

First in flight: The Wright Brothers. First in communication tools: Paladin Tools.

This catalog celebrates Paladin Tools' **25 years of innovation**. Founded in 1977, Paladin Tools is the leader in tool development for datacomm and broadcast professionals.

Paladin Tools is synonymous with **industry firsts**, many of which are now standard products including:

- The **first** crimping tool with interchangeable die sets – 1300 Series.
- The **first** cable mappers – Patch-Check™ and PC Cable-Check™
- The **first (and only)** punchdown tool with a detachable light – SurePunch® PRO.

In addition to our **highest-quality** tools, we provide the **most reliable** customer service – our on-time delivery to your request date averages **96%** each month.

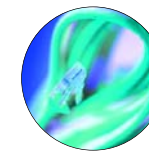
This year marks the 100th anniversary of man's **first** flight. As technology evolves, Paladin Tools will continue to be at the forefront designing innovative products.

First in communication tools: Paladin Tools.



Orville & Wilbur Wright make the world's first flight near Kitty Hawk, NC on December 17, 1903.

innovations



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Quick Guide



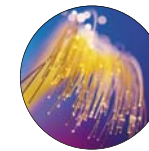
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Flat Telephone Cable



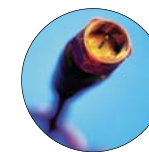
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Twisted Pair Cable



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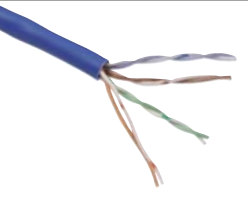










Bench/Other Hand Tools



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Data and Telephone Communications – Copper & Fiber Optic

Cable	Connectors	Cutters	Strippers	Crimpers	Punchdowns	Testers	Kits	Accessories	Modular Plugs		
											
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Paladin Tools®

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Electrical and Industrial Wiring

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fast food...



Vending machines inside an automat with tomato & lettuce or cream cheese & jelly sandwiches for two nickels. Circa 1945.

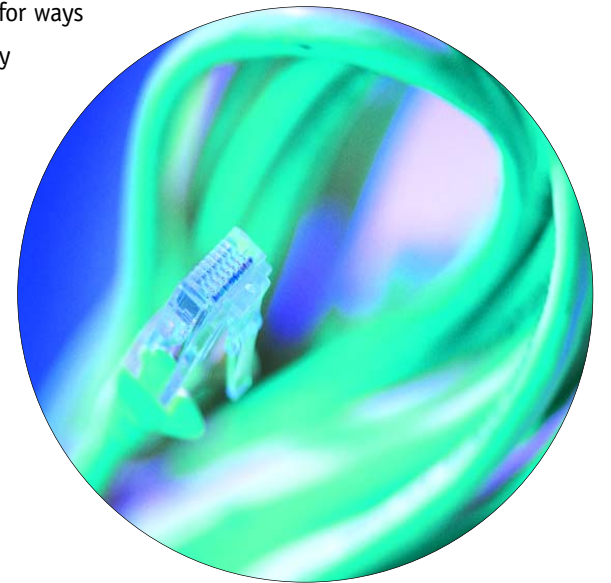
Who would have ever guessed that we would one day insert coins into a machine to purchase a snack or even our lunch? Technology developments during the 20th century have us expecting more. We are now all hurried and constantly looking for ways to get things accomplished more quickly and more efficiently.

Over the years Paladin Tools supplied the hand tools & continuity testers needed to make the job easier and faster to install.








Now we are introducing the Quick Guide as the source for answers to your applications questions.

It contains:




- A pictorial selection guide/table of contents to help you find your tools at a glance.
- New die set matrices which now include metric sizes – you can see all of the dies and tools available in a single source.
- Cable assembly instructions.



innovations

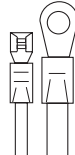
Part Numbers	Type(s)	Connector Type(s)	Crimp Sizes and Type	Connector Manufacturers or Remarks
Coaxial Crimpers				
 Tool & Die: 1609 Die Set: 2660	BELDEN 8281 & 7505	Coaxial, BNC/TNC, 3 Piece HDTV	0.324"(8.2 mm)/0.068"(1.7 mm) HEX & 0.042"(1.0 mm) SQ	KINGS, ADC, AMPHENOL HDTV
 Tool & Die: 1611 Die Set: 2661	RG59, BELDEN 1505A, BELDEN 8241	Coaxial, BNC/TNC, 3 Piece HDTV	0.255"(6.5 mm)/0.068"(1.7 mm) HEX & 0.042"(1.0 mm) SQ.	KINGS, ADC, TROMPETER, AMPHENOL HDTV
 Tool & Die: 1612 Die Set: 2662	RG6, BELDEN 1694A, BELDEN 1855A	Coaxial, BNC/TNC, 3 Piece HDTV	0.275"(6.9 mm)/0.178"(4.5 mm) HEX & 0.042"(1.0 mm) SQ.	KINGS HDTV
 Tool & Die: 1613 Die Set: 2663	BELDEN 1694A, NT735, BELDEN 8218	Coaxial, BNC/TNC, 3 Piece HDTV	0.278"(7.0 mm)/0.197"(5.0 mm) HEX & 0.042"(1.0 mm) SQ.	ADC HDTV
 Tool & Die: 1616 Die Set: 2003	RG174/RG179/RG188 and Small Cable Conn.	Coaxial, BNC/TNC	0.178"(4.5 mm)/0.068"(1.7 mm) HEX & 0.042"(1.0 mm) SQ.	Crimps Pins, Ferrules, & Sleeve
 Tool & Die: 1617 Die Set: 2005	RG58, RG59, RG62AU	Coaxial, BNC/TNC	0.255"(6.5 mm)/0.213"(5.4 mm)/ 0.068"(1.7 mm) HEX	Crimps Pins, Ferrules, & Sleeve
 Tool & Die: 1619 Die Set: 2019	RG59, RG62AU, BELDEN 8281/8241	Coaxial, BNC/TNC	0.324"(8.2 mm)/0.255"(6.5 mm)/ 0.068"(1.7 mm) HEX	Crimps Pins, Ferrules, & Sleeve

