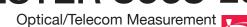


LAN CABLE HITESTER 3665-20





Network Construction with One Single Instrument







Wiremap

Detect Split Pairs with Wiring Check

Cable-Length

Get NVP-Enhanced Measurement Accuracy

Direction

Identify Up to 21 Cable Destinations









Intuitive

• • • • •

• • • •

•

• • • •

•

• • • •

•

• • •

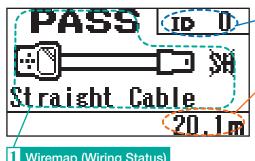
Extremely Just connect a cable, and press the TEST button



Wide **LCD** Screen

Check all parameters such as wiremap, direction and cable length at a glance.





2 Direction (ID No.)

Identify the terminator ID here.

3 Cable Length

Obtain a record of the entire length of the cable, or up to the point where the cable is damaged.

Super-

sensitive

Detection

Wiremap (Wiring Status)

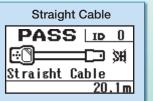
Large PASS/FAIL display, cable type, reason for cable failure and shield condition.

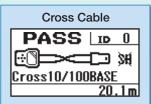
wirema o

For wiring confirmation and locating broken wires after installation. Quick PASS/FAIL reading helps you complete your work faster.

PASS Display Examples

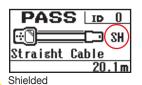
Both straight-through and crossover cables (10/100BASE, 1000BASE-T and 1000BASE-TX) can be checked.

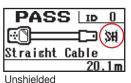




Fully Compatible to **CAT6** LAN Cables

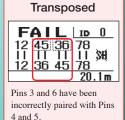
Detect the existence of shields or check for shield integrity.



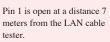


Display Examples











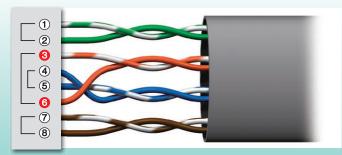
Pins 1 and 2 are shorted at a distance 10 meters from the LAN cable tester.

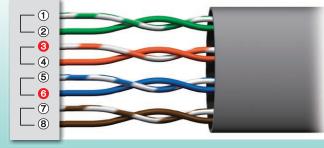


A very common mistake - twist pairs Pins 3+6, and Pins 4+5, have been incorrectly connected

Caution!

Can you find **Split pairs?**







Proper Wiring

LAN cable wires should be connected as shown in the diagram above, such that Pins 3 and 6 are twisted.



Split Pair

A "Split Pair" is detected when Pins 3 and 6 are not twisted and paired together as shown above.

Direction

•

• • • •

•

•

•

• •

•

• • • •

•

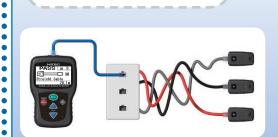
•

• • • •

Locate up to 21 unique cable destinations.

Have you ever had trouble installing additional cables?





Take advantage of the conveniences offered by the tester's capabilities to check wiring while confirming multiple cable destinations.



You will never need to go back and forth again just to change the terminators.

Up to 21 terminators can be connected (additional terminators sold separately.) Convenient for confirming the connection destinations of multiple cables.

Increased

Precision!

Cable Length

Measure for cable length and detect the location of broken or short-circuited wires.

The NVP*setting is a cable-length compensation function that enhances the accuracy of cable length measurements.

Accuracy with NVP activated:

■ ± 4% rdg. ± 1m

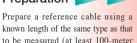
(vs.previous HIOKI model: 15% rdg. ±1m)



* NVP (Nominal Velocity of Propagation) is the ratio of the speed of a signal in the cable relative to the speed of light in a vacuum. NVP differs according to the type of cable and the manner in which the wire pairs are twisted, so measurement accuracy can be enhanced by setting the NVP value for the particular type of cable to be measured.

■ Activating the NVP function is as simple as 1-2-3

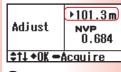




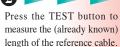
length recommended).

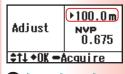


On the Settings screen, select "Length Adjust".

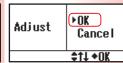








Calibrate the display to the measured reference cable.





= How Can Split Pairs Affect the Network? ===

- ◆ Communication speed can be suppressed 100BASE signals may reach only 10BASE speeds.
- Excessive communication errors data transfer may be intermittent or completely inhibited.
- Cables miswired in this way are more susceptible to electrical noise.

Split pairs appear to be properly connected to the untrained eye, and cannot be detected with continuity testing.



To properly check LAN cable wiring, a tester capable of detecting split pairs is indispensable.



The HIOKI 3665-20 can do the job for you properly and accurately by also detecting split pairs.

Specifications (@ 23 ±5 °C, 80 % RH or less, non-condensating, with battery indicator unlit)

Measurable cables	Twisted-pair cable
	100 Ω characteristic impedance, shielded and unshielded, CAT 3, 4, 5, 5e and 6
Compatible connectors	RJ-45 plugs
Measurement Items	
[Wiremap]	Wiring condition and shielding can be confirmed using the HIOKI TERMINATOR 9690
	Detectable errors: open, short, reversed, transposed, split pairs and other miswiring
[Cable Length]	Measurable lengths: 2 to 300 m, 6.6 to 984 ft
	Measurement accuracy: ±4% rdg. ±1 m, ±4% rdg. ±3.3 ft
	Display resolution: 0.1 m
[Destination]	Up to 21 cables can be identified using the supplied TERMINATOR 9690 and optional Models 9690-01 to
	9690-04 to test multiple cables simultaneously
Display	128×64 dot matrix LCD (with backlight)
Functions	Auto Backlight: pressing a button turns the backlight on (it turns off automatically after about 20 seconds)
	Beeper: sounds when pressing buttons and when measurement results are displayed
	Energy-Saving Mode: enter into energy-saving mode after measurement (and resume when the TEST button is pressed)
	Auto Power Save: the 3665-20 turns off automatically about 10 minutes after the last button press
	Battery Check: Battery indicator blinks when voltage falls below 2.4 V
	Unit Switch: Select between meters or feet
Compliance	Safety Standard: EN61010-1:2001 Pollution Level 2
Standards	EMC Standard: EN61326:1997 + A1:1998 + A2:2001 + A3:2003
Allowable Input	3.3 V peak (between RJ-45 pins)
Operating Temperature & Humidity	01 111 011
Storage Temperature & Humidity	-10 to 50 °C, 80% RH or less, non-condensating
Power Source	Two AA-size (LR6) alkaline batteries
Maximum Power Consumption	1.4 VA
Operating Time	Approx. 50 hours (measuring once per minute)
Size & Weight	Approx. 85 W × 130 H × 33 D mm, approx. 160 g
	HELP
LAN CARLE LITECTER 2665 on	
LAN CABLE HITESTER 3665-20	

AN CABLE HITESTER **3003-**20

(Includes TERMINATOR 9690, CARRYING CASE)

■ Supplied Accessories _

TERMINATOR 9690 CARRYING CASE

(Stores the HiTESTER 3665 and TERMINATORs 9690)



TERMINATOR 9690



CARRYING CASE

■ Options _

TERMINATOR 9690-01 (IDs 1 to 5)

TERMINATOR 9690-02 (IDs 6 to 10)

TERMINATOR 9690-03 (IDs 11 to 15)

TERMINATOR 9690-04 (IDs 16 to 20)

CARRYING CASE 9249 (stores the 3665-20, 9690 and 9628 together)

LAN CABLE 9628 (1 m long, with RJ-45 plugs)



TERMINATOR 9690-01



CARRYING CASE 9249 (for storing everything together)



LAN CABLE 9628

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

DISTRIBUTED BY



HEAD OFFICE:

81 Koizumi, Ueda, Nagano, 386-1192, Japan TEL +81-268-28-0562 / FAX +81-268-28-0568 http://www.hioki.co.jp / E-mail: os-com@hioki.co.jp

HIOKI USA CORPORATION:

6 Corporate Drive, Cranbury, NJ 08512 USA TEL +1-609-409-9109 / FAX +1-609-409-9108 http://www.hiokiusa.com / E-mail: hioki@hiokiusa.com

HIOKI (Shanghai) Sales & Trading Co., Ltd.: 1608-1610 Shanghai Times Square Office, 93 Huai Hai Zhong Road, Shanghai, P.R.China POSTCODE: 200021 TEL +86-21-6391-0090/0092 FAX +86-21-6391-0360 http://www.hioki.cn / E-mail: info-sh@hioki.com.cn

Beijing Office:
TEL +86-10-5867-4080/4081 FAX +86-10-5867-4090
E-mail: info-bj@hioki.com.cn
Guangzhou Office:

TEL +86-20-38392673/2676 FAX +86-20-38392679 E-mail: info-gz@hioki.com.cn

HIOKI INDIA PRIVATE LIMITED:
Khandela House, 24 Gulmohar Colony Indore 452 018 (M.P.), India TEL +91-731-4223901, 4223902 FAX +91-731-4223903 http://www.hioki.in / E-mail: info@hioki.in