



F STANDARD CRIMPER



F & LARGE O.D. PRO CRIMPER



F COMPRESSION CRIMPER

F STANDARD CRIMPER

ITEM #	DESCRIPTION
TFC-4000	F STANDARD CRIMPER FOR RG59/62, 6 WITH HEX CRIMP. FEATURES PARALLEL ACTION AND NICKEL PLATED SURFACES

F & LARGE O.D PRO CRIMPERS

ITEM #	DESCRIPTION
TFC-4010	F PRO CRIMPER FOR RG59/62/6 WITH TENSION ADJUSTMENT - HEX SIZES .255", .322"
TFC-4020	LARGE O.D. PRO CRIMPER FOR RG8/11/213 WITH TENSION ADJUSTMENT - HEX SIZES .100", .322", .448"
TFC-4030	LARGE O.D. PRO CRIMPER FOR RG6/8/11 WITH TENSION ADJUSTMENT - HEX SIZES .100", .359", .406"

F COMPRESSION CRIMPER

ITEM #	DESCRIPTION
TFC-4040	F COMPRESSION TOOL FOR ATTACHING WEATHERPROOF COMPRESSION RG 59/RG6 F CONNECTORS. ALSO WORKS FOR MOST COMPETITIVE BRANDS OF COMPRESSION CONNECTORS

PLEASE SEE PAGE 43 FOR OUR FULL LINEUP OF F CONNECTORS - ALSO SEE PAGE 52 FOR COAX STRIPPERS



**Lifetime
Warranty**



PLEASE SEE PAGE 59 FOR CONNECTOR TO TOOL REFERENCE CHART

The QUEST Professional Ratchet Crimp Tool series provides installers the best choice in professional connector crimp tools. These tools are designed for durable use and provides long life dependability and consistent, reliable terminations, crimp after crimp. They feature a 10" frame design, which allows increased leverage during the crimp process with a ratchet action mechanism providing easy, repeatable and reliable crimps. The tools come complete with die sets, which are also interchangeable. **Lifetime warranted.**

RATCHET CRIMP TOOLS

ITEM #	DESCRIPTION	HEX SIZES
TRF-3000	USE FOR RG-58, 59/62 BNC/TNC 3PC. CONNECTORS	.255", .213", .068"
TRF-3001	USE FOR RG-58, RG-59/62AU BNC/TNC 2PC CONNECTORS	.305", .228", .068"
TRF-3030	USE FOR RG-8 N CONNECTORS	.429", .128", .100"
TRF-3020	USE FOR RG-59, RG-6 TYPE CONNECTORS	.350", .320", .255"
TRF-3035	USE FOR RG-58, RG-174, BELDEN 8218 3PC. CONNECTORS	.213", .178", .068", .042"
TRF-3040	USE FOR RG-59, RG-6 & BELDEN 8281 3PC CONNECTORS	.324", .255", .068", .042"
TRF-3045	USE FOR RG-6, RG-174 & BELDEN 8281 3PC. CONNECTORS	.324", .178", .068"
TRF-3015	USE FOR RG-58, RG-59/62 BNC/TNC, MINI-UHF CONNECTORS	.255", .213", .100", .068", .052"
TRF-3010	USE FOR RG-58, RG-59 PLENUM 3PC. CONNECTORS	.213", .190", .068", .042"
TRF-3050	USE FOR 10-22 AWG NON-INSULATED TERMINALS	GAUGE SIZE MARKINGS
TRF-3051	USE FOR 10-22 AWG INSULATED TERMINALS	COLOR CODED NESTS
TRF-3052	USE FOR 12-22 AWG NON-INSULATED OPEN BARREL CONTACTS & TERMINALS	GAUGE SIZE MARKINGS
TRF-3054	USE FOR FIBER CRIMP CONNECTORS	.213", .178", .151"
TRF-3056	USE FOR RG6 BNC, RG59 PLENUM F	.275", .213", .068"

INSTALLATION TOOLS



**Lifetime
Warranty**



SELF-ADJUSTING STRIPPERS



ADJUSTABLE STRIPPER TCS-5040



ADJUSTABLE STRIPPER TCS-5030



ADJUSTABLE STRIPPER TCS-5020



4-WAY COAX/UTP/WIRE STRIPPER

QUEST offers a comprehensive selection of coaxial cable stripping tools that allow the installer proper cable prepping prior to connectorization. These range from adjustable to self-adjusting designs for a wide range of cable sizes.

SELF-ADJUSTING STRIPPERS

ITEM #	DESCRIPTION
TCS-5000	2-CUT SELF-ADJUSTING COAX STRIPPER FOR RG-58, RG-59/62, RG-6 CABLES
TCS-5010	3-CUT SELF-ADJUSTING COAX STRIPPER FOR RG-58, RG-59/62, RG-6 CABLES

ADJUSTABLE STRIPPERS

ITEM #	DESCRIPTION
TCS-5020	2-BLADE STANDARD ADJUSTABLE COAX STRIPPER FOR RG-58, RG-59/62, RG-6, RG-6 QUAD SHIELD
TCS-5030	3-BLADE STANDARD ADJUSTABLE COAX STRIPPER FOR RG-58, RG-59/62, RG-6 CABLES
TCS-5040	3-BLADE STANDARD ADJUSTABLE COAX STRIPPER FOR LARGE O.D. RG-8, RG-11, RG-213 CABLES
TCS-5120	3-BLADE CARTRIDGE DELUXE ADJUSTABLE COAX STRIPPER FOR RG-58, RG-59, RG-6 WITH 3- BLADE CARTRIDGE
TEL-6100	4-WAY COAX/UTP/WIRE STRIPPER AND CUTTER

REPLACEMENT BLADES

ITEM #	DESCRIPTION
TSB-5021	RED 3-BLADE CARTRIDGE FOR TCS-5120 - STRIPS BRAID .328"
TSB-5022	GREEN 2-BLADE CARTRIDGE FOR TCS-5120 - STRIPS BRAID .480"
TSB-5023	BLUE 2-BLADE CARTRIDGE FOR TCS-5120 - STRIPS BRAID .250"



DELUXE ADJUSTABLE STRIPPER

QUEST offers a line of cable cutting tools designed to cut cables ranging in sizes from small O.D. to 2 inches in diameter. The cutters are manufactured with precision ground hardened carbon steel cutting edges for clean and undistorted cuts. Also offered is a cable tie installation tool which speeds up cable installation time. This tool is designed to ensure correct tension and provides automatic cut-off of the cable ties.

WIRE-CABLE CUTTERS

ITEM #	DESCRIPTION
TMI-1030	ROUND CABLE & WIRE CUTTER FOR CUTTING MULTI-CONDUCTOR CABLE UP TO .5" AND STRANDED OR SOLID WIRE UP TO 8 AWG. FEATURES SOFT HANDLES, LOCKING LATCH AND BUILT-IN RETURN SPRING
TMI-1031	FOR CUTTING UP TO 100 PAIR GROUP TELEPHONE CABLE AND SMALL THROUGH LARGE O.D. COAXIAL CABLE - FEATURES SOFT HANDLES, LOCKING LATCH AND BUILT-IN RETURN SPRING
TMI-1040	RATCHET CABLE CUTTER FOR CUTTING LARGE O.D. (380mm ²) AND SMALLER HARD-DRAWN COPPER AND ALUMINUM CABLES. FEATURES HARDENED STEEL BLADES AND QUICK RELEASE MECHANISM

WIRE-TIE TOOL

ITEM #	DESCRIPTION
TMI-1015	CABLE-TIE INSTALLATION TOOL - TIE WIDTH FROM .1" TO .2" - AUTOMATIC TIE CUT-OFF-METAL FRAME CONSTRUCTION



ROUND CABLE & WIRE CUTTER



100 PAIR GROUP CUTTER



RATCHET CABLE CUTTER



CABLE TIE INSTALLATION TOOL



20-30 AWG Wire Stripper



10-22 AWG Wire Stripper

QUEST offers a series of wire stripping tools that provide accurate strips for wires ranging from 10 AWG to 30 AWG. These strippers are quality built and feature high-carbon steel finished with black oxide to prevent rust. Also TMI-1021 and TMI-1020 features a convenient table printed on the handle to convert AWG to millimeters.

WIRE STRIPPERS

ITEM #	DESCRIPTION
TMI-1021	20-30 AWG MULTI-GAUGE WIRE STRIPPER WITH BUILT-IN CUTTER AND WIRE GAUGE CONVERSION TABLE
TMI-1020	10-22 AWG MULTI-GAUGE WIRE STRIPPER WITH BUILT-IN CUTTER AND WIRE GAUGE CONVERSION TABLE
TMI-1025	WIRE STRIPPER & CUTTER FOR 10-24 AWG SOLID OR STRANDED WIRE - COMPACT 5" TOOL ADJUSTS QUICKLY TO ANY OF 8 WIRE SIZES



Wire Stripper & Cutter

For punch-down cable terminations, QUEST offers a wide variety of tools to do the job right. Starting with the economical UTP stripper with self-contained 110 punchdown blade tip to the multi-pair impact punch-down tool capable of seating 5 pairs at a time, QUEST has the right tool for installers.

