

## Certification of CAT 5 Cables?

You DON'T want to do it, or have it done, unless your customer insists on it!

If the cable won't certify at 100mbts, it will probably still run at 50 or 80 mbts. Is it worth re-running the cable since the added bandwidth will probably never be used? Probably not, and if the cable is never Certified... nobody will ever know.

If the customer does insist on Certification, keep in mind that if you make some mistakes in running the cable, you will probably have to re-run some of them. Not fun, or profitable. What's worse, some customers insist on certifying the cable with a particular brand of \$3,500 to \$8,000 cable scanner - which might be different from what the last customer wanted.

Murphy's Law says that if you do go out and spring for that scanner, they'll come out with CAT 6.5 next week - and your scanner will not be upgradeable!

You might find someone in your area who owns a scanner, and pay him T&M or on a per jack basis to do the Certification. Or, there's a company that RENTS Scanners for about \$400 a month... call RenTelco at 800-233-5807 for more information.

If you make these Mistakes, your nice new CAT 5 cables WON'T certify at 100mbts (but will probably work at slower speeds just fine):

- Make a sharp bend in the cable, use a 6" radius if possible.
- Use Staples - NEVER!
- Use Tie Wraps - other than VERY loosely to hold a bundle in place.
- Leave extra cable coiled up in a loop (like in the ceiling over the jack) - it really does slow the data!
- Untwist the wire before you punch it down on the block or terminate it on a jack - the twists should be right up to the termination!
- Strip more jacket off the wire than is needed to terminate it.
- Pull too hard on the cable - especially around a corner.
- Pull on a cable to straighten out a kink or loop - always go back and manually untwist it!
- Stuff too many cables in too small a conduit.

These TIPS and the PINOUT CHART are available on our FaxBack System!

FaxBack from Anywhere  
1-800-669-9900  
Document 508



**RenTelco**  
(800) 233-5807  
Fax: (925) 453-3202  
www.rentelco.com

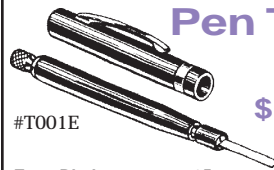
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## RENTALS!

Have it on site tomorrow!

- ▶ Need a Cat 5 or 5e Tester FAST?
- ▶ MICROTEST® OmniScanner  
And other Communications Test Equipment
- ▶ OTDR's • TDR's • Fusion Splicers • T-1 Test Sets
- ▶ We sell scanners ....and finance them too!

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#T001E

\$18.95

Extra Blades #T002E: 65¢ ea.

## Pen Type Burnishing Tool

For cleaning the contacts in dials and hookswitches...

**DON'T USE TUNER SPRAY!**

Economy Burnishing Tool in Vinyl Slip Case \$3.59 #T001B

- Great for getting Coke out of sticky dials! Just spray a little WD-40 on the blade, and "file" in the space around the button.

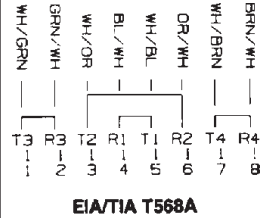
## INSTRUCTIONS for BURNISHING TOOL:

If you have a dial or any type of key that is sticking (from Coke etc.), use our very thin burnishing tool and a little Telephone Polish or WD-40 to get between the button and the frame to clean out the gunk. It works about 80% of the time, and I usually do it right in the field. Don't use it for cleaning contacts after cleaning out Coke!

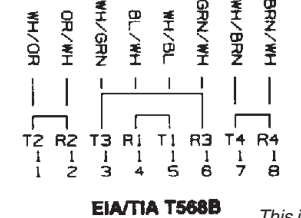
A more traditional use of the burnishing tool is to clean the contacts on relays and switches. Put the tool between the contacts, and operate the switch or relay by hand to provide pressure on the contact while you move the burnishing tool in and out (like a file). The burnishing tool has a very very fine abrasive on it, so it only removes oxidation, not the metal. Use it on the contacts on the backs of dials, on hookswitches (like 2500's, 1A2 & Merlin), on 1A2 line keys, and relays when you can get the plastic covers off.

**NEW**  
Fiber Optic / CAT 5 Installation TRAINING VIDEO...  
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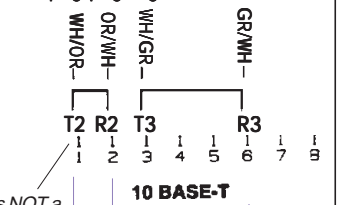
568A is the same as 568B, except pairs 2 & 3 are swapped.



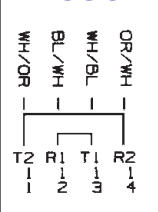
10 Base-T uses only 2 pairs, the 2nd and 3rd pairs of 568B (WECO Wiring)



It's best to wire 10 Base-T with all four pairs, especially for strength if you're crimping plugs right onto the cable.

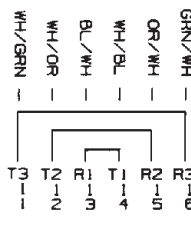


## You Need To Know These Pinouts!



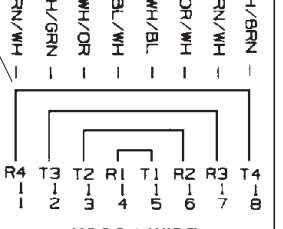
What happens when you wire the jacks wrong?

See for yourself how the pins match up between the different types of jacks!



This is NOT a pair, and it probably WON'T work due to cross-talk (NEXT).

NOTE: Most charts don't show you the T & R for each pair, only the pairs. We hope this helps!



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• Mike Sandman... Chicago's Telecom Expert •  
• 390 E. Irving Park Rd. • Roselle, IL 60172 • 630-980-7710 •

