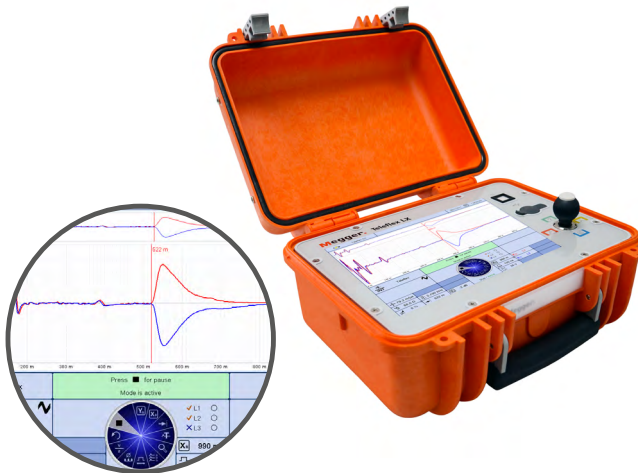


Teleflex LX

Portable reflectometer for power cables



- **Direct core comparison using 2 measurement inputs**
- **High resolution over long and short distances**
- **Automatic range setting, cursor, display, cable end and fault position**
- **Easy operation using rotary selector and touch display**
- **Separation filter for live measurements in the low voltage network**
- **Li-ion battery for long operating times**
- **Trigger input for combined use with intelligent fuse systems**

DESCRIPTION

The Teleflex LX is a compact, battery operated and powerful reflectometer for fault location and length measurement in metallic telecommunication and power cables. Many useful functions, such as automatic fault location detection, make extremely accurate measurement results possible. Because of its high resolution, precision measuring scheme and distance-dependent compensation of the cable attenuation (ProRange), measurements can be carried out on short cables and also long cables up to 160 km in length. The 10.4 inch display provides a clear and bright display, of the results.

With the aid of the intuitive menu structure, easy control using the Jogdial (rotary selector) and the touch screen, both inexperienced users and experts quickly learn how to use the system.

All measurements that are carried out are automatically stored in the device. The data can either be stored as PDF files on a USB stick or transferred using the optionally available MeggerBook Cable database software. The Linux operating system is the guarantee of optimum reliability and system stability for any application.

The additional trigger input makes it possible to combine the Teleflex LX with external devices and locate cable faults in NS networks.

As 'with the aid of' has the optional TF-VX separation filter, measurements can be carried out on low voltage cables up to 600 V (CAT IV).

ALL THE BENEFITS AT A GLANCE

- Large 10.4 inch sunlight compatible colour display
- Very easy to operate using intuitive menus and touchscreen
- On-screen keyboard for text entry
- Fully-automatic display of cable end and fault position
- Battery operation

TECHNICAL DATA

Teleflex LX

Distance range	20 m–160 km at $v/2 = 80 \text{ m}/\mu\text{s}$
Pulse width	20 ns–10 μs
Pulse amplitude	10–50 V
Resolution	0.1 m at $v/2 = 80 \text{ m}/\mu\text{s}$, 1.0 cm at $v/2 < 40 \text{ m}/\mu\text{s}$
Sampling rate	Up to 400 MHz (real sampling rate)
Amplification:	-37 to +37 db
De-attenuation	0 to +22 dB for ProRange (adjustable from 0 to 100%)
Transit time setting $v/2$	10 to 149.9 $\text{m}/\mu\text{s}$, $\text{ft}/\mu\text{s}$ or nv
Dynamic response range	> 80 dB
Output impedance	50 Ω
Adjustment	8 Ω to 500 Ω , adjustable
Blind spot	No
Withstand voltage	< 400 V, (with opt. separation filter)
Display	10.4" colour TFT XGA 1024 x 768, capacitive touchscreen, 600 cd/m^2 , LED backlight, dimmable
Memory	4 GB mSATA for program and data
Connections	Ethernet, USB, BNC, (2 measurement outputs)
Protection class	IP 65 enclosed, IP 54 open
Supply	Battery operation, 110–240 V, 50/60 Hz, 30 VA, 10 V–17 V DC,
Battery life	3.8 A 4 hours
Dimensions (W x H x D)	362 x 195 x 195 mm
Weight	10 kg
Operating temperature	-10 °C to +50 °C
Storage temperature	-20 °C to +60 °C



Fig.: TF-VX separation filter

FUNCTIONS

- ProRange for optimised display of remote details
- Two-phase reflectometer with display of up to 6 measurement curves
- High resolution with fast sampling rate of 400 MHz
- Internal compensation for excellent display at close range
- 2 GB of memory for more than 1000 measurements
- USB port for transferring data and printing
- Automatic storage of all measurement data
- Test reports in PDF format
- Many languages available

THE TELEFLEX LX SUPPORTS THE FOLLOWING TECHNOLOGIES:

- Symmetrical/asymmetrical reflection measurement
- Difference measurement/comparison
- Two-phase reflection measurement (TDR)

ORDERING INFORMATION	
Product	Order no.
Teleflex LX Set incl. Teleflex LX reflectometer, backpack, charger, connecting cables	1009543
Options	
TF-VX separation filter CAT IV 600 V incl. fuse-protected crocodile clips and cable set	1010520
MeggerBook Cable database software for Windows PC	2010273

We reserve the right to make technical changes.

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