PUNCH DOWN TOOLS

ITEM #	DESCRIPTION
TEL-6110	ECONOMY UTP STRIPPER WITH 110 PUNCH-DOWN BLADE TIP
TEL-6070	NON-IMPACT PUNCH TOOL WITH 66/110 BLADE (PUNCH ONLY)
TEL-6080	IMPACT PUNCH-TOOL WITH 110 BLADE (PUNCH AND CUT) - IMPACT ADJUSTMENT AND BLADE STORAGE
TEL-6090	PRO GRADE PUNCH-TOOL WITH 110 TWIST-LOCK BLADE (PUNCH AND CUT) - ADJUSTABLE HIGH-LOW ACTUATION SETTING AND LOCKING STORAGE COMPARTMENT
TEL-6120	MULTI-PAIR IMPACT PUNCH-DOWN TOOL SEATS UP TO 5 PAIRS WITH ONE ACTION - SUITABLE FOR 110 CROSS - CONNECT TERMINAL BLOCKS - REVERSIBLE TERMINATION BLOCK FOR PUNCH AND CUT OR PUNCH ONLY

REPLACEMENT BLADES

ITEM #	DESCRIPTION
TEL-6085	110 PUNCH/PUNCH-CUT BLADE FOR TEL-6070, TEL-6080
TEL-6097	66 PUNCH/PUNCH-CUT TWIST-LOCK BLADE FOR TEL-6090
TEL-6098	110 PUNCH/PUNCH-CUT TWIST-LOCK BLADE FOR TEL-6090
TEL-6099	KRONE PUNCH/PUNCH-CUT TWIST-LOCK BLADE FOR TEL-6090



**ECONOMY UTP STRIPPER
w/110 BLADE**



**NON-IMPACT PUNCH TOOL
w/66-110 BLADE**



**IMPACT PUNCH-DOWN TOOL
w/110 BLADE**



**PRO GRADE IMPACT PUNCH-DOWN TOOL
w/110 BLADE**



MULTI-PAIR IMPACT PUNCH-DOWN TOOL



ECONOMY 4C & 6C MODULAR CRIMPER



ECONOMY 8C MODULAR CRIMPER



**INSTALLER GRADE 4C, 6C & 8C
MODULAR CRIMPER**

QUEST offers a comprehensive selection of modular plug crimp tools that provide reliable electrical and mechanical connections. Included are models ranging from economical to high-end designs. Tools vary in size applications from 4-contact handset to 10 position/10 contact sizes.

ECONOMY LINE

ITEM #	DESCRIPTION
TEL-6040	CRIMPS 6P2C, 6P4C RJ-11, 6P6C RJ-12. FEATURES HARDENED STEEL FRAME WITH CUTTING AND STRIPPING BLADES
TEL-6050	CRIMPS 8P8C RJ-45. FEATURES HARDENED STEEL FRAME WITH CUTTING AND STRIPPING BLADES

INSTALLER GRADE WITH RATCHET

ITEM #	DESCRIPTION
TEL-6030	CRIMPS 6P4C RJ-11, 6P6C RJ-12, 8P8C RJ-45 WITH RATCHET MECHANISM INSTALLER GRADE STEEL FRAME IS LIGHT WEIGHT AND DURABLE



For heavy-duty termination use, QUEST provides a selection of high-quality modular crimp tools designed for high repeatability applications such as assembly operations or for the installation professional that demands guaranteed results. This series includes ratchet and non-ratchet mechanism designs and are offered for most modular connector sizes.

NON RATCHET MECHANISM

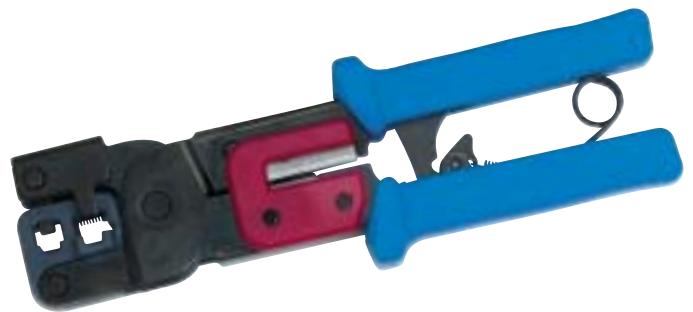
ITEM #	DESCRIPTION
TEL-6000	CRIMPS 6P4C RJ-11, 6P6C RJ-12, 8P8C RJ-45. FEATURES CABLE CUTTER AND STRIPPER, HEAT-TREATED CARBON STEEL FRAME AND SAFETY BLADE GUARD

WITH RATCHET MECHANISM

ITEM #	DESCRIPTION
TEL-6001	CRIMPS 6P4C RJ-11, 6P6C RJ-12, 8P8C RJ-45. FEATURES RATCHET MECHANISM, CABLE CUTTER AND STRIPPER, HEAT-TREATED CARBON STEEL FRAME AND SAFETY BLADE GUARD
TEL-6020	CRIMPS 4P2C/4P4C HANDSET, 6P4C RJ-11, 6P6C RJ-12, DEC OFFSET 6P6C, AMP 8P8C RJ-45 10P10C. FEATURES RATCHET MECHANISM WITH SAFETY RELEASE, STRAIGHT MOTION DIE MECHANISM FOR PRECISE CRIMPS AND BUILT-IN CUTTER AND STRIPPER



**Pro 4C, 6C & 8C
MODULAR CRIMPER**



**Pro 4C, 6C & 8C
MODULAR RATCHET CRIMPER**



**Pro 2C, 4C, 6C, 6DEC, 8C 10C
MODULAR RATCHET CRIMPER**





LINEMAN'S TEST SET



TONE GENERATOR



AMPLIFIER PROBE

QUEST provides several quality products for installers of telephone, data and security cables. These include a rugged lineman's test set, an amplifier probe for tracing wiring and a tone generator for locating and identifying cable pairs or conductors individually. These are quality products designed for professional use.

LINEMAN'S TEST SET

ITEM #	DESCRIPTION
TTE-2000	LINEMAN'S TEST SET WITH TMF AND PULSE MODE SELECTIVITY. ALSO FEATURES LAST NUMBER REDIAL, HIGH/LOW IMPEDANCE MONITOR AND RINGING. RUGGED AND IMPACT RESISTANT CASE FEATURES A SPRING-LOADED BELT CLIP. INCLUDED IS A PVC INSULATED TINSEL WIRE TEST CORD WITH PIERCING ALLIGATOR CLIPS WITH BED OF NAILS.

**AMPLIFIER PROBE -
TONE GENERATOR**

ITEM #	DESCRIPTION
TTE-2100	AMPLIFIER PROBE AND TONE GENERATOR SET INCLUDES BOTH UNITS IN ZIPPERED CARRY CASE. THE AMPLIFIER PROBE IS DESIGNED TO IDENTIFY AND TRACE WIRES. IT FEATURES A VOLUME CONTROL AND RECESSED ON/OFF SWITCH. THE TONE GENERATOR FEATURES SELECTABLE SINGLE OR DUAL ALTERNATING TONE, A 3-COLOR LED FOR LINE POLARITY, CONTINUITY AND VOLTAGE TESTING. INCLUDED ARE A TEST LEAD SET AND RJ-11 4 CONDUCTOR CORD AND PLUG.
TTE-2101	AMPLIFIER PROBE ONLY
TTE-2102	TONE GENERATOR ONLY

QUEST provides a connectorization kit, which contains the tools and supplies necessary to terminate fiber connectors. All products are packaged in a hard case with instruction book.

