

# WireMaster RJ-45

## INSTRUCTION MANUAL



84-749

### DESCRIPTION:

The WireMaster RJ-45 (PN 3251) is a small, light-weight tester that verifies wiring of unenergized, 8 conductor patch cables, terminated with RJ-45 connectors.

### FEATURES:

- 1) Verifies point to point wiring of Twisted Pair cables. Checks for continuity in straight-through wiring.
- 2) Eight LEDs identify the destination of each conductor in the cable.
- 3) Long Battery life.

### SPECIFICATIONS:

**Cable Types:** EIA/TIA T568A,  
EIA/TIA T568B, (AT&T258A)  
USOC 4 Pair,  
Token-Ring,  
10BASE-T,  
TP-PMD &  
any RJ-45 cable.

**Battery:** 9 V Alkaline, NEDA 1604A, such as Eveready 522 or Duracell MN1604.

**Battery Life:** Approximately 120 hours of testing. Approximately 6 months idle (No cable attached).

**Size:** 3.7 L x 2.4 W x 1.1 H inches  
(93) (61) (28) (mm)

**Weight:** Less than 7 oz. w/battery installed.

### OPERATING INSTRUCTIONS:

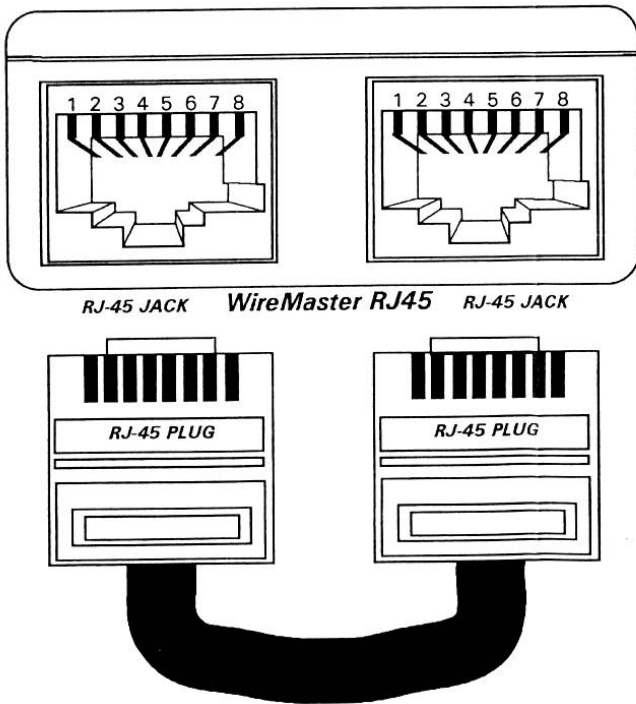
Plug each end of an energized RJ-45 cable into the RJ-45 jacks on the top of the WireMaster RJ-45. If the cable is correct for straight-through wiring, the red LEDs will light in sequence from left to right (LED #1 to LED #8). If any of the conductors are OPEN, the corresponding LED will not light. If any two or more LEDs are on at the same time, the conductors indicated are shorted together. If the LEDs flash out of sequence, the conductors of the cable are going to the wrong contacts of the RJ-45 plug. The WireMaster RJ-45 does not perform a NEXT test.

**\*\*\* WARNING \*\*\* WireMaster RJ-45 is not designed to be used on energized cables. Failure to follow this warning may lead to product failure.**

### SAMPLE RESULTS:

LED Flashing Sequence	Cable Fault
1 2 3 4 5 6 7 8	NONE, Cable O.K.
2 1 3 4 5 6 7 8	Conductor 1 & 2 reversed.
1 2&3 2&3 4 5 6 7 8	Conductor 2 & 3 shorted.
1 2 3 - 5 6 7 8	Conductor 4 Open
1 2 5 3 6 4 7 8	Pair 3/6 transposed with Pair 5/4.
1 2 3 7 5 6 4 8	Conductor 4 & 7 are switched.

### Example Connection Diagram



### Common Wiring Standards

WIRING STANDARD	PAIR 1		PAIR 2		PAIR 3		PAIR 4		JACK TYPE
	T	R	T	R	T	R	T	R	
T568A	5	4	3	6	1	2	7	8	RJ-45
258A, T568B	5	4	1	2	3	6	7	8	RJ-45
USOC 4 PAIR	5	4	3	6	2	7	1	8	RJ-45
TOKEN-RING	5	4	3	6	-	-	-	-	RJ-45
10BASE-T	1	2	3	6	-	-	-	-	RJ-45
TP-PMD	1	2	7	8	-	-	-	-	RJ-45
TWISTED PAIR COLOR CODE	WHT/ BLU	BLU/ WHT	WHT/ ORG	ORG/ WHT	WHT/ GRN	GRN/ WHT	WHT/ BRN	BRN/ WHT	JACKET/ STRIPE