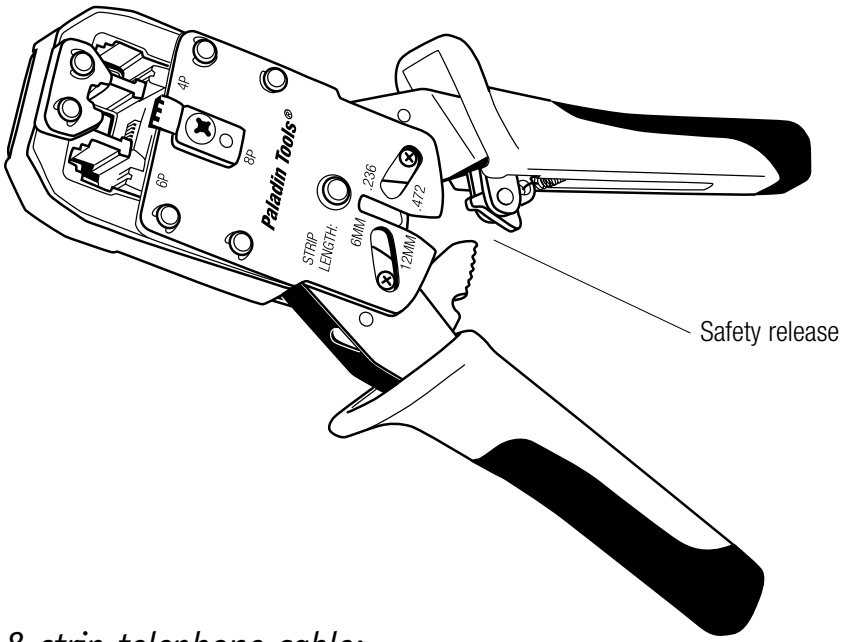
1530R & 1540 All-in-One Pro Data/Phone Tools



To cut & strip telephone cable:

1. To cut & strip 4- & 6-conductor flat cable, insert the cable into the slot labeled 6 mm. Squeeze the handles to close the blades & cut the cable.
2. Rest the cut cable end on the inside ridge for 6 mm. Squeeze the handles to close the stripping blades & pull the cable out to strip the outer insulation.
3. For 8-conductor cables, perform step 1 using the 12 mm slot position.

To crimp cable:

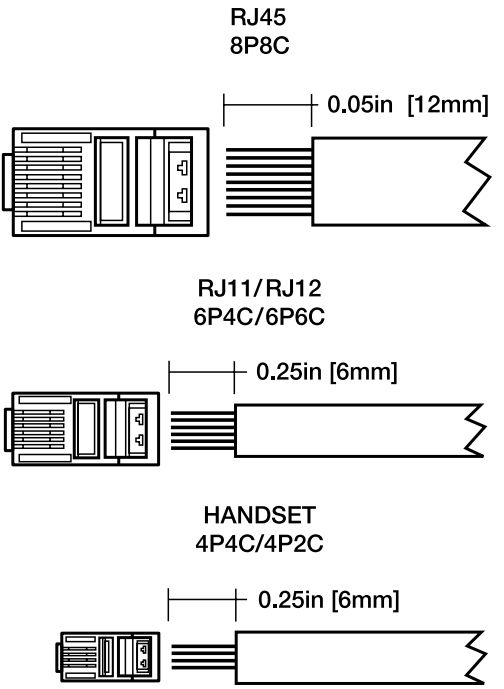
1. Assemble cable according to the connector manufacturer's instructions & according to the required pin-out. See pages 35 - 38 for reference.
2. Install the connector/cable assembly with the key tab facing upward into the required 4-pin, 6-pin or 8-pin crimp. Squeeze the handles through a complete ratchet cycle. Handles will reopen when crimp is complete.

Note: The 1530R is for WE/SS modular plugs; the 1540 is for AMP (Tyco) plugs.