Fiber Optic Crimpers


 Tool & Die: 1606 Die Set: 2044	Fiber optic	Lucent Technologies SC Type	0.190"(4.83 mm) HEX/ 0.105"(2.67 mm) RND/0.090"(2.3 mm)RND	Lucent SC - Ferrules/Sleeves
 Tool & Die: 1614 Die Set: 2664	Fiber optic	SMA/SMB/FC/BICONIC FIBER	0.213"(5.4 mm)/0.178"(4.5 mm)/ 0.151"(3.83 mm) HEX	SMA/FC/BICONIC FIBER
 Tool & Die: 1668 Die Set: 2668	Fiber optic	3M SC, ST	0.120"(3.05mm)/0.137"(3.48mm)/ 0.190"(4.83mm) RND	3M, Suncall, Fiber Source SC & ST

NOTE: If the required crimp style and dimension is not listed above, or if you are not sure which is the correct crimp tool, divide the connector ferrule outside diameter by 1.155. If the result is within +/- 0.004 inches of any of our sizes, then choose our tool.

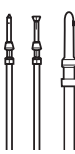
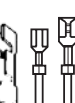

Insulated Terminal Crimpers

 Tool & Die: 1605* Die Set: NONE	Solid or Stranded Wire, 22-14 AWG (.34-2.5 mm ²)	Insulated Terminals and Lugs	16-14 (Blue)/22-18 (Red) Terminal-Elliptical (1.5-2.5/.34-.75 mm ²)	For Standard Commercial Terminals
Tool & Die: 1625* Die Set: NONE	Solid or Stranded Wire, 22-14 AWG (.34-2.5 mm ²)	Insulated Terminals and Lugs	16-14 (Blue)/22-18 (Red) Terminal-Elliptical (1.5-2.5/.34-.75 mm ²)	AMP (Tyco) Ultra-fast/Faston Terminals

Non-Insulated Terminal Crimpers


 Tool & Die: 1618* Die Set: NONE	Solid or Stranded Wire, 20-10 AWG (.5-6 mm ²)	Non-Insulated Terminals and Lugs	12-10/16-14/20-18 Indent (4-6/1.5-2.5/.5-.75 mm ²)	For Standard Commercial Terminals
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Open Barrel Contacts and Terminals Crimpers

 Tool & Die: 1631* Die Set: NONE	Solid or Stranded Wire, 24-14 AWG (.20-2.5 mm ²)	Open Barrel Contact Pins	24-22/18-14 F-Type (.20-.34/.75-2.5 mm ²)	Molex/Waldom/Leoco Type Conn.
 Tool & Die: 1645* Die Set: NONE	Solid or Stranded Wire, 30-18 AWG (.05-.75 mm ²)	Open Barrel Contact Pins	30-24/22-18 F-Type (.05-.20/.34-.75 mm ²)	Molex/Waldom/Leoco Type Conn.
 Tool & Die: 1646* Die Set: NONE	Solid or Stranded Wire, 28-20 AWG (.08-.5 mm ²)	Open Barrel D-Subminiature	28-24/22-20 F-Type (.08-.2/.34-.5 mm ²)	Standard D-sub Contacts

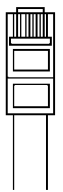
NOTE: For the above, the pin AWG size must be inside the range of the crimp area AWG size to work. For example, if the area is for 28-24 AWG, the pin must have an AWG rating of between 28-24. No smaller and no larger. Example: 28-22 AWG rated pin will not work, it is too large in size.

Wire Ferrule Crimpers

 Tool & Die: 1647 Die Set: 2681	Solid or Stranded Wire, 20-10 AWG (.5-6 mm ²)	Insulated & Non-Insulated Ferrules	20-10 TRAPEZOID (.05-6 mm ²)	For DIN or US Type Wire Ferrules
Tool & Die: 1648* Die Set: NONE	Solid or Stranded Wire, 20-12 AWG (.5-4 mm ²)	Insulated & Non-Insulated Ferrules	20-12 TRAPEZOID (.05-4 mm ²)	For DIN or US Type Wire Ferrules
Part Numbers	Type(s)	Connector Type(s)	Crimp Sizes and Type	Connector Manufacturers or Remarks

* The die sets for these tools are NOT removable or interchangeable. Removal of the die sets will void the warranty and cause the tool to lose calibration.

Unshielded Twisted Pair (UTP) Modular Plug Crimpers



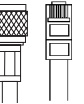
Part Numbers	Type(s)	Connector Types (28-22 AWG/.08-.34mm ²)	Crimp Sizes	Connector Manufacturers or Remarks
Tool & Die: 8030 Die Set: 2061	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed WE and SS	Western Electric (WE)/Stewart Connector (SS)
Tool & Die: 8046 Die Set: 2688	RJ45 SNAGLESS - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed WE and SS	Western Electric (WE)/Stewart Connector (SS) /Hubbell Premise Wiring
Tool & Die: 8031 Die Set: 2062	RJ11 & RJ12 - 6P6C, 6P4C, 6P2C	Flat/Round, Solid/Stranded	RJ11/12 Unkeyed WE and SS	Western Electric (WE)/Stewart Connector (SS)
Tool & Die: 8032 Die Set: 2063	RJ22 Handset - 4P4C (4 Pin)	Flat/Round, Solid/Stranded	4 Pin Handset WE and SS	Western Electric (WE)/Stewart Connector (SS)
Tool & Die: 8033 Die Set: 2064	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed AMP	AMP (Tyco) Inc. Connectors Only
Tool & Die: 8034 Die Set: 2065	RJ11 & RJ12 - 6P6C, 6P4C, 6P2C	Flat/Round, Solid/Stranded	RJ11/RJ12 Unkeyed AMP	AMP (Tyco) Inc. Connectors Only
Tool & Die: 8035 Die Set: 2067	RJ11 DEC-MMJ OFFSET- 6P6C	Flat/Round, Solid/Stranded	RJ11 DEC/MMJ OFFSET	AMP (Tyco) Inc. Connectors Only
Tool & Die: 8036 Die Set: 2068	RJ50 - 10P10C (10 Pin)	Flat/Round, Solid/Stranded	RJ50 Unkeyed WE and SS	Virginia Plastics (VP)
Tool & Die: 8038 Die Set: 2032	British Telecom 6 Pole Plug	Flat/Round, Solid/Stranded	BT 6 Pole	British Telecom Plugs Only