ITEM #	DESCRIPTION
NFK-7000	FIBER OPTIC TERMINATION KIT

The kit contains the following:

- 1- ABS CASE • 1- 100x MICROSCOPE • 1- 5" SCISSORS
- 1- BUFFER STRIPPER • 1- JACKET STRIPPER
- 1- RATCHET CRIMP TOOL W/DIE
- 1- ROUND CABLE SLITTER • 1- DIAMOND SCRIBE
- 1- GLASS POLISH PAD • 10- 3 IN 1 POLISH FILM
- 1- SC POLISH DISC • 1- ST POLISH DISC
- 1- WIPE PAPER
- 1- UV ADHESIVE FOR FIBER CABLE
- 5- EPOXY 353ND • 1- TAPE ROLL - GRAY
- 1- ALCOHOL BOTTLE • 1- PLASTIC WORK PAD • 5- SYRINGES
- 2- COMPONENT STORAGE BOXES • 1- INSTRUCTION MANUAL



CONNECTOR TO TOOL REFERENCE CHART

QUEST ITEM #	DIE SIZE (S)	ECONOMY CRIMPER	DELUXE CRIMPER	QUEST ITEM #	DIE SIZE (S)	ECONOMY CRIMPER	DELUXE CRIMPER
CBB-2210	.305/.255			CBN-3120	.305/.068		TRF-3001
CBB-2211	.305/.228		TRF-3001 (DIE 3000)	CBN-3121	.190/.068		TRF-3010
CBB-2214	.305/.255		TRF-3001	CBN-3210	.255/.068		TRF-3000
CBB-2219	.190/.068		TRF-3001 (DIE 3000)	CBN-3212	.228/.068		TRF-3001
CBB-2220	.350/.320		TRF-3010	CBN-3214	.305/.068		TRF-3001
CBB-3210	.255/.068		TRF-3020	CFC-7111	.324	TFC-4020	TRF-3040
CBB-3211	.228/.068		TRF-3000	CFC-7112	.275		TRF-3056
CBB-3214	.275/.068		TRF-3001	CFC-7114	.324	TFC-4020	TRF-3040
CBB-3219	.190/.068		TRF-3056	CFC-7115	.324	TFC-4020	TRF-3040
CBB-3220	.305/.068		TRF-3010	CFC-7118	.470	TFC-4035	
CBN-2110	.305/.255		TRF-3001	CFC-7119	.448	TFC-4020	
CBN-2111	.305/.228		TRF-3001 (DIE 3000)	CFC-7123	.324	TFC-4020	TRF-3040
CBN-2112	.305/.228		TRF-3001	CFC-7124	.324	TFC-4020	TRF-3040
CBN-2114	.305/.275		TRF-3001	CFC-7214	.324	TFC-4020	TRF-3040
CBN-2115	.305/.255		TRF-3001 (DIE 3056)	CFC-7314	.324	TFC-4020	TRF-3040
CBN-2120	.350/.320		TRF-3001 (DIE 3000)	CFC-8110			TFC-4040
CBN-2122	.305/.128		TRF-3020	CFC-8114			TFC-4040
CBN-3105	.255/.068		TRF-3001 (DIE 3030)	CMU-3112	.228/.068		TRF-3000
CBN-3110	.255/.068		TRF-3000	CNC-3212	.228/.068		TRF-3000
CBN-3111	.228/.068		TRF-3000	CNC-3022	.406/.100	TFC-4030	
CBN-3112	.213/.068		TRF-3001	CNC-3112	.213/.068		TRF-3000
CBN-3113	.190/.068		TRF-3000	CPC-7125	.324	TFC-4020	TRF-3040
CBN-3114	.275/.068		TRF-3010	CTN-2112	.213/.042		TRF-3010
CBN-3116	.213/.100/.052		TRF-3056	CUF-6220	.190/.042		TRF-3010
CBN-3118	.410/.096	TFC-4035	TRF-3015				



MINI 2-WAY SPLITTER



2-WAY SPLITTER



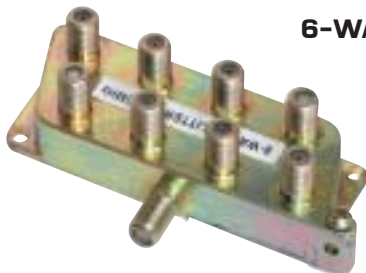
3-WAY SPLITTER



4-WAY SPLITTER



6-WAY SPLITTER



8-WAY SPLITTER

For TV signal management, QUEST provides a comprehensive selection of 5-900MHz signal splitters. This series feature high-strength zinc die-cast housings, anticorrosive finish and precision threads. Mounting screws are provided.

ITEM #	DESCRIPTION
VSP-1210	2-WAY 5-900MHz SPLITTER IN MINI HOUSING
VSP-1220	2-WAY 5-900MHz SPLITTER IN STANDARD HOUSING
VSP-1320	3-WAY 5-900 MHz SPLITTER IN STANDARD HOUSING
VSP-1420	4-WAY 5-900MHz SPLITTER IN STANDARD HOUSING
VSP-1620	6-WAY 5-900MHz SPLITTER IN LARGE HOUSING
VSP-1820	8-WAY 5-900MHz SPLITTER IN LARGE HOUSING

SPECIFICATIONS

Parameter	Frequency (MHz)	2-Way	3-Way	4-Way	6-Way	8-Way
Insertion Loss IN-OUT (dB Max)	5-300	2.8	3.2	6.7	9.1	10.1
	300-450	3.0	3.4	7.2	9.9	10.8
	450-600	3.3	3.5	7.5	10.3	11.3
	600-900	3.5	3.8	7.8	10.8	12.0
Return loss Input (dB Min.)	5-300	12	11	12	12	12
	300-450	14	12	15	13	13
	450-600	15	15	13	15	14
	600-900	12	12	11	12	12
Return loss Output (dB Min.)	5-300	12	12	15	11	12
	300-450	15	13	12	12	15
	450-600	13	15	11	12	15
	600-900	12	12	12	11	13
Isolation Output (dB Min.)	5-300	25	22	24	23	25
	300-450	28	25	25	25	26
	450-600	26	25	24	22	24
	600-900	25	23	23	22	24
Impedance RFI (dB)	500 mA	75ohm	75ohm	75ohm	75ohm	75ohm
	5-900	85dB	85dB	85dB	85dB	85dB

For high frequency applications such as broadband CATV, MATV, SMATV and MMDS systems, QUEST offers high quality splitters and directional couplers featuring 5 to 1000 MHz frequency range. These products also feature high quality tin plated zinc die-cast housings with PC board component design, solder back housing allowing -130dB RFI shielding. All ports are DC blocked.

SPLITTERS

ITEM #	DESCRIPTION
VSP-2220	2-WAY 1 GHz SPLITTER - SOLDER-BACK - 130dB RFI SHIELDING - DC POWER BLOCK
VSP-2320	3-WAY 1 GHz SPLITTER - SOLDER-BACK - 130dB RFI SHIELDING - DC POWER BLOCK
VSP-2420	4-WAY 1 GHz SPLITTER - SOLDER-BACK - 130dB RFI SHIELDING - DC POWER BLOCK

DIRECTIONAL COUPLERS

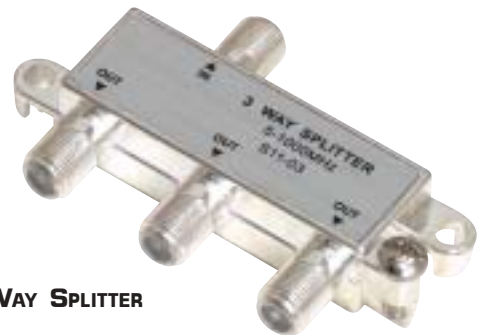
ITEM #	DESCRIPTION
VTP-1106	6dB 1 GHz 1-WAY TAP
VTP-1109	9dB 1 GHz 1-WAY TAP
VTP-1112	12dB 1 GHz 1-WAY TAP
VTP-1116	16dB 1 GHz 1-WAY TAP
VTP-1120	20dB 1 GHz 1-WAY TAP
VTP-1124	24dB 1 GHz 1-WAY TAP
VTP-1127	27dB 1 GHz 1-WAY TAP
VTP-1130	30dB 1 GHz 1-WAY TAP

SPECIFICATIONS SPLITTERS

Parameter	Frequency (MHz)	2-Way	3-Way	4-Way
Insertion Loss (dB Max)	5-4	3.2	5.3	6.7
	4-400	3.2	5.5	6.9
	400-600	3.3	5.8	7.5
Return loss Input (dB Min.)	600-1000	3.5	6.5	7.8
	5-4	24	22	22
	4-400	30	24	24
Return loss Output (dB Min.)	400-600	28	25	25
	600-1000	24	24	23
	5-4	22	21	24
Isolation Out-Out (dB Min.)	4-400	25	23	26
	400-600	28	25	25
	600-1000	24	22	23
Impedance RFI (dB)	5-4	26	28	24
	4-400	32	32	28
	400-600	28	28	24
Impedance RFI (dB)	600-1000	25	25	23
	500 mA	75ohm	75ohm	75ohm
	5-900	85dB	85dB	85dB



2-WAY SPLITTER



3-WAY SPLITTER



4-WAY SPLITTER



MINI DIRECTIONAL COUPLER

QUEST offers products for combining and separating various video signal applications. These include products that eliminate the need for switches and products that merge satellite and off-air TV signals.



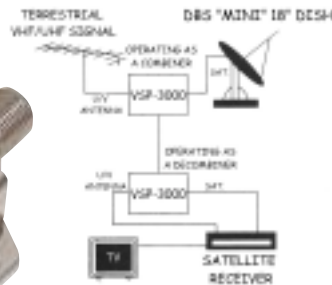
**VHF Low/Hi Band
SEPARATOR / COMBINER**



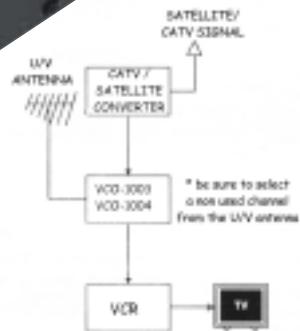
**UHF/VHF BAND
SEPARATOR / COMBINER**



**COMPACT
SEPARATOR / COMBINER**



SIGNAL COMBINER



ITEM #

DESCRIPTION

- VTP-3010 HIGH-LOW FREQUENCY SEPARATOR / JOINER - SEPARATES LOW (CH.2-6/FM) AND HIGH (CH.7-13) BANDS FROM 1 INPUT OR JOINS TO A SINGLE OUTPUT
- VTP-3020 UHF/VHF BAND SEPARATOR / JOINER

**SPECIFICATIONS
SEPARATOR/COMBINER**

VTP-3010

- BANDWIDTH: 54-216 MHz
- LOW BAND REJECTION : 20dB (CH.2-6/FM)
- HIGH BAND REJECTION: 20dB (CH.7-13)
- INSERTION LOSS: 0.5dB
- IMPEDANCE: 75 OHMS
- POWER PASSIVE: LOW BAND ONLY

VTP-3020

- BANDWIDTH: 54-890MHz
- VHF BAND REJECTION: 23dB MIN.
- UHF BAND REJECTION: 30dB MIN.
- INSERTION LOSS VHF: 0.5dB
- INSERTION LOSS UHF: 0.8dB
- IMPEDANCE: 75 OHM
- POWER PASSIVE: VHF ONLY

SATELLITE DIPLEXER

ITEM #

DESCRIPTION

- VSP-3000 COMPACT SATELLITE DIPLEXER/COMBINER DIE CAST HOUSING

Frequency	Range	40-2150MHz
Insertion Loss	IN/OUT-TV	40-860MHz: 1.5±1.0dB
	IN/OUT-SAT	40-860MHz: 20 dB
	IN/OUT-TV	950-2150MHz: 15dB
	IN/OUT-SAT	950-2150MHz: 2±2dB
DC-Pass	IN/OUT-TV	NONE
	IN/OUT-SAT	500ma MAX

SIGNAL COMBINERS

ITEM #

DESCRIPTION

- VCO-1003 CHANNEL 3 SIGNAL COMBINER
- VCO-1004 CHANNEL 4 SIGNAL COMBINER

Video switching devices are necessary when selecting a single signal to two TV's or video devices or when two signal inputs need to be connected to a single TV or video device. QUEST offers 2 models of these commonly called A-B switches.

QUEST also offers RF modulators, which are used to convert composite video and audio signals such as cameras, satellite receivers, computer games and VCR's to modulated RF (Radio Frequency) signals, which are compatible with antenna connections on TV's

A-B SWITCHES

ITEM #	DESCRIPTION
VAB-1000	ECONOMY A-B SWITCH -MEDIUM ISOLATION HIGH RELIABILITY SWITCH
VAB-2000	DELUXE PUSH-BUTTON A-B SWITCH HIGH-SHIELDING - HIGH ISOLATION

R.F. MODULATORS

ITEM #	DESCRIPTION
VCO-1100	R.F. MODULATOR FOR CHANNEL 3-4 SELECTABLE OUTPUT
VCO-1110	UHF MODULATOR WITH ADJUSTABLE OUTPUT CHANNELS 14-32

**SPECIFICATIONS
MODULATORS**

VCO-1100

- FREQUENCY RANGE: VHF CH.3-4 SELECTABLE
- VIDEO INPUT: COMPOSITE NTSC NEGATIVE SYNC
- OUTPUT IMPEDANCE: 75 OHM
- OUTPUT LEVEL: 10dBmv
- FREQUENCY STABILITY: VIDEO: 250KHz (0.5%)
AUDIO: ± 3KHz

VCO-1110

- FREQUENCY RANGE: UHF CH. 14-32 ADJUSTABLE
- VIDEO INPUT: COMPOSITE NTSC NEGATIVE SYNC
- OUTPUT IMPEDANCE: 75 OHM
- OUTPUT LEVEL: 10dBmv



2-WAY A/B SWITCH



**HEAVY DUTY 2-WAY
A/B SWITCH**



VHF RF MODULAR



UHF RF MODULAR

VAM-2110



VAM-1412



VAM-2125



VAM-2130



QUEST offers a series of signal amplifiers designed to boost RF signal levels where low-level signals are present or where distribution for multiple TV's is required. Several models are available with various amplification, bandwidth and distribution designs for residential and small building applications.

AMPLIFIERS

ITEM #	DESCRIPTION
VAM-2110	10dB VHF/UHF 1 OUTPUT SIGNAL AMPLIFIER
VAM-1412	18dB VHF-UHF 4 OUTPUT SIGNAL AMPLIFIER /SPLITTER
VAM-2125	25dB VHF-UHF 1 OUTPUT WITH GAIN CONTROL
VAM-2130	6dB 1GHz 2-OUTPUT CABLE TV AMPLIFIER
VAM-4000	20dB 950-2150MHz IN-LINE AMP FOR SATELLITE REQUIRES POWER INSERTER

SPECIFICATIONS
AMPLIFIERS

MODEL	GAIN (dB)		NOISE FIGURE (dB)	MAX. INPUT (dBmV)	
	VHF	UHF		VHF	UHF
VAM-2110	10	7	7	32	20
VAM-1412	18	14	7	30	20
VAM-2125	25	21	6	40	20
VAM-2130	6	3	7	32	20

IN-LINE AMPLIFIER

MODEL	GAIN (dB) (950-2150 MHz)	NOISE	VSWR	POWER REQUIRED
VAM-4000	12 - 20 dB	6 dB	2.5:1	15-18 VDC



VAM-4000

In addition to our expanded line of CATV/MATV products, QUEST provides a series of impedance matching transformers, both for indoor and outdoor applications. Also offered are grounding blocks, nailable cable clips and feed-through cable bushings for RG-59 and RG-6 sizes.

MATCHING TRANSFORMERS

ITEM #	DESCRIPTION
VMT-1000	75-300 OHM INDOOR MATCHING TRANSFORMER
VMT-2000	75-300 OHM WEATHERPROOF MATCHING TRANSFORMER WITH #10 WIRE LEADS
VMT-3000	75-300 OHM WEATHERPROOF MATCHING TRANSFORMER WITH 300 OHM TWIN-LEAD

GROUNDING BLOCKS

ITEM #	DESCRIPTION
VGB-1001	SINGLE GROUNDING BLOCK WITH ZINC DIE-CAST F COUPLER
VGB-1002	DUAL GROUNDING BLOCK WITH 2 ZINC DIE-CAST F COUPLERS

CABLE CLIPS

ITEM #	DESCRIPTION
VCC-1101	WHITE RG-59 CABLE CLIP WITH 1" NAIL
VCC-1102	BLACK RG-59 CABLE CLIP WITH 1" NAIL
VCC-2101	WHITE RG-6 CABLE CLIP WITH 1" NAIL
VCC-2102	BLACK RG-6 CABLE CLIP WITH 1" NAIL

CABLE BUSHINGS

ITEM #	DESCRIPTION
VCC-4104	WHITE RG-59 CABLE BUSHING
VCC-4103	BLACK RG-59 CABLE BUSHING
VCC-4101	WHITE RG-6 CABLE BUSHING
VCC-4102	BLACK RG-6 CABLE BUSHING



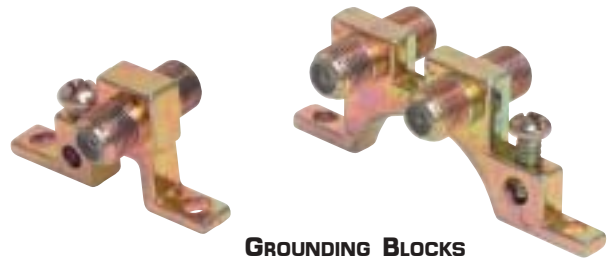
INDOOR MATCHING TRANSFORMER



OUTDOOR MATCHING TRANSFORMER W/#10 LEADS



OUTDOOR MATCHING TRANSFORMER W/TWIN-LEADS



GROUNDING BLOCKS



CABLE CLIPS



FEED-THRU CABLE BUSHINGS



For connecting and patching video and audio signals, QUEST offers Video/Audio dubbing and S-VHS cable assemblies. The dubbing cables are available in various lengths and in mono or stereo configurations. They are manufactured with high-quality cables and each end is clearly marked with audio channels and video designations. The connector ends are gold plated for improved contact characteristics and over molded with cable strain reliefs. The S-VHS Mini-Din4 to Mini-Din4 cables also feature gold plated connectors and are made with high quality cable.

DUBBING CABLES

ITEM #	DESCRIPTION
VCA-4203	3' MONO VIDEO/AUDIO DUBBING CABLE 1 RCA-RCA FOR AUDIO, 1 RCA-RCA FOR VIDEO GOLD PLATED CONNECTORS
VCA-4206	6' MONO VIDEO/AUDIO DUBBING CABLE 1 RCA-RCA FOR AUDIO, 1 RCA-RCA FOR VIDEO GOLD PLATED CONNECTORS
VCA-4212	12' MONO VIDEO/AUDIO DUBBING CABLE 1 RCA-RCA FOR AUDIO, 1 RCA-RCA FOR VIDEO GOLD PLATED CONNECTORS
VCA-3203	3' STEREO VIDEO/AUDIO DUBBING CABLE 2 RCA-RCA FOR AUDIO, 1 RCA-RCA FOR VIDEO GOLD PLATED CONNECTORS
VCA-3206	6' STEREO VIDEO/AUDIO DUBBING CABLE 2 RCA-RCA FOR AUDIO, 1 RCA-RCA FOR VIDEO GOLD PLATED CONNECTORS
VCA-3212	12' STEREO VIDEO/AUDIO DUBBING CABLE 2 RCA-RCA FOR AUDIO, 1 RCA-RCA FOR VIDEO GOLD PLATED CONNECTORS

S-VHS CABLES

ITEM #	DESCRIPTION
VCA-5206	6' MINI-DIN4 MALE TO MINI-DIN4 MALE
VCA-5212	12' MINI-DIN4 MALE TO MINI-DIN4 MALE
VCA-5225	25' MINI-DIN4 MALE TO MINI-DIN4 MALE
VCA-5250	50' MINI-DIN4 MALE TO MINI-DIN4 MALE



MONO DUBBING CABLES



STEREO DUBBING CABLES



S-VHS CABLES



STEREO SHIELDED AUDIO CABLE



3.5MM MALE TO 2 RCA JACKS



1 RCA PLUG TO 2 RCA JACKS



2 RCA PLUGS TO 1 RCA JACK

For audio patching applications, QUEST offers a selection of mono and stereo cable assemblies as well as a selection of "Y" cables that allow splitting or combining audio channels. These are offered in various configurations and lengths.

AUDIO CABLES

ITEM #	DESCRIPTION
VCA-4106	6' MONO RCA MALE TO RCA MALE SHIELDED CABLE
VCA-4112	12' MONO RCA MALE TO RCA MALE SHIELDED CABLE
VCA-3103	3' STEREO RCA MALE TO RCA MALE SHIELDED CABLE
VCA-3106	6' STEREO RCA MALE TO RCA MALE SHIELDED CABLE
VCA-3112	12' STEREO RCA MALE TO RCA MALE SHIELDED CABLE
VCA-3125	25' STEREO RCA MALE TO RCA MALE SHIELDED CABLE
ADAPTER CABLES	
ITEM #	DESCRIPTION
VCA-7010	Y CABLE - STEREO 3.5mm MINI PLUG TO TWO RCA JACKS - SHIELDED
VCA-7020	Y CABLE - 2 RCA MALE PLUGS TO 1 RCA JACK - SHIELDED
VCA-7030	Y CABLE - 1 RCA PLUG TO 2 RCA JACKS - SHIELDED



Mono Shielded Audio

The QUEST series of flush-mounted video and satellite wall plates are offered with smooth finish faces for residential TV signal outlets. These include pre-installed feed through F connectors for connecting terminated F cables inside the box and externally for the hook-up. Most wall plates are offered in white and ivory and all fit into any standard single gang electrical box. Also offered are the dual combination wall plates with an RJ-11 4 contact telephone modular jack and F connector for video used in all DBS satellite connections.

ITEM #	DESCRIPTION
VWP-1101	F WALL PLATE - IVORY SMOOTH FINISH - WITH F-81 CONNECTOR
VWP-1102	F WALL PLATE - WHITE SMOOTH FINISH - WITH F-81 CONNECTOR
VWP-2102	DUAL F WALL PLATE - WHITE SMOOTH FINISH - WITH 2 F-81 CONNECTORS
NTP-1901	COMBO RJ-11 4C PHONE JACK WITH F-81 VIDEO CONNECTOR - IVORY - SMOOTH FINISH
NTP-1902	COMBO RJ-11 4C PHONE JACK WITH F-81 VIDEO CONNECTOR - WHITE - SMOOTH FINISH

**PLEASE SEE PAGES 70 AND 71 FOR
OUR FULL LINE OF DÉCOR STYLE
RESIDENTIAL HOME THEATER SERIES
WALL PLATES**



WALL PLATES WITH SINGLE F CONNECTOR



WALL PLATES WITH DUAL F CONNECTORS



COMBO 4C PHONE/F-81 WALL PLATES



1 PAIR BINDING POST



2 PAIR BINDING POST



1 PAIR BANANA JACKS



2 PAIR BANANA JACKS



DUAL RCA JACKS



TRIPLE RCA JACKS



1 F-81/DUAL RCA JACKS



1 F-81/TRIPLE RCA JACKS

Today's residential building environments are including pre-wiring for in-home data networking and home theater entertainment. QUEST provides a complete selection of décor style wall plates designed for home theater interconnects. All items are packaged complete with single gang faceplates.

ITEM #	DESCRIPTION
VHT-9000	1 PAIR BINDING POSTS - RED/BLACK - GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9010	2 PAIR BINDING POSTS - RED/BLACK - GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9020	1 PAIR BANANA JACKS - RED/BLACK - GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9030	2 PAIR BANANA JACKS - RED/BLACK - GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9040	DUAL RCA JACKS - RED/BLACK - GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9050	TRIPLE RCA JACKS - RED/BLACK - GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9060	2 RCA JACKS / 1 F-81 CONNECTOR - RCA JACKS CODED RED/BLACK-GOLD PLATED - WHITE - INCLUDES FACEPLATE
VHT-9070	3 RCA JACKS / 1 F-81 CONNECTOR - RCA JACKS CODED RED/BLACK/YELLOW - GOLD PLATED - WHITE - INCLUDES FACEPLATE

In addition to the line of Home Theater wall outlets, QUEST offers single, dual and triple gang faceplates where multiple outlets are required. These faceplates are also compatible with QUEST's modular keystone data/voice jack module on page 9.

ITEM #	DESCRIPTION
VHT-9080	SINGLE F GOLD PLATED VIDEO - WHITE - INCLUDES FACEPLATE
VHT-9090	DUAL F GOLD PLATED VIDEO - WHITE - INCLUDES FACEPLATE
VHT-9095	SINGLE UNLOADED 3-HOLE INSERT MODULE - WHITE - INCLUDES FACEPLATE
VHT-9100	SINGLE GANG DÉCOR FACEPLATE ONLY - WHITE
VHT-9200	DUAL GANG DÉCOR FACEPLATE ONLY - WHITE
VHT-9300	TRIPLE GANG DÉCOR FACEPLATE ONLY - WHITE



SINGLE F-81



DUAL F-81



SINGLE GANG FACEPLATE



**UNLOADED INSERT
MODULE**



TRIPLE GANG FACEPLATE



DUAL GANG FACEPLATE

**PLEASE SEE PAGE 69 FOR OTHER
VIDEO AND SATELLITE WALL PLATES**

ATM (Asynchronous transfer mode) Technology selected by ITU, for broadband ISDN. This communication framework is designated by the ATM forum for 155 Mb/s transmitted over twisted pair UTP (unshielded twisted pair) or STP (shielded twisted pair) cable and optical cabling at various bit rates for both LAN and WAN applications.

Attenuation Generally expressed in decibels, it is a measure of reduced power or amplitude of a transmitted signal.

ACR (Attenuation to Cross talk Ratio) The measured difference between attenuation and cross talk.

Cabling The part of the telecommunications infrastructure comprised of cables, wire, cords and connecting hardware.

Channel The entire path connecting any two points where specific application equipment is joined. The physical equipment and cabling at the work area is all part of the channel.

Coaxial Cable A cable type consisting of an inner conductor sheathed by an insulator that is sheathed by an outer shielding commonly used for CATV and MATV applications.

Cross Connect Also known as a distributor; the area allowing the termination of cabling and other interconnect products or cross-connections with other cabling or equipment.

Cross talk Generally expressed in decibels, the measured noise or interference effected by electromagnetic coupling from one path of signal to another.

Decibel (dB) A standard unit for expressing increased or decreased transmission strength as derived from a ratio of power or signal amplitudes.

Demarcation Point (DP) The point at which ownership or operational control changes.

ELFEXT (Equal Level Far-end Cross talk) Measured cross talk levels at the opposite end from the signal distribution point where signal is transmitted normalized by the contributed attenuation of the cabling.

FEXT (Far end Cross talk) Measured cross talk levels at the opposite end from the distribution point where signal is transmitted.

Gain A measure of amplification expressed in dB.

Gigahertz (GHz) One billion cycles per second. Signals operating above 3 Gigahertz are known as microwave.

Horizontal Cabling The inclusive cabling between the telecommunications outlet and the horizontal cross connect.

Link End to End transmission path supported by the cabling infrastructure. Links include all hardware and supporting cabling that makes up the backbone / horizontal subsystems. Work area and equipment cabling are not part of the link.

Modular Jack Typically mounted in a fixed location with 4, 6 or 8 contacts, a female type Telecommunications interface connector as specified in IEC 603-7 and FCC Part 68 Subpart F.

Modular Plug Having either 4, 6 or 8 contacts a male type Telecommunications interface connector as specified in IEC 603-7 and FCC Part 68 Subpart F.

Multimedia Communication of information by more than one type of cabling media. i.e. CATV, Satellite, Video...

MUTOA (Multi-user Telecommunications Outlet Assembly) One location serving several telecommunications outlet connections.

NEXT (Near end Cross talk) Measurement of cross talk taken at the end from where the signal is transmitted.

Patch Cord A length of cable joining telecommunications links at a cross-connect built with connectors at one or both ends.

Patch Panel A connection between horizontal and backbone cabling in a fixed arrangement that is accessible via patch cords or equipment cords to create a cross-connection or interconnection.

Power Sum 4 pair cable testing where the mathematical sum of pair-to-pair cross talk generated by 3 pairs to 1 pair is measured.

Return Loss Expressed in decibels, a measure of noise or interference caused by impedance discontinuities across the transmission line at different frequencies.

Telecommunications Sending, receiving, or emitting of any of an array of signal types including writings, images, sounds, or information of any type via cable, visual, optical or other electromagnetic systems.

UTP (Unshielded Twisted Pair) A multiple number of pairs of insulated copper conductors bound in a single sheath.

a

Active Network, Fiber Converters 21
 Active Network, Hubs 18, 19, 20
 Active Network, Interface Cards 19
 Active Network, Media Converters 21
 Active Network, Switches 18, 19, 20
 Active Network, Transceivers 21
 Adapters, RF Coax 46, 47, 48, 49

b

Bezels, Keystone 3, 8.
 Boxes, Surface Mount Telephone 29
 Boxes, Surface Mount Data 10, 11

c

Cabinets, Equipment..... 26.
 Cable Assemblies, Audio Cables..... 68.
 Cable Assemblies, Audio/Video Dubbing..... 67
 Cable Assemblies, BNC to BNC..... 66
 Cable Assemblies, F to F..... 66
 Cable Assemblies, S-VHS..... 67
 Cable Cutters..... 53
 Cable Ties, Hook and Loop..... 23
 Cables Ties, Nylon..... 23
 CATV/MATV, A-B Switches..... 63
 CATV/MATV, Cable Clips..... 65
 CATV/MATV, Directional Taps..... 61
 CATV/MATV, F Wall plates..... 69
 CATV/MATV, Feed Through Bushing..... 65
 CATV/MATV, Grounding Blocks..... 65
 CATV/MATV, Decor Wall plates..... 70, 71
 CATV/MATV, Matching Transformers..... 65
 CATV/MATV, RF Modulators..... 63
 CATV/MATV, Signal Combiners..... 62
 CATV/MATV, Splitters..... 60, 61
 CATV/MATV, Video Amplifiers..... 64
 Computer, Cable Assemblies..... 32, 33
 Computer, Switch Boxes..... 31
 Connector to Tool Reference Chart..... 59
 Connectors, BNC 50 OHM Crimp..... 36, 37
 Connectors, BNC 75 OHM Series..... 38
 Connectors, BNC Chassis Mount..... 39
 Connectors, BNC PC Mount..... 39
 Connectors, BNC Twist-On..... 37
 Connectors, F Chassis Mount..... 45
 Connectors, F PC Mount..... 45
 Connectors, F Splices..... 44
 Connectors, F..... 43
 Connectors, Mini-UHF..... 42
 Connectors, Modular..... 42
 Connectors, N..... 40
 Connectors, TNC..... 42
 Connectors, Twin-Ax..... 42
 Connectors, UHF..... 41
 Couplers, C5e..... 4
 Crimpers, Modular..... 56, 57

d

D-Subminiature, Connectors 34
 D-Subminiature, Contacts 35
 D-Subminiature, Gender Changers 31
 D-Subminiature, Hardware 35
 D-Subminiature, Hoods 35
 D-Subminiature, Insertion Tool..... 35

f

Faceplates, Angled Face 8
 Faceplates, Coax Stainless Steel 39
 Faceplates, Decor 9
 Faceplates, Iconable 7
 Faceplates, Keystone Standard 6
 Fiber Optic, Adapters 16
 Fiber Optic, Connectors 16
 Fiber Optic, Enclosures 17
 Fiber Optic, Ethernet Converters 21
 Fiber Optic, Panels 17
 Fiber Optic, Patch Cords 16
 Fiber Optic, Splice Trays 17
 Fiber Optic, Termination Tool Kit 59

i

Inserts, Faceplates 6

k

Keystone Jacks, C5e 4
 Keystone Jacks, Cat3, 4 5

m

Modular Adapters 13
 Modular Plugs 13

p

Patch Cords, CAT5e	12
Patch Cords, Fiber	16
Patch Panels, Blank	3
Patch Panels, C5e	2
Punch-Down Tools	55

w

Wall Brackets, 19"	25
Wire Strippers	54

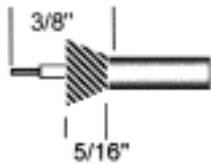
r

Raceway Duct Accesories	22
Raceway Duct	22
Racks, Cable Management	25
Racks, Equipment Shelves	26
Racks, Equipment	24

t

Telephone, Cable Assemblies	30
Telephone, Cable	30
Telephone, Couplers	29
Telephone, Duplex Adapters	29
Telephone, Modular Connectors	13
Telephone, Surface Boxes	29
Telephone, Wall plates	28
Terminators, BNC	39
Terminators, F	44
Testers, Network	14
Tone Generators	15, 58
Tools, Cable Cutters	53
Tools, Coaxial Strippers	52
Tools, Compression F	50
Tools, D-Sub Insertion	35
Tools, F Crimpers	50, 51
Tools, Fiber Termination kit	59
Tools, Large O.D. Coax	50
Tools, Lineman's Butt Set	58
Tools, Modular Crimpers	56, 57
Tools, Network Kit	15
Tools, Punch-Down	55
Tools, Ratchet RF Coax	51
Tools, Tone Generators	15, 58
Tools, Wire Strippers	54
Tools, Wire Tie	53

3 PIECE BNC, TNC, MINI-UHF CRIMP STYLE.



1. Strip cable as shown or use stripping tool TCS-5010.

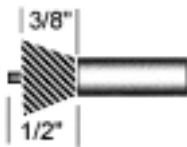


2. Crimp center contact with proper crimp tool as noted in the connector to tool cross found on page 59.



3. Slide ferrule up over back of body housing and over cable braid, and crimp ferrule with proper crimp tool found on page 59.

2 PIECE BNC CRIMP STYLE



1. Strip cable as shown or use the TCS-5000 stripper. Remove all but 1/8" of dielectric.

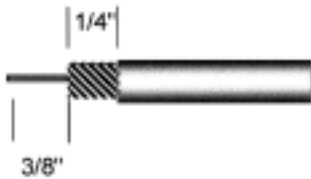


2. Flare out braid completely and then feed the center conductor into the rear of the connector body.

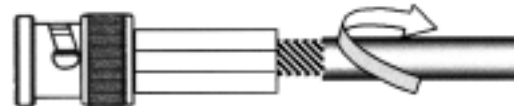


3. Slide ferrule up over the body and braid and crimp with appropriate tool.

BNC ONE PIECE TWIST-ON

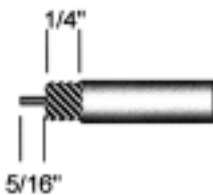


1. Strip cable as shown or use tool TCS-5020.



2. Twist center pin into connector body with a clockwise motion.
3. Twist onto cable jacket until fully threaded onto cable.

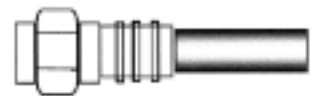
F ONE PIECE CRIMP STYLE.



1. Strip cable as shown or use TCS-5020 stripping tool.



2. Push stripped cable into the connector until the cable dielectric is flush with the connector's center opening in the head of the connector.



3. Crimp body with tool specified in the connector to tool cross reference on page 59.

PART #	PAGE	PART #	PAGE	PART #	PAGE	PART #	PAGE
CAB-2000	38	CBN-2114	37	CNC-6123	40	NAP-2005	18
CAB-2005	38	CBN-2115	37	CNC-6223	40	NAP-2008	18
CAB-2015	38	CBN-2120	37	CNC-6224	40	NAP-2016	19
CAD-1000	46	CBN-2122	37	CRQ-6000	43	NAP-2024	20
CAD-1001	46	CBN-3105	36	CTN-2112	42	NAP-3008	18
CAD-1002	47	CBN-3110	36	CTW-1000	42	NAP-3016	20
CAD-1005	46	CBN-3111	36	CUF-6122	41	NAP-3024	20
CAD-1010	46	CBN-3112	36	CUF-6220	41	NAP-4010	19
CAD-1015	46	CBN-3113	36	CUF-6230	41	NAP-4110	19
CAD-1020	46	CBN-3114	36	CUF-6240	41	NAP-4120	21
CAD-1025	46	CBN-3116	36	CUF-9110	41	NAP-4130	21
CAD-1030	46	CBN-3118	36	CUF-9112	41	NAP-5012	21
CAD-1035	47	CBN-3120	36	CWP-1010	39	NAP-5015	21
CAD-1055	47	CBN-3121	36	CWP-1030	39	NBC-1503	66
CAD-1061	47	CBN-3210	36	DHA-2101	35	NBC-1506	66
CAD-1062	47	CBN-3212	36	DHA-2102	35	NBC-1512	66
CAD-1063	47	CBN-3214	36	DHA-2201	35	NBC-1703	66
CAD-1064	47	CBN-4030	39	DHA-2202	35	NBC-1706	66
CAD-1065	47	CBN-4031	39	DHA-3000	35	NBC-1712	66
CAD-1070	48	CBN-4032	39	DHA-5010	35	NBP-2016	3
CAD-1075	48	CBN-4033	39	DHA-5020	35	NBP-2024	3
CAD-1076	48	CBN-4034	39	DHA-5030	35	NBP-2048	3
CAD-1077	49	CBN-5150	39	DHA-5040	35	NBW-1426	30
CAD-1080	48	CBN-5175	39	DHA-5080	35	NBW-1626	30
CAD-1085	48	CBQ-7010	39	DHA-5090	35	NBW-1826	30
CAD-1090	48	CBQ-7011	39	DSC-1109	34	NBW-2428	30
CAD-1095	48	CBQ-8000	39	DSC-1115	34	NBW-2628	30
CAD-1100	48	CBQ-8001	39	DSC-1125	34	NBW-2828	30
CAD-1105	49	CFC-1111	43	DSC-1137	34	NCC-1106	32
CAD-1106	49	CFC-1114	43	DSC-1150	34	NCC-1110	32
CAD-1110	49	CFC-5175	44	DSC-1209	34	NCC-1206	32
CAD-1115	49	CFC-7111	43	DSC-1215	34	NCC-1210	32
CAD-1116	49	CFC-7112	43	DSC-1225	34	NCC-2206	32
CAD-1117	49	CFC-7114	43	DSC-1237	34	NCC-2210	32
CAD-1120	49	CFC-7115	43	DSC-1250	34	NCC-2910	33
CAD-1125	49	CFC-7118	43	DSC-2109	34	NCC-4006	33
CAD-1130	49	CFC-7119	43	DSC-2115	34	NCC-4010	33
CBB-1210	38	CFC-7123	43	DSC-2125	34	NCC-5206	33
CBB-1211	38	CFC-7124	43	DSC-2209	34	NCC-5210	33
CBB-1214	38	CFC-7125	43	DSC-2215	34	NCC-5506	32
CBB-1219	38	CFC-7214	43	DSC-2225	34	NCC-5510	32
CBB-1220	38	CFC-7314	43	DSC-3109	34	NCC-5525	32
CBB-2210	38	CFC-8110	43	DSC-3126	34	NCC-5606	32
CBB-2211	38	CFC-8114	43	DSC-3209	34	NCC-5610	32
CBB-2214	38	CFQ-9010	43	DSC-3226	34	NCC-5625	32
CBB-2219	38	CFS-0181	44	DSC-4115	34	NCC-5706	33
CBB-2220	38	CFS-0182	44	DSC-4126	34	NCC-5710	33
CBB-3210	38	CFS-0183	44	DSC-4215	34	NCC-5725	33
CBB-3211	38	CFS-0185	45	DSC-4226	34	NCC-7706	32
CBB-3214	38	CFS-0186	44	DSH-5109	35	NCC-7710	32
CBB-3219	38	CFS-0187	45	DSH-5115	35	NCC-7725	32
CBB-3220	38	CFS-0188	45	DSH-5125	35	NCC-9006	33
CBB-4233	38	CFS-0189	45	DSH-5137	35	NCC-9010	33
CBN-1110	37	CFS-0203	45	DSH-5150	35	NCC-9906	33
CBN-1111	37	CFS-0206	45	DSH-5309	35	NCC-9910	33
CBN-1112	37	CFS-0210	45	DSH-5315	35	NCO-4107	30
CBN-1114	37	CFS-0220	45	DSH-5325	35	NCO-4115	30
CBN-1115	37	CMU-3112	42	DSH-5409	35	NCO-4125	30
CBN-1116	37	CMU-3212	42	DSH-5415	35	NCO-6207	30
CBN-1117	37	CMU-3312	42	DSH-5425	35	NCO-6215	30
CBN-2110	37	CNC-3022	40	DSH-5615	35	NCO-6225	30
CBN-2111	37	CNC-3112	40	NAP-1005	18	NCO-8307	30
CBN-2112	37	CNC-6122	40	NAP-1008	18	NCO-8315	30



PART NUMBER INDEX

PART #	PAGE	PART #	PAGE	PART #	PAGE	PART #	PAGE
NCO-8325	30	NGC-1033	31	NMA-8109	13	NPC-1207	12
NFK-7000	59	NGC-1044	31	NMA-8209	13	NPC-1210	12
NFO-3021	16	NGC-1055	31	NMA-8309	13	NPC-1215	12
NFO-1006	17	NGC-1066	31	NMA-8409	13	NPC-1225	12
NFO-2000	17	NGC-2216	31	NMA-8509	13	NPC-1303	12
NFO-2001	17	NGC-2225	31	NMA-8609	13	NPC-1307	12
NFO-2003	17	NGC-2257	31	NMB-1001	13	NPC-1310	12
NFO-2004	17	NGC-3020	31	NMB-1002	13	NPC-1315	12
NFO-2006	17	NGC-3040	31	NMB-1003	13	NPC-1325	12
NFO-2007	17	NIN-1000	3,8	NMB-1005	13	NPC-1503	12
NFO-2009	17	NIN-1002	3,8	NMB-1006	13	NPC-1507	12
NFO-2010	17	NIN-1003	3,8	NMB-1008	13	NPC-1510	12
NFO-2012	17	NIN-1005	3,8	NMB-1009	13	NPC-1515	12
NFO-2013	17	NIN-1006	3,8	NMB-1010	13	NPC-1525	12
NFO-2014	17	NIN-1008	3,8	NMP-4111	13	NPC-1603	12
NFO-2015	17	NIN-1107	6	NMP-4221	13	NPC-1607	12
NFO-2016	17	NIN-1108	6,9	NMP-6111	13	NPC-1610	12
NFO-2017	17	NIN-1207	6	NMP-6221	13	NPC-1615	12
NFO-2018	17	NIN-1208	6,9	NMP-8111	13	NPC-1625	12
NFO-3000	16	NIN-1307	6	NMP-8215	13	NPC-1803	12
NFO-3001	16	NIN-1308	6,9	NMP-8225	13	NPC-1807	12
NFO-3002	16	NIN-1500	3,8	NMP-9000	13	NPC-1810	12
NFO-3012	16	NIN-1501	3,8	NPC-0103	12	NPC-1815	12
NFO-3013	16	NIN-1502	3,8	NPC-0107	12	NPC-1825	12
NFO-3014	16	NIN-1503	3,8	NPC-0110	12	NPC-1903	12
NFO-3015	16	NIN-1504	3,8	NPC-0115	12	NPC-1907	12
NFO-3016	16	NIN-2001	3	NPC-0125	12	NPC-1910	12
NFO-3017	16	NIN-2002	3	NPC-0203	12	NPC-1915	12
NFO-3018	16	NIN-2003	3	NPC-0207	12	NPC-1925	12
NFO-3019	16	NIN-2004	3	NPC-0210	12	NPP-1012	2
NFO-3020	16	NIN-2005	3	NPC-0215	12	NPP-1016	2
NFO-3022	16	NIN-2006	3	NPC-0225	12	NPP-1024	2
NFO-3023	16	NIN-2007	3	NPC-0303	12	NPP-1048	2
NFO-3024	16	NIN-2008	3	NPC-0307	12	NRS-1801	22
NFO-3025	16	NIN-3002	3	NPC-0310	12	NRS-1805	22
NFP-1017	6	NIN-3003	3	NPC-0315	12	NRS-2801	22
NFP-1018	6	NIN-3005	3	NPC-0325	12	NRS-2805	22
NFP-1027	6	NIN-3006	3	NPC-0503	12	NRS-3001	22
NFP-1028	6	NIN-3008	3	NPC-0507	12	NRS-3005	22
NFP-1037	6	NKJ 5001	4	NPC-0510	12	NRS-3011	22
NFP-1038	6	NKJ-4601	5	NPC-0515	12	NRS-3015	22
NFP-1047	6	NKJ-4608	5	NPC-0525	12	NRS-3021	22
NFP-1048	6	NKJ-4801	5	NPC-0603	12	NRS-3025	22
NFP-1067	6	NKJ-5101	4	NPC-0607	12	NRS-3031	22
NFP-1068	6	NKJ-5102	4	NPC-0610	12	NRS-3035	22
NFP-2017	7	NKJ-5103	4	NPC-0615	12	NRS-3041	22
NFP-2018	7	NKJ-5104	4	NPC-0625	12	NRS-3045	22
NFP-2027	7	NKJ-5105	4	NPC-0803	12	NRS-3051	22
NFP-2028	7	NKJ-5106	4	NPC-0807	12	NRS-3055	22
NFP-2047	7	NKJ-5107	4	NPC-0810	12	NRS-3062	22
NFP-2048	7	NKJ-5108	4	NPC-0815	12	NRS-3091	22
NFP-2067	7	NKJ-5201	4	NPC-0825	12	NRS-3095	22
NFP-2068	7	NKJ-5202	4	NPC-0903	12	NRS-4001	22
NFP-3000	8	NKJ-5203	4	NPC-0907	12	NRS-4005	22
NFP-3018	8	NKJ-5204	4	NPC-0910	12	NSB-5100	10
NFP-3028	8	NKJ-5205	4	NPC-0915	12	NSB-5110	10
NFP-3048	8	NKJ-5206	4	NPC-0925	12	NSB-5120	10
NFP-4011	9	NKJ-5207	4	NPC-1103	12	NSB-5130	10
NFP-4012	9	NKJ-5208	4	NPC-1107	12	NSB-5150	11
NFP-4013	9	NMA-6109	13	NPC-1110	12	NSB-5151	11
NFP-4014	9	NMA-6209	13	NPC-1115	12	NSB-5160	11
NGC-1011	31	NMA-6509	13	NPC-1125	12	NSB-5161	11
NGC-1022	31	NMA-6609	13	NPC-1203	12	NSB-5170	11

PART #	PAGE	PART #	PAGE	PART #	PAGE	PART #	PAGE
NSB-5171	11	NWM-0701	24	TRF-3001	51	VFC-1103	66
NSB-6140	11	NWM-0702	24	TRF-3010	51	VFC-1106	66
NSB-6240	11	NWM-1000	26	TRF-3015	51	VFC-1112	66
NTB-1401	29	NWM-1011	26	TRF-3020	51	VFC-1125	66
NTB-1402	29	NWM-1012	26	TRF-3030	51	VFC-1150	66
NTB-1601	29	NWM-1021	26	TRF-3035	51	VFC-1203	66
NTB-1602	29	NWM-1022	26	TRF-3040	51	VFC-1206	66
NTB-1801	29	NWM-1032	26	TRF-3045	51	VFC-1212	66
NTB-1802	29	NWM-2001	25	TRF-3050	51	VFC-1225	66
NTB-2401	29	NWM-2002	25	TRF-3051	51	VFC-1250	66
NTB-2402	29	NWM-3002	25	TRF-3052	51	VFC-2103	66
NTB-3401	29	NWM-3004	25	TRF-3054	51	VFC-2106	66
NTB-3402	29	NWM-3006	25	TRF-3056	51	VFC-2112	66
NTB-3601	29	NWM-4000	24	TSB-5021	52	VFC-2125	66
NTB-3602	29	NWM-4001	24	TSB-5022	52	VFC-2150	66
NTC-1421	29	NWT-4081	23	TSB-5023	52	VFC-2203	66
NTC-1422	29	NWT-4088	23	TTE-2000	58	VFC-2206	66
NTC-1621	29	NWT-4111	23	TTE-2100	58	VFC-2212	66
NTC-1622	29	NWT-4118	23	TTE-2101	58	VFC-2225	66
NTC-1821	29	NWT-4141	23	TTE-2102	58	VFC-2250	66
NTC-1822	29	NWT-4148	23	TTE-9000	14	VGB-1001	65
NTC-2421	29	NWT-4200	23	TTE-9010	14	VGB-1002	65
NTC-2422	29	NWT-4210	23	TTE-9020	14	VHT-9000	70
NTC-2621	29	NWT-8041	23	TTE-9030	14	VHT-9010	70
NTC-2622	29	NWT-8048	23	TTE-9040	14	VHT-9020	70
NTC-2821	29	NWT-8081	23	VAB-1000	63	VHT-9030	70
NTC-2822	29	NWT-8088	23	VAB-2000	63	VHT-9040	70
NTP-1441	28	TCS-5000	52	VAM-1412	64	VHT-9050	70
NTP-1442	28	TCS-5010	52	VAM-2110	64	VHT-9060	70
NTP-1601	28	TCS-5020	52	VAM-2125	64	VHT-9070	70
NTP-1602	28	TCS-5030	52	VAM-2130	64	VHT-9080	71
NTP-1661	28	TCS-5040	52	VAM-4000	64	VHT-9090	71
NTP-1662	28	TCS-5120	52	VCA-3103	68	VHT-9095	71
NTP-1801	28	TEL-6000	57	VCA-3106	68	VHT-9100	71
NTP-1802	28	TEL-6001	57	VCA-3112	68	VHT-9200	71
NTP-1881	28	TEL-6020	57	VCA-3125	68	VHT-9300	71
NTP-1882	28	TEL-6030	56	VCA-3203	67	VMT-1000	65
NTP-1901	28,69	TEL-6040	56	VCA-3206	67	VMT-2000	65
NTP-1902	28,69	TEL-6050	56	VCA-3212	67	VMT-3000	65
NTP-2401	28	TEL-6070	55	VCA-4106	68	VSP-1210	60
NTP-2402	28	TEL-6080	55	VCA-4112	68	VSP-1220	60
NTP-4401	28	TEL-6085	55	VCA-4203	67	VSP-1320	60
NTP-4402	28	TEL-6090	55	VCA-4206	67	VSP-1420	60
NVT-0191	23	TEL-6097	55	VCA-4212	67	VSP-1620	60
NVT-0192	23	TEL-6098	55	VCA-5206	67	VSP-1820	60
NVT-0193	23	TEL-6099	55	VCA-5212	67	VSP-2220	61
NVT-0321	23	TEL-6100	52	VCA-5225	67	VSP-2320	61
NVT-1101	23	TEL-6110	55	VCA-5250	67	VSP-2420	61
NVT-1130	23	TEL-6120	55	VCA-7010	68	VSP-3000	62
NVT-1131	23	TFC-4000	50	VCA-7020	68	VTP-1106	61
NVT-1132	23	TFC-4010	50	VCA-7030	68	VTP-1109	61
NVT-1133	23	TFC-4020	50	VCC-1101	65	VTP-1112	61
NVT-1201	23	TFC-4030	50	VCC-1102	65	VTP-1116	61
NVT-1801	23	TFC-4035	50	VCC-2101	65	VTP-1120	61
NVT-3401	23	TFC-4040	50	VCC-2102	65	VTP-1124	61
NVT-3402	23	TMI-1015	53	VCC-4101	65	VTP-1127	61
NVT-3403	23	TMI-1020	54	VCC-4102	65	VTP-1130	61
NVT-3461	23	TMI-1021	54	VCC-4103	65	VTP-3010	62
NVT-3801	23	TMI-1025	54	VCC-4104	65	VTP-3020	62
NVT-3802	23	TMI-1030	53	VCO-1003	62	VWP-1101	69
NVT-3803	23	TMI-1031	53	VCO-1004	62	VWP-1102	69
NWM-0401	24	TMI-1040	53	VCO-1100	63	VWP-2102	69
NWM-0402	24	TRF-3000	51	VCO-1110	63		