Connector	Crimp Cavity
RJ22 handset	4P
RJ11/12	6P
RJ45	8P

Telephone Cable Assembly

To assemble telephone cable:



1. For 4- & 6-pin connectors, strip approximately 1/4" of the outer insulation off the cable. For 8- & 10-pin connectors, strip approximately 1/2" of the outer insulation off the cable.
2. Do not strip the insulation off the smaller internal wires.
3. For flat cables, slide the wires into the connector. Make sure the wire ends are butting against the very front edge of the connector & that all wires are located under the pins.
4. For round cable (twisted pair), arrange the wires in pairs based on the color. Verify the wiring pin-out required for the system. Typically pairing is either 1-to-1, or is paired for pins 1 & 2, 3 & 6, 4 & 5, & 7 & 8 (for EIA standard). The equipment connecting to the cable determines the wiring pin-out.
5. When the wires are arranged for the correct pin-out, slide the wires into the connector. Make sure the wire ends are butting against the front edge of the connector.
6. Install the cable/connector assembly into the crimp tool. Crimp the connector to force the pins into the wires & to engage the strain relief on the cable.

Data Network Cable Assembly

Technical references: Use the configuration listed below for required network type.

Cabling & Network Scheme	Configuration Type
Category 1, outdated, no criteria	EIA/TIA-568A or 568-B
Category 2, to 1Mhz (CAT-2)	EIA/TIA-568A or 568-B
Category 3, to 16Mhz (CAT-3)	EIA/TIA-568A or 568-B
Category 4, to 20Mhz (CAT-4)	EIA/TIA-568A or 568-B
Category 5, to 100Mhz (CAT-5)	EIA/TIA-568A or 568-B
Enhanced Category 5, to 150Mhz (CAT-5E)	EIA/TIA-568A or 568-B
Category 6, to 300Mhz (CAT-6)	EIA/TIA-568A or 568-B
Ethernet 10 Base-T	EIA/TIA-568B
100 Base-T	EIA/TIA-568B
ISDN	EIA/TIA-568A
USOC 10 Base-T	USOC
AT&T 258A	EIA/TIA-568B
100 Base-T4	EIA/TIA-568B
100 Base-T8	EIA/TIA-568B
ATM 155Mbps	EIA/TIA-568B
TP-PMD	EIA/TIA-568B
100VG-AnyLAN	EIA/TIA-568B
Token Ring	EIA/TIA-568B
Systimax SCS (AT&T)	EIA/TIA-568B

Recommended tools: Jacket stripper, scissors, crimping tool, & continuity tester.

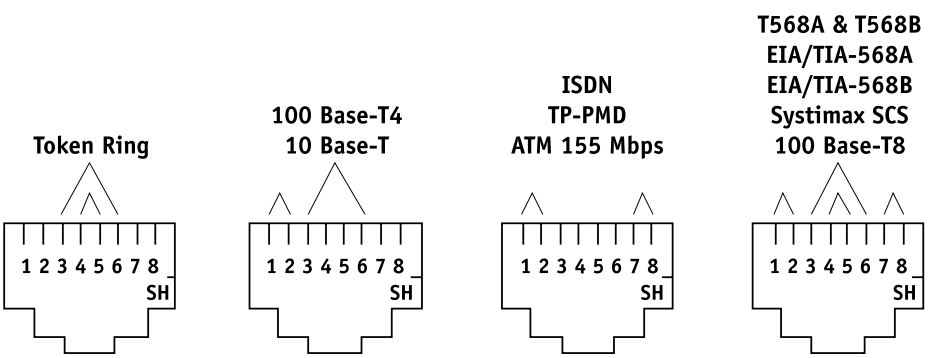
Assembly instructions:

1. Strip 1 inch of the outer jacket off the cable. DO NOT strip the insulation off the inner wires. Be sure not to score the insulation on the inner wires when stripping the outer jacket.
2. Untwist the paired wires.
3. Configure the wire scheme by the color code for the network type you are installing. See the network wiring chart on the inside back cover.
4. Make sure all the wires are straight in line & not staggered.

(cont'd on page 37)

5. Use scissors to trim the wires to .5 inches. Make sure all wires are of the same length & in a straight line.
6. Grip the wires & jacket joint between thumb & fore-finger to hold steadily together. Gently slide the wires into the RJ45 plug until they begin to “track” in the inner channels of the connector.
7. Push the wires all the way into the connector until the front of the wires butt against the front edge of the connector. Make sure you can see the copper tips when looking at the front end of the connector.
8. Install cable & connector assembly into the crimp tool & crimp until all pins are set. All pins should be fully compressed & of equal height after crimping.

Wire Pairing Chart



Data Network Wiring Chart