Shielded Twisted Pair (STP & SCTP) Modular Plug Crimpers



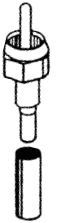
Tool & Die: 8040 Die Set: 2670	RJ45, Stewart Connector, Short Body	Round, Shielded (STP)	RJ45 STP Stewart Connector, Short Body	Stewart Connector
Tool & Die: 8041 Die Set: 2671	RJ45, Hirose Connectors, Long Body	Round, Shielded (STP)	RJ45 STP Hirose Connector, Long Body	Hirose
Tool & Die: 8042 Die Set: 2672	RJ45, Hirose Connectors, Short Body	Round, Shielded (STP)	RJ45 STP Hirose Connectors, Short Body	Hirose
Tool & Die: 8043 Die Set: 2673	RJ45, Molex Connectors, for 5.0 dia. Cable	5.0mm Dia. Round, Shielded (STP)	RJ45 STP Molex Connectors, 5.0mm dia. cable	Molex
Tool & Die: 8044 Die Set: 2674	RJ45, AMP/Molex Connectors, for 6.0 dia. Cable	6.0mm Dia. Round, Shielded (STP)	RJ45 STP AMP & Molex, 6.0mm dia. cable	AMP (Tyco) Inc. & Molex

Specialty Crimpers



Tool & Die: 8045 Die Set: 2687	RJ45 WE/SS & RG6/RG6 Quad CATV "F"	UTP 4-Pair & RG6/RG6 Quad	RJ45 WE/SS 8-pin & .360"(9.1mm) HEX/ .324"(8.2mm) HEX	For standard RJ45 WE/SS Modular Plugs & 1-piece RG6/RG6 Quad CATV "F" conns.
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Fiber Optic Crimpers



Tool & Die: 8017 Die Set: 2652	Fiber Optic SMA, SMB, SFR, ST, SC Type	Fiber Optic	0.128"(3.2mm)/0.151"(3.83mm)/0.215"(5.46mm)/ 0.197"(5.0mm)/0.178"(4.5mm) HEX	Universal for sleeves and ferrules, SCII, FC, SMA
Tool & Die: 8018 Die Set: 2043	Fiber Optic SMA/FC Type	Fiber Optic	0.213"(5.41mm)/0.178"(4.5mm)/ 0.151"(3.83mm) HEX	Crimps Ferrules and Sleeves Only, SMA, FC
Tool & Die: 8019 Die Set: 2030	Fiber Optic SRF and SMF Type	Fiber Optic	0.190"(4.83mm)/0.160"(4.06mm)/ 0.132"(3.35mm) RND	AMP - Crimps Ferrules and Sleeves
Tool & Die: 8020 Die Set: 2654	Lucent Technologies SC Type	Fiber Optic	0.190"(4.83mm) HEX/0.105"(2.67mm) RND/ 0.090"(2.3mm) RND	Lucent SC - Crimps Ferrules/Sleeves
Tool & Die: 8037 Die Set: 2669	3M SC/FC-3 Fiber Optic	Fiber Optic	0.120"(3.05mm) RND/0.137"(3.48mm) RND/ 0.190"(4.83mm) RND	3M SC/FC Type Fiber Connectors with Round Crimp
Tool & Die: 8039 Die Set: 2685	Universal LC/ST/FC /MT-RJ/SC Fiber Optic	Fiber Optic	.151"(3.83mm) HEX/.178"(4.5mm) HEX/LC RND/ .190"(4.83mm) RND	SC/ST, Lucent/KRONE LC, SMA, FC, MT-RJ

Part Numbers	Type(s)	Connector Type(s)	Crimp Sizes	Connector Manufacturers or Remarks
Insulated Terminal Crimpers				
Tool & Die: 8021 Die Set: 2035	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-10 AWG (.34-6 mm ²)	12-10 (Yellow)/16-14 (Blue)/22-18 (Red) (6-4/2.5-1.5/.34-.75 mm ²)	For Large Professional Terminals (Panduit, T & B, etc.)
Tool & Die: 8022 Die Set: 2040	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-12 AWG (.34-4 mm ²)	12 (Yellow)/16-14 (Blue)/22-18 (Red) (4/1.5-2.5/.34-.75 mm ²)	For Standard Commercial Terminals (Hardware Store Brands)
Tool & Die: 8023 Die Set: 2029	Insulated Terminals and Lugs	Solid or Stranded Wire, 26-14 AWG (.10-2.5 mm ²)	16-14 (Blue)/22-18 (Red)/22-26 (Yellow) (1.5-2.5/.34-.75/.34-.10 mm ²)	For Smaller Wire Barrel Terminals










Non-Insulated Terminal Crimpers				
Tool & Die: 8024 Die Set: 2031	Non-Insulated Terminals and Lugs	Solid or Stranded Wire, 22-8 AWG (.34-10 mm ²)	10-8/14-12/18-16/22-120 (6-10/2.5-4/.75-1.5/.34-.50 mm ²)	For Standard Commercial Terminals

