

QRT

TOOL KITS FOR QUANTUM REACH® CABLE

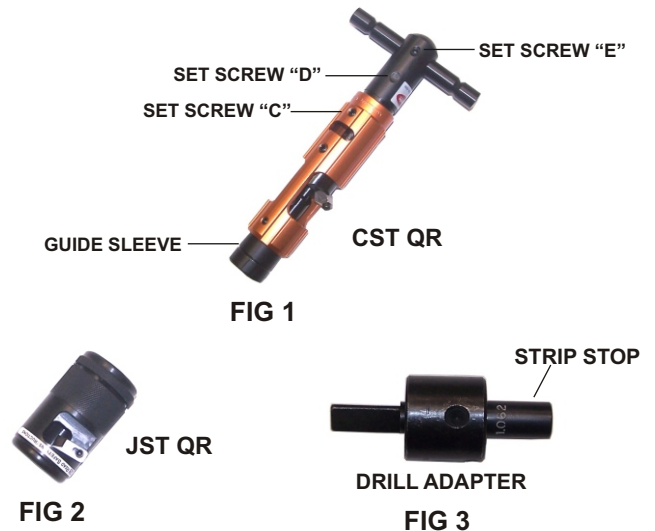
Warning! This tool should not be used on live electrical circuits. It is not protected against electrical shock! Always use OSHA/ANSI or other industry approved eye protection when using tools. This tool is not to be used for purposes other than intended. Read carefully and understand instructions before using this tool.

INSTRUCTIONS

This instruction sheet contains information on how to use Ripley tools for preparing Quantum Reach (QR) cable as manufactured by Comm/Scope, Inc. The tools discussed are CST-QR(fig 1), combination coring and stripping tools and JST-QR(fig 2), jacket stripping tools.

The CST-QR prepares the cable by coring the foam dielectric and simultaneously stripping both the jacket and the aluminum sheath. The JST-QR then removes the correct amount of jacket from the aluminum cable and connector interfacing. The following instructions must be followed.

CAUTION: DO NOT Remove Set Screw D in a ratchet equipped tool. THIS IS A FACTORY ADJUSTMENT FOR RATCHET TENSION ONLY. Over tightening will cause binding when reversing ratchet.



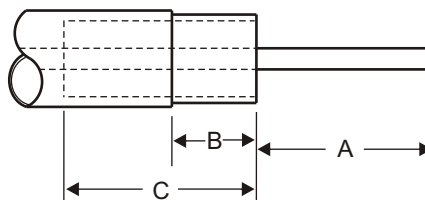
The CST-QR and JST-QR tool bodies include a newly designed attachment feature for convenient and efficient tool storage. The tool will be packaged with the JST attached to the front end of the CST on the guide sleeve (fig 4). The JST is detached by pull force with hand pressure prior to tool usage(fig 5). Prepare the cable first with the CST, followed by the JST. See detailed instructions below. When work is completed the JST is reattached for storage. (This attachment feature is not included in models QRT 500 and QRT 1125)



“QR” CABLE PREPARATION LENGTHS

Your specific CST-QR and JST-QR tools are set-up to the following Comm/Scope cable preparation recommendations:

- A - Center conductor length
- B - Polyethylene jacket strip length
- C - Coring depth



SIZE	A	B	C
.320	15/16"	1/2"	1-1/4"
.500	1-1/16"	1/2"	1-1/4"
.540	1-1/16"	1/2"	1-1/4"
.715	1-1/16"	1/2"	1-1/4"
.860	1-1/16"	5/8"	1-1/4"
1.125	1-1/4"	5/8"	1-1/4"

CABLE PREPARATION

MANUAL OPERATION: RATCHET HANDLE

1. The CST tool is placed over the end of the cable until the coring blade makes contact with the cable end. Turn the handle of the tool in a clockwise direction using forward pressure. This tool may be equipped with a ratchet handle and there is no need to remove your hand from the handle. A simple clockwise and then counterclockwise motion applied through the ratchet handle is all that is required to advance the “CST” tool. The dielectric will be cored to a depth of 1-1/4”. As you continue operating the tool you will start to strip the polyethylene jacket and aluminum sheath. Continue the ratcheting motion until the jacket and aluminum shielding chip falls off. This is when the center conductor of the cable has reached the stop supplied with the tool. Remove the tool and clean off any remaining dielectric from the center conductor using a CC-100 or CC-200 Conductor Cleaning tool, prior to the jacket stripping operation. This will prevent unnecessary damage to the aluminum sheath.

2. Feed thru connector preparation requires that the center conductor strip stop be removed in order to allow an unrestricted length of center conductor to be stripped. Remove the strip stop from the ratchet hub and follow the directions as per step 1. Remove the CST tool after the cable has been prepared. The maximum length of the center conductor is 2.125(2-1/8) inches. Measure and cut the center conductor to the required length as specified by the connector manufacturer.

POWER OPERATION: DRILL ADAPTER

1. Remove the ratchet handle assembly by removing the set screw “C” at the base of the tool body. Remove the strip stop and set screw from the ratchet hub and insert the strip stop and set screw into the drill adapter and secure (see fig 3). Insert the 3/8” drill adapter into the coring tool handle, replace set screw “C” and tighten. Place the shaft of the drill adapter into a 3/8” or larger drill chuck and tighten securely. The drill units should always be operated at a low speed. The CST tool is placed over the end of the cable (make sure that the polyethylene jacket remains on the cable). Start the drill and with a forward pressure continue the drilling operation until the jacket and aluminum shield falls off and no forward motion is evident. This is when the center conductor of the cable has reached the stop. Remove the tool and clean off any remaining dielectric from the center conductor prior to the jacket stripping operation. This will prevent unnecessary damage to the aluminum shield.

1a. Feed thru connector preparation requires that the center conductor strip stop be removed in order to allow an unrestricted length of center conductor to be stripped. Remove the strip stop from the “drill adapter”. Follow the directions as outlined above in step 1. Remove the CST tool after the cable has been prepared. The maximum center conductor length is 2.625(2-5/8) inches. Measure and cut the center conductor to the required length as specified by the connector manufacturer.

JST-QR JACKET STRIPPING PROCEDURE

1. The JST tool is used to remove only the polyethylene jacket from the QR cable. The JST tool for QR cable is only used after the cable has been properly cored and has had the sheath removed.

2. Slide the proper JST over the stripