LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

A LANscape® Solutions Product

features and benefits |

High output power and calibrated wavelengths	Unparalleled performance
Rugged handheld design	Endure harsh testing environments
Product warranty and calibration interval	Reduced ownership cost
Packaged as test kits	Test "right out of the box"

The Corning Cable Systems LTK-400 Series offers a complete, cost-effective solution for link-loss testing of both multimode and single-mode systems for those users who do not require data storage capabilities. Designed for testing and troubleshooting of local area networks and other multimode and single-mode optical fiber cable systems, the LTK offers unparalleled performance by combining a source that has one of the highest output powers in the industry with a meter that has 10 calibrated wavelengths from 830 nm to 1625 nm. The automatic wavelength detection mode allows the power meter to automatically detect/switch to the wavelength being transmitted by the source and has automatic offset nulling under normal temperature and humidity conditions.

(continued)

LTK-400 Series Light Source and Power Meter
| Photo LAN784

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LTK-400 Series Test Kit | Photo LAN786

Both the source and meter have field-interchangeable port adapters and can be powered by standard AA alkaline batteries or by the supplied AC power adapters. The rugged handheld design can withstand the harshest testing environments while the product warranty and recommended three-year calibration interval result in reduced ownership cost.

The LTK-400 Series meter and sources are sold individually or packaged as test kits. These test kits include everything needed to test "right out of the box" including the following:
• OS-400 series source and OM-410 meter
• SC and ST® Compatible source and meter adapters
• SC and ST Compatible jumpers
• SC and ST Compatible adapters
• 62.5 µm and 50 µm test mandrels
• Alkaline batteries and AC power supplies
• Cleaning supplies in a storage case
• Padded carrying case and user's manual

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

specifications |

Power Meter[1]

Model Number	OM-410
Power Meter Port	Ge
Power Range[2]	10 to -60 dBm
Number of Calibrated Wavelengths[3]	10
Power Uncertainty[4]	± 5% ± 1 nW
Resolution[5]	0.01 dB
Automatic Offset Nulling[6]	Yes
Warmup Time[7]	None
Display Units	dB/dBm/W
Automatic Wavelength Recognition[8]	Yes

[1]Specifications are guaranteed at 23ºC ± 1ºC.
[2]In CW mode; sensitivity defined as 6 x RMS noise level.
[3]Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm and 1625 nm.
[4]Traceable to NIST.
[5]From 10 dBm to -50 dBm.
[6]Power of > -40 dBm.
[7]For ± 0.05 dB and temperatures of > 18ºC.
[8]At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm for power of > -50 dBm.

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

specifications | (continued)

Power Meter[1] (continued)

Model Number	OM-410
Screen Refresh Rate	3 Hz
Tone Detection	270 Hz, 1 kHz, 2 kHz
Battery Life Typical	300 hours
Warranty and Calibration Interval	3 years
Size (H x W x D)	18.5 x 10.0 x 5.5 cm (7.25 x 4 x 2.125 in)
Weight	0.4 kg (0.9 lb)
Operating Temperature	-10º to +50ºC (+14º to +122ºF)
Storage Temperature	-40º to +70ºC (-40º to +158ºF)
Relative Humidity	0% to 95% non-condensing

[1]*Specifications are guaranteed at 23ºC ± 1ºC.*

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

specifications | (continued)

Optical Source[1]

Model Number	OM-403D OS-4MDSD	OS-404XD OS-4MDSD
Central Wavelengths	850 ± 25 nm 1300 -10/+50 nm	1310 ± 20 nm 1550 ± 20 nm
Spectral Width[2]	50 nm (850 nm) 135 nm (1300 nm)	≤ 5 nm (1310 nm) ≤ 5 nm (1550 nm)
Output Power[3]	≥ -20 dBm (850 nm) ≥ -20 dBm (1300 nm)	≥ 1 dBm (1310 nm) ≥ 1 dBm (1550 nm)
Power Stability[4]	± 0.10 dB	± 0.10 dB
Battery Life[5]	120 hours	120 hours
Automatic Wavelength Recognition	Yes	Yes
Tone Detection	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz
Warranty and Calibration Interval	3 years	3 years
Size (H x W x D)	18.5 x 10.0 x 5.5 cm (7.25 x 4 x 2.125 in)	
Weight	0.4 kg (0.9 lb)	
Operating Temperature	-10º to +50ºC (+14º to +122ºF)	
Storage Temperature	-40º to +70ºC (-40º to +158ºF)	
Relative Humidity	0% to 95% non-condensing	
Safety	Class 1M Laser Product	

[1]Specifications are guaranteed at 23ºC ± 1ºC.
[2]RMS for lasers and -3 dB width for LEDs; typical values for LEDs.
[3]LED output power is specified with 62.5 μm fiber. 50 micron coupled power would be lower.
[4]After 15 minutes warm-up; expressed as ± half the difference between the maximum and minimum values during the 8-hour period.
[5] Typical autonomy in auto mode.