Open Barrel Contacts, Box Contacts, and Terminal Crimpers				
Tool & Die: 8026 Die Set: 2033	Open Barrel Non-Insulated Terminals, Narrow Lugs and Power Contacts	Solid or Stranded Wire, 22-14 AWG (.34-2.5 mm ²), F-Type**	22-18/16-14/12-10 (.34-.75/1.5-2.5/4-6 mm ²)	For Standard Commercial Terminals
Tool & Die: 8027 Die Set: 2096	Open Barrel Non-Insulated Terminals, Wide Lugs and Power Contacts	Solid or Stranded Wire, 22-14 AWG (.34-2.5 mm ²), F-Type**	16-14/22-18 (1.5-2.5/.34-.75 mm ²)	For Standard Commercial Terminals
Tool & Die: 8028 Die Set: 2092*	Open Barrel Box and Round Contact Pins	Solid or Stranded Wire, 30-18 AWG (.05-.75 mm ²), F-Type**	30-24/22-18 (.05-.2/.34-.75 mm ²)	Molex/Waldom/Leoco Type Conn.
Tool & Die: 8029 Die Set: 2097	Open Barrel D-Sub Contact Pins RS-232	Solid or Stranded Wire, 28-20 AWG (.08-.50 mm ²), F-Type**	28-24/22-20 (.08-.2/.34-.5 mm ²)	For Standard D-sub Pins Only; not for HD D-sub

* Not for use on hardened steel, brass or phosphor bronze contacts. ** This is also known as "B-type"

Wire Ferrule Crimpers				
Tool & Die: 8025 Die Set: 2095	Insulated & Non-Insulated Wire Ferrules	Solid or Stranded Wire, 22-10 AWG (.34-6 mm ²)	22-20/18-16/14-12/10 (.34-.50/.75-1.5/2.5-4/6 mm ²)	For DIN or US Type Wire Ferrules


Coaxial Crimpers				
Tool & Die: 8001 Die Set: 2034	BNC/TNC, 3 Piece	RG58, RG59, RG62AU	0.256"(6.5mm)/0.213"(5.4mm)/0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC
Tool & Die: 8002 Die Set: 2648	HDTV SMA, True 75-ohm BNC/TNC, Mini-UHF	RG174, RG59/62, mini-coaxial 75-ohm	0.255"(6.5mm)/0.197"(5.0mm)/0.178"(4.5mm)/0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
Tool & Die: 8003 Die Set: 2649	HDTV BNC/TNC/CATV "F" True 75-ohm	RG59, RG6, BELDEN 8281, BELDEN 1694A	0.324"(8.2mm)/0.255"(6.5mm)/0.068"(1.7mm) HEX & 0.052"(1.3mm)/0.042"(1.0mm) SQ	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
Tool & Die: 8004 Die Set: 2657	HDTV BNC/TNC True 75-ohm	RG6, BELDEN 1694, BELDEN 1694A	0.278"(7.0mm)/0.275"(6.9mm)/0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	Common 3-piece BNC/TNC (Kings & ADC HDTV)
Tool & Die: 8005 Die Set: 2653	SMA, SMB, Mini-59 BNC/TNC, Mini-UHF	RG58, Mini-59, RG-174, small coaxial	0.128"(3.2mm)/0.213"(5.4mm)/0.197"(5.0mm)/0.178"(4.5mm)/0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	Common 2-piece and 3-piece SMA/SMB/BNC/TNC & Mini-UHF
Tool & Die: 8006 Die Set: 2046	Thinnet, BNC/TNC, Mini-UHF	RG58, RG174, AT & T 735, 50 and 75 ohm	0.213"(5.4mm)/0.178"(4.5mm)/0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	50/75 ohm small 2-piece and 3-piece BNC/TNC (Kings, ADC, etc.)
Tool & Die: 8007 Die Set: 2047	BNC/TNC, and Mini-UHF	RG59, RG62, BELDEN 8281, 50 and 75 ohm	0.315"(8.0mm)/0.252"(6.4mm)/0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	75 ohm 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
Tool & Die: 8008 Die Set: 2051	BNC/TNC	RG174, RG179, and Small Cable Conn.	0.178"(4.5mm)/0.128"(3.2mm)/0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC/SMA/SMB
Tool & Die: 8009 Die Set: 2075	BNC/TNC	RG58, RG59, RG62AU, RG6 Teflon/Plenum	0.325"(8.25mm)/0.215"(5.46mm)/0.065"(1.65mm) HEX	2-piece and 3-piece BNC/TNC AIM/Cambridge
Tool & Die: 8010 Die Set: 2076	BNC/TNC	RG6, RG58	0.320"(8.13mm)/0.210"(5.33mm)/0.185"(4.7mm) HEX	2-piece BNC/TNC AIM/Cambridge, Kings, Amphenol
Tool & Die: 8011 Die Set: 2082	BNC/TNC	BELDEN 1694A, BELDEN 1695A	0.315"(8.0mm)/0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC
Tool & Die: 8012 Die Set: 2045	BNC and CATV "F" Type & HDTV	RG6 and RG6 Quad, BELDEN 1694A	0.360"(9.1mm)/0.324"(8.2mm)/0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC, and CATV "F" 2-piece
Tool & Die: 8013 Die Set: 2042	CATV "F" Type	RG59, RG6 VIDEO CABLE	0.346"(8.8mm)/0.319"(8.1mm)/0.256"(6.5mm) HEX	Crimps Ferrules or Sleeves Only
Tool & Die: 8014 Die Set: 2656	N-type	RG8, RG11, RG213	0.429"(10.9mm)/0.100"(2.54mm)/0.080"(2.03mm) HEX	Common 2-piece and 3-piece "N"-Type (Kings, ADC, Amphenol, etc.)
Tool & Die: 8015 Die Set: 2039	N-type, MS39012 Type	RG8, RG11, RG213, RG216	0.415"(10.5mm)/0.095"(2.4mm) HEX	Crimps Pins and Ferrules
Tool & Die: 8016 Die Set: 2050	BNC/TNC	RG8, RG213	0.402"(10.2mm)/0.094"(2.4mm)/0.079"(2.0mm) HEX	Common 2-piece and 3-piece BNC/TNC
Part Numbers	Type(s)	Connector Type(s)	Crimp Sizes	Connector Manufacturers or Remarks

