
Traceroute (packet tracking)						

**REPORTING**

PC reporting software						
PDF reports in the device						
eXport Software						
Private cloud connection						



Copper

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# Bring your network up to full speed



## COPPER CERTIFIERS

New technologies such as SmartHomes or the Internet of Things increase the need for even more bandwidth and higher rates of transmission. The development of data transmission via copper is therefore continuing and high transmission speeds will be feasible in the future. By 2010, the WireXpert cabling certifier was the first measurement device in the market up to category 8, and it supported a test range of up to 2,500MHz. Networks that can deliver this performance on copper cables require a clean infrastructure and stable installations. For installers, this also means that new installations must be sufficiently certified and documented. For existing networks, it is important to examine and verify that migration to higher speeds is possible.

Not all cabling certifiers are equivalent when it comes to the functionality of local and remote devices. Normally, there is a combination of intelligent and non-intelligent devices. Our local and remote devices from the WireXpert series are virtually identical. This makes it possible for a single person to do the work much faster and easier. Regardless of the situation on-site, the interchangeability of the devices always gives technicians the chance to save time. Another aspect to be considered are the replacement costs: Our adapters are equipped with modular ports, separate test cables are included with delivery. If a connector fails, all you need is a new set of test cables.

## COPPER QUALIFIERS

The technology of data transmission over copper cables is far from exhausted. However, the new technologies require a higher quality of cabling. To ensure that the existing cabling can support the higher data rates, appropriate tests must be carried out and documented before commissioning. In addition, existing networks must be qualified for upgradeability. In the environment of the latest generation of qualifiers, tests up to 10Gbit/s are already possible, regardless of the cable category or the junction boxes.



## COPPER CABLE TESTERS AND VERIFIERS

The first choice as a medium for telephone, data and video lines continues to be copper. More than ever, the material is used worldwide for the infrastructure of short-distance communication networks. The tendency is rising, because the port price continues to prove to be cheaper compared to fiber optic technology (FO), and new technologies, such as Power over Ethernet (PoE), can only be realized on metallic conductors. The variety of cable testers on the market today offers the right device for any application. Before buying, however, you should be clear about what exactly the tester is used for. The simplest devices only test the wiremap (i.e. shorts, opens, reverse, miswires, split pairs). However, if you want to carry out further measurements on insulation resistance, wave resistance or channel capacity, you must resort to a high-quality line tester. Different measuring tools are required even for simple cable installation in the house for video, telephone and data cables; the tools are designed according to the application.



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