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

ordering information |

Part Number	Description
Power Meter	
OM-410	Optical Power Meter without data storage; (1) SC meter port adapter, (1) ST® Compatible meter port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries
Light Source	
OS-403D	Multimode Optical Source with 850/1300 nm LED; (1) SC source port adapter, (1) ST Compatible source port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries
OS-404XD	Single-Mode Optical Source with 1310/1550 nm Laser; (1) SC source port adapter, (1) ST Compatible source port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries
OS-4MDSD	Quad Optical Source with 850/1300 nm LED and 1310/1550 nm Laser; (2) SC source port adapter, (1) ST Compatible source port adapter, (1) AC adapter, (1) wrist strap, manual and AA alkaline batteries
Test Kits with Source and Meter	
LTK-400MD	Multimode Loss Test Kit including OS-403D source (850/1300 nm LED) and OM-410 meter (no data storage), AA batteries for both units, (2) AC power supplies, SC and ST Compatible jumpers and adapters for MM, manual,(1) SC source port adapter, (1) ST Compatible source port adapter, (1) SC meter port adapter, (1) ST Compatible meter port adapter, (2) wrist straps, plastic case of cleaning supplies and padded carrying case
LTK-400SD	Single-Mode Loss Test Kit including OS-404XD source (1310/1550 nm laser) and OM-410 meter (no data storage), AA batteries for both units, (2) AC power supplies, SC and ST Compatible jumpers and adapters for SM, manual, (1) SC source port adapter, (1) ST Compatible source port adapter, (1) SC meter port adapter, (1) ST Compatible meter port adapter, (2) wrist straps, plastic case of cleaning supplies and padded carrying case
LTK-4MDSD	Quad Multimode and Single-Mode Loss Test Kit including OS-4MDSD (850/1300 nm LED) and (1310/1550 nm laser) source and OM-410 meter (no data storage), AA batteries for both units, (2) AC power supplies, SC and ST Compatible jumpers and adapters for both MM and SM, manual, (2) SC source ports adapter, (1) ST Compatible source port adapter, (1) SC meter port adapter, (1) ST Compatible meter port adapter, (2) wrist straps, plastic case of cleaning supplies and padded carrying case
Accessories	
UI-SC	Universal Interface Source Connector Adapter, SC
UI-ST	Universal Interface Source Connector Adapter, ST® Compatible
UI-FC	Universal Interface Source Connector Adapter, FC

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LTK-400 Series Optical Sources, Meters and Kits Without Data Storage Capabilities

ordering information | (continued)

Part Number	Description
Accessories	
OA-SC	Power Meter Connector Adapter, SC
OA-ST	Power Meter Connector Adapter, ST Compatible
OA-FC	Power Meter Connector Adapter, FC
OA-LC	Power Meter Connector Adapter, LC
OA-MTRJ	Power Meter Connector Adapter, MT-RJ
PS-9-1	AC Power Adapter for 400 Series source or meter
CASE-HH-400	Hard-Shell Transit Case for (2) 400 Series instruments and accessories (17.25 x 11.25 x 7 in; 8 lb)
CASE-STD-400	Padded Carrying Case for (2) 400 Series instruments and accessories
OTS-COMBOMAN	Set of Mandrels for 50 µm and 62.5 µm multimode fiber
TJK-0339-62-KIT	Test Jumper Kit includes all the jumpers, adapters and meter port adapter needed to test 62.5 µm multimode fiber with LC connectors; comes with a storage case and assumes an SC port on the source
TJK-0258-SM-KIT	Test Jumper Kit includes all the jumpers, adapters and meter port adapter needed to test single-mode fiber with LC connectors; comes with a storage case and assumes an SC port on the source
TJK-9739-62-KIT	Test Jumper Kit includes all the jumpers, adapters and meter port adapter needed to test 62.5 µm multimode fiber with MT-RJ connectors; comes with a storage case and assumes an SC port on the source
TJK-9858-SM-KIT	Test Jumper Kit includes all the jumpers, adapters, and meter port adapter needed to test single-mode fiber with MT-RJ connectors; comes with a storage case and assumes an SC port on the source

Note: Other test jumper kits (TJK) configurations are available. Please contact Corning Cable Systems Customer Service Representative for more information.

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