Part Numbers	Type(s)	Connector Types (28-22 AWG/.08-.34mm ²)	Crimp Sizes	Connector Manufacturers or Remarks
Unshielded Twisted Pair (UTP) Modular Plug Crimpers				
 Tool & Die: 1307 Die Set: 2061	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed WE and SS	Western Electric (WE)/Stewart Connector (SS)
 Tool & Die: 1388 Die Set: 2688	RJ45 SNAGLESS - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed WE and SS	Western Electric (WE)/Stewart Connector (SS) /Hubbell Premise Wiring
 Tool & Die: 1340 Die Set: 2062	RJ11 & RJ12 - 6P6C, 6P4C, 6P2C	Flat/Round, Solid/Stranded	RJ11/12 Unkeyed WE and SS	Western Electric (WE)/Stewart Connector (SS)
 Tool & Die: 1341 Die Set: 2063	RJ22 Handset - 4P4C (4 Pin)	Flat/Round, Solid/Stranded	4 Pin Handset WE and SS	Western Electric (WE)/Stewart Connector (SS)
 Tool & Die: 1342 Die Set: 2064	RJ45 - 8P8C (8 Pin)	Flat/Round, Solid/Stranded	RJ45 Unkeyed AMP	AMP (Tyco) Inc. Connectors Only
 Tool & Die: 1343 Die Set: 2065	RJ11 & RJ12 - 6P6C, 6P4C, 6P2C	Flat/Round, Solid/Stranded	RJ11/RJ12 Unkeyed AMP	AMP (Tyco) Inc. Connectors Only
 Tool & Die: 1344 Die Set: 2067	RJ11 DEC-MMJ OFFSET (6P6C)	Flat/Round, Solid/Stranded	RJ11 DEC/MMJ OFFSET	AMP (Tyco) Inc. Connectors Only
 Tool & Die: 1345 Die Set: 2068	RJ50 - 10P10C (10 Pin)	Flat/Round, Solid/Stranded	RJ50 Unkeyed WE and SS	Virginia Plastics (VP)
 Tool & Die: 1361 Die Set: 2032	British Telecom 6 Pole Plug	Flat/Round, Solid/Stranded	BT 6 Pole	British Telecom Plugs Only







Shielded Twisted Pair (STP & SCTP) Modular Plug Crimpers




 Tool & Die: 1370 Die Set: 2670	RJ45, Stewart Connector, Short Body	Round, Shielded (STP)	RJ45 STP Stewart Connector, Short Body	Stewart Connector
 Tool & Die: 1371 Die Set: 2671	RJ45, Hirose Connectors, Long Body	Round, Shielded (STP)	RJ45 STP Hirose Connector, Long Body	Hirose
 Tool & Die: 1372 Die Set: 2672	RJ45, Hirose Connectors, Short Body	Round, Shielded (STP)	RJ45 STP Hirose Connectors, Short Body	Hirose
 Tool & Die: 1373 Die Set: 2673	RJ45, Molex Connectors, for 5.0 dia. Cable	5.0mm Dia. Round, Shielded (STP)	RJ45 STP Molex Connectors, 5.0mm dia. cable	Molex
 Tool & Die: 1374 Die Set: 2674	RJ45, AMP/Molex Connectors, for 6.0 dia. Cable	6.0mm Dia. Round, Shielded (STP)	RJ45 STP AMP & Molex, 6.0mm dia. cable	AMP (Tyco) Inc. & Molex


Specialty Crimpers





 Tool & Die: 1387 Die Set: 2687	RJ45 WE/SS & RG6/RG6 Quad CATV "F"	UTP 4-Pair & RG6/RG6 Quad	RJ45 WE/SS 8-pin & .360"(9.1mm) HEX/ .324"(8.2mm) HEX	For standard RJ45 WE/SS Modular Plugs & 1-piece RG6/RG6 Quad CATV "F" conns.
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Fiber Optic Crimpers


 Tool & Die: 1362 Die Set: 2652	Fiber Optic SMA, SMB, SFR, ST, SC Type	Fiber Optic	0.128"(3.2mm)/0.151"(3.83mm)/0.215"(5.46mm)/ 0.197"(5.0mm)/0.178"(4.5mm) HEX	Universal for sleeves and ferrules, SCII, FC, SMA
 Tool & Die: 1330 Die Set: 2043	Fiber Optic SMA/FC Type	Fiber Optic	0.213"(5.41mm)/0.178"(4.5mm)/ 0.151"(3.83mm) HEX	Crimps Ferrules and Sleeves Only, SMA, FC
 Tool & Die: 1331 Die Set: 2030	Fiber Optic SRF and SMF Type	Fiber Optic	0.190"(4.83mm)/0.160"(4.06mm)/ 0.132"(3.35mm) RND	AMP - Crimps Ferrules and Sleeves
 Tool & Die: 1364 Die Set: 2654	Lucent Technologies SC Type	Fiber Optic	0.190"(4.83mm) HEX/0.105"(2.67mm) RND/ 0.090"(2.3mm) RND	Lucent SC - Crimps Ferrules/Sleeves
 Tool & Die: 1369 Die Set: 2669	3M SC/FC-3 Fiber Optic	Fiber Optic	0.120"(3.05mm) RND/0.137"(3.48mm) RND/ 0.190"(4.83mm) RND	3M SC/FC Type Fiber Connectors with Round Crimp
 Tool & Die: 1375 Die Set: 2685	Universal LC/ST/FC/MT-RJ/SC Fiber Optic	Fiber Optic	.151"(3.83mm) HEX/.178"(4.5mm) HEX/LC RND/ .190"(4.83mm) RND	SC/ST, Lucent/KRONE LC, SMA, FC, MT-RJ

Part Numbers	Type(s)	Connector Type(s)	Crimp Sizes	Connector Manufacturers or Remarks
Insulated Terminal Crimpers				
 Tool & Die: 1305 Die Set: 2035	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-10 AWG (.34-6 mm ²)	12-10 (Yellow)/16-14 (Blue)/22-18 (Red) (6-4/2.5-1.5/.34-.75 mm ²)	For Large Professional Terminals (Panduit, T & B, etc.)
 Tool & Die: 1308 Die Set: 2040	Insulated Terminals and Lugs	Solid or Stranded Wire, 22-12 AWG (.34-4 mm ²)	12 (Yellow)/16-14 (Blue)/22-18 (Red) (4/1.5-2.5/.34-.75 mm ²)	For Standard Commercial Terminals (Hardware Store Brands)
 Tool & Die: 1334 Die Set: 2029	Insulated Terminals and Lugs	Solid or Stranded Wire, 26-14 AWG (.10-2.5 mm ²)	16-14 (Blue)/22-18 (Red)/22-26 (Yellow) (1.5-2.5/.34-.75/.34-.10 mm ²)	For Smaller Wire Barrel Terminals

Non-Insulated Terminal Crimpers				
 Tool & Die: 1322 Die Set: 2031	Non-Insulated Terminals and Lugs	Solid or Stranded Wire, 22-8 AWG (.34-10 mm ²)	10-8/14-12/18-16/22-120 (6-10/2.5-4/.75-1.5/.34-.50 mm ²)	For Standard Commercial Terminals

Open Barrel Contacts, Box Contacts, and Terminal Crimpers				
 Tool & Die: 1306 Die Set: 2033	Open Barrel Non-Insulated Terminals, Narrow Lugs and Power Contacts	Solid or Stranded Wire, 22-14 AWG (.34-2.5 mm ²), F-Type**	22-18/16-14/12-10 (.34-.75/1.5-2.5/4-6 mm ²)	For Standard Commercial Terminals
 Tool & Die: 1358 Die Set: 2096	Open Barrel Non-Insulated Terminals, Wide Lugs and Power Contacts	Solid or Stranded Wire, 22-14 AWG (.34-2.5 mm ²), F-Type**	16-14/22-18 (1.5-2.5/.34-.75 mm ²)	For Standard Commercial Terminals
 Tool & Die: 1357 Die Set: 2092*	Open Barrel Box and Round Contact Pins	Solid or Stranded Wire, 30-18 AWG (.05-.75 mm ²), F-Type**	30-24/22-18 (.05-.2/.34-.75 mm ²)	Molex/Waldom/Leoco Type Conn.
 Tool & Die: 1359 Die Set: 2097	Open Barrel D-Sub Contact Pins RS-232	Solid or Stranded Wire, 28-20 AWG (.08-.50 mm ²), F-Type**	28-24/22-20 (.08-.2/.34-.5 mm ²)	For Standard D-sub Pins Only; not for HD D-sub

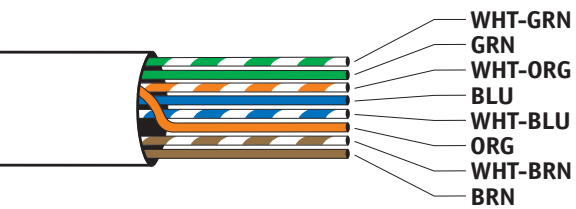
* Not for use on hardened steel, brass or phosphor bronze contacts. ** This is also known as "B-type"

Wire Ferrule Crimpers				
 Tool & Die: 1360 Die Set: 2095	Insulated & Non-Insulated Wire Ferrules	Solid or Stranded Wire, 22-10 AWG (.34-6 mm ²)	22-20/18-16/14-12/10 (.34-.50/.75-1.5/2.5-4/6 mm ²)	For DIN or US Type Wire Ferrules

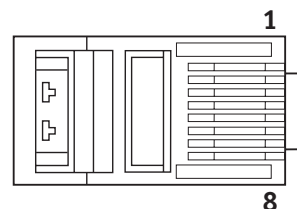
Coaxial Crimpers				
 Tool & Die: 1317 Die Set: 2034	BNC/TNC, 3 Piece	RG58, RG59, RG62AU	0.256"(6.5mm)/0.213"(5.4mm)/ 0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC
 Tool & Die: 1366 Die Set: 2648	HDTV SMA, True 75-ohm BNC/TNC, Mini-UHF	RG174, RG59/62, mini-coaxial 75-ohm	0.255"(6.5mm)/0.197"(5.0mm)/0.178"(4.5mm) /0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
 Tool & Die: 1367 Die Set: 2649	HDTV BNC/TNC/CATV "F" True 75-ohm	RG59, RG6, BELDEN 8281, BELDEN 1694A	0.324"(8.2mm)/0.255"(6.5mm)/0.068"(1.7mm) HEX & 0.052"(1.3mm)/0.042"(1.0mm) SQ	Common 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
 Tool & Die: 1368 Die Set: 2657	HDTV BNC/TNC True 75-ohm	RG6, BELDEN 1694, BELDEN 1694A	0.278"(7.0mm)/0.275"(6.9mm)/ 0.068"(1.7mm) HEX & 0.042" (1.0mm) SQ	Common 3-piece BNC/TNC (Kings & ADC HDTV)
 Tool & Die: 1363 Die Set: 2653	SMA, SMB, Mini-59 BNC/TNC, Mini-UHF	RG58, Mini-59, RG-174, small coaxial	0.128"(3.2mm)/0.213"(5.4mm)/0.197"(5.0mm)/ 0.178"(4.5mm)/0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	Common 2-piece and 3-piece SMA/SMB/BNC/TNC & Mini-UHF
 Tool & Die: 1335 Die Set: 2046	Thinnet, BNC/TNC, Mini-UHF	RG58, RG174, AT & T 735, 50 and 75 ohm	0.213"(5.4mm)/0.178"(4.5mm)/ 0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	50/75 ohm small 2-piece and 3-piece BNC/TNC (Kings, ADC, etc.)
 Tool & Die: 1336 Die Set: 2047	BNC/TNC, and Mini-UHF	RG59, RG62, BELDEN 8281, 50 and 75 ohm	0.315"(8.0mm)/0.252"(6.4mm)/ 0.068"(1.7mm) HEX & 0.042"(1.0mm) SQ	75 ohm 2-piece and 3-piece BNC/TNC (Kings, ADC, Amphenol, etc.)
 Tool & Die: 1338 Die Set: 2051	BNC/TNC	RG174, RG179, and Small Cable Conn.	0.178"(4.5mm)/0.128"(3.2mm)/ 0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC/SMA/SMB
 Tool & Die: 1347 Die Set: 2075	BNC/TNC	RG58, RG59, RG62AU, RG6 Teflon/Plenum	0.325"(8.25mm)/0.215"(5.46mm)/ 0.065"(1.65mm) HEX	2-piece and 3-piece BNC/TNC AIM/Cambridge
 Tool & Die: 1348 Die Set: 2076	BNC/TNC	RG6, RG58	0.320"(8.13mm)/0.210"(5.33mm)/ 0.185"(4.7mm) HEX	2-piece BNC/TNC AIM/Cambridge, Kings, Amphenol
 Tool & Die: 1349 Die Set: 2082	BNC/TNC	BELDEN 1694A, BELDEN 1695A	0.315"(8.0mm)/0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC
 Tool & Die: 1356 Die Set: 2045	BNC and CATV "F" Type & HDTV	RG6 and RG6 Quad, BELDEN 1694A	0.360"(9.1mm)/0.324"(8.2mm)/ 0.068"(1.7mm) HEX	Common 2-piece and 3-piece BNC/TNC, and CATV "F" 2-piece
 Tool & Die: 1328 Die Set: 2042	CATV "F" Type	RG59, RG6 VIDEO CABLE	0.346"(8.8mm)/0.319"(8.1mm)/ 0.256"(6.5mm) HEX	Crimps Ferrules or Sleeves Only
 Tool & Die: 1365 Die Set: 2656	N-type	RG8, RG11, RG213	0.429"(10.9mm)/0.100"(2.54mm)/ 0.080"(2.03mm) HEX	Common 2-piece and 3-piece "N"-Type (Kings, ADC, Amphenol, etc.)
 Tool & Die: 1319 Die Set: 2039	N-type, MS39012 Type	RG8, RG11, RG213, RG216	0.415"(10.5mm)/0.095"(2.4mm) HEX	Crimps Pins and Ferrules
 Tool & Die: 1337 Die Set: 2050	BNC/TNC	RG8, RG213	0.402"(10.2mm)/0.094"(2.4mm)/ 0.079"(2.0mm) HEX	Common 2-piece and 3-piece BNC/TNC
Part Numbers	Type(s)	Connector Type(s)	Crimp Sizes	Connector Manufacturers or Remarks

Data Network Cable Assembly Instructions

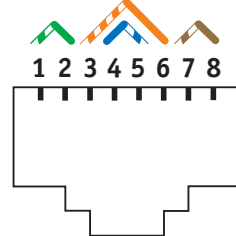
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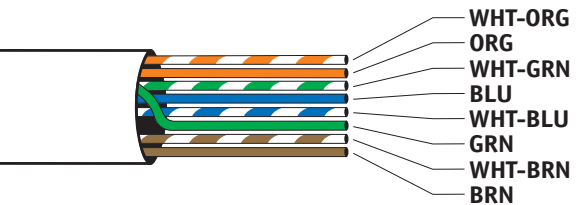
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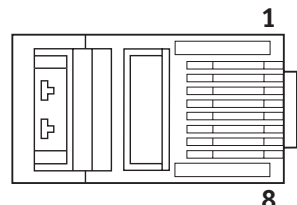
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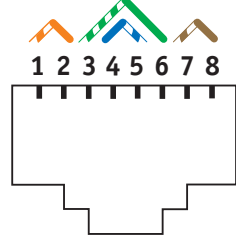
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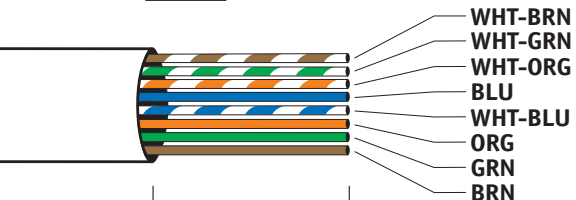
RJ45 Plug



RJ45 Socket

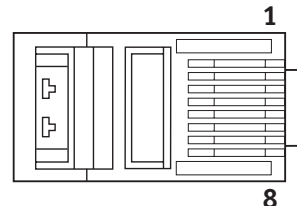


USOC

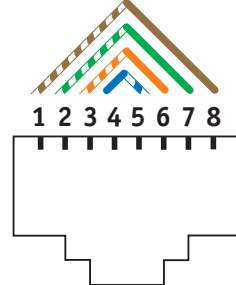


Ref. 0.50 inches all types

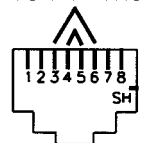
RJ45 Plug



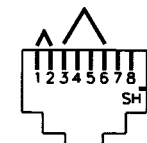
RJ45 Socket



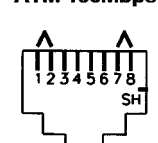
TOKEN RING



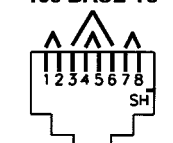
100 BASE-T4
10 BASE-T



ISDN
TP-PMD
ATM 155Mbps



T568A & T568B
EIA/TIA-568A
EIA/TIA-568B
SYSTIMAX SCS
100 BASE-T8



Technical References: Use the configuration listed below for required network type

Cabling and Network Scheme	Configuration Type
Category-1, out-dated, no criteria	EIA/TIA-568A or EIA/TIA-568B
Category-2, to 1Mhz (CAT-2)	EIA/TIA-568A or EIA/TIA-568B
Category-3, to 16Mhz (CAT-3)	EIA/TIA-568A or EIA/TIA-568B
Category-4, to 20Mhz (CAT-4)	EIA/TIA-568A or EIA/TIA-568B
Category-5, to 100Mhz (CAT-5)	EIA/TIA-568A or EIA/TIA-568B
Enhanced Category-5, to 300Mhz (CAT-5E)	EIA/TIA-568A or EIA/TIA-568B
Category-6, to 300Mhz (CAT-6)	EIA/TIA-568A or EIA/TIA-568B
Ethernet 10 Base-T	EIA/TIA-568A or EIA/TIA-568B
100 Base-T	EIA/TIA-568A or EIA/TIA-568B
1000 Base-T	EIA/TIA-568A or 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-568A or EIA/TIA-568B
Systemax SCS (AT&T)	EIA/TIA-568B

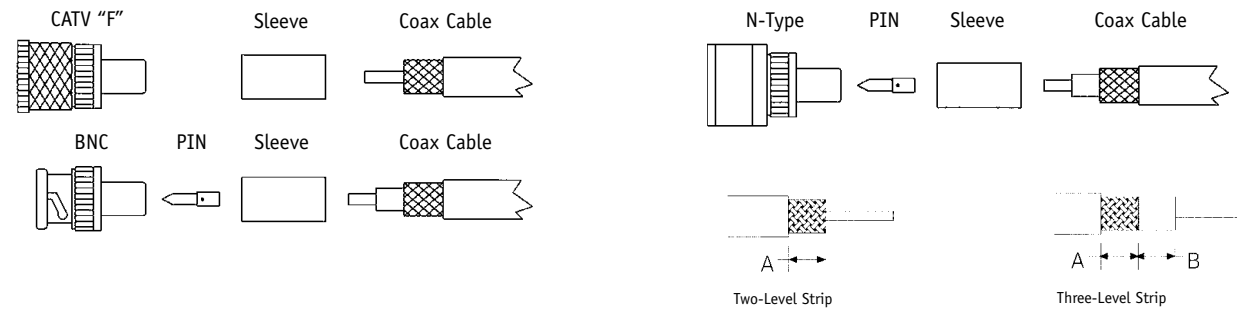
Recommended Tools:

Jacket Stripper, Scissors, Crimping Tool

Assembly Instructions for Network Cable:

- Strip 1 or 2 inches of the outer jacket off the cable. Do NOT strip the insulation off the inner wires. Be sure you do not score the insulation on the inner wires when stripping off the outer jacket.
- Untwist the paired wires.
- Configure the wire scheme by the color code for the network type you are installing.
- Ensure all the wires are straight in line and not staggered.
- Use scissors to trim the wires to 1/2 inch (0.50" or 13 mm). Make sure all wires are of same length and in a straight line.
- Grip the wires and jacket joint between thumb and forefinger to hold steadily together. Gently slide the wires into the RJ45 plug until they begin to "track" in the inner channels of the connector.
- Push the wires all the way in the connector until the front of the wires butt against the front of the connector. A visual inspection of the front end of the connector should show the copper tips if wires are completely inserted.
- Install cable/connector assembly into the crimp tool and crimp until all pins are set. All pins should be fully compressed and of equal height after crimping.

Coaxial Cable Assembly Instructions



Recommended Tools:

Coaxial Cable Stripping Tool and Coaxial Connector Crimp Tool

Assembly Instructions for Three-piece BNC, TNC, N-type, and C-type Coaxial Connectors:

1. Refer to the connector manufacturer's specification and data sheets for the required strip dimensions and crimp size required to select the proper tools for use. The connector manufacturer specifies the sizes, not the cable or connector type.
2. Set-up the coaxial stripping tool to perform the proper strip of the outer jacket, shield, and inner dielectric as required by the connector manufacturer.
3. Strip the coaxial cable.
4. Slide the sleeve of the coaxial connector over the cable.
5. Ensure the center conductor length is accurate per the manufacturer's specification.
6. Attach the pin to the center conductor.
7. Crimp the pin using the proper crimp size in the crimp tool as specified by the connector manufacturer.
8. Flare the braided shield outward away from the dielectric.
9. Slide the connector shell over the pin and dielectric. The end of the connector should slide under the braided shield. The connector should "snap" into place when the pin is seated properly into the connector.
10. Slide the sleeve over the braided shield and connector end.
11. Crimp the sleeve using the proper crimp size in the crimp tool as specified by the connector manufacturer.

Assembly Instructions for Two-Piece BNC, TNC, N-type, C-type and CATV "F" Coaxial Connectors:

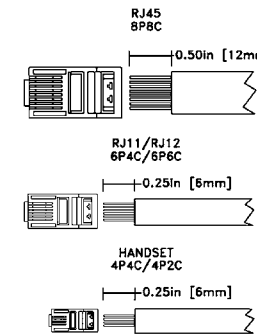
1. Refer to the connector manufacturer's specification and data sheets for the required strip dimensions and crimp size required to select the proper tools for use. The connector manufacturer specifies the sizes, not the cable or connector type.
2. Set-up the coaxial stripping tool to perform the proper strip of the outer jacket, shield, and inner dielectric as required by the connector manufacturer.
3. Strip the coaxial cable.
4. Slide the sleeve of the coaxial connector over the cable.
5. Flare the braided shield outward away from the dielectric.
6. Slide the connector shell over the center conductor and dielectric. The end of the connector should slide under the braided shield. The connector should "snap" into place when the center conductor is seated properly into the connector.
7. Slide the sleeve over the braided shield and connector end.
8. Crimp the sleeve using the proper crimp size in the crimp tool as specified by the connector manufacturer.

Assembly Instructions for One-Piece CATV "F" Coaxial Connectors:

1. Strip 1/4 inch (0.25" or 6 mm) off the outer jacket exposing the braid. The center conductor should be approximately 1/4 inch (0.25" or 6 mm) out from the dielectric as well.
2. Flare the braided shield outward away from the dielectric.
3. Slide the connector shell over the center conductor and dielectric. The end of the connector should slide under the braided shield.
4. Crimp the sleeve using the proper crimp size in the crimp tool as specified by the connector manufacturer.

Note: For some CATV "F" connectors, it is necessary to fold the braid back over the jacket. Contact the connector manufacturer to see if folding back the shield is required.

Telephone Cable Assembly Instructions



Assembly Instructions for telephone cable:

1. For 4- and 6-pin connectors: strip approximately 1/4 inch (0.25" or 6 mm) of the outer insulation off the cable. For 8- and 10-pin connectors: strip approximately 1/2 inch (0.5" or 12 mm) of the outer insulation off the cable.
2. Do not strip the insulation off the 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 and 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, and 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 and to engage the strain relief on the cable. All pins should be the same height and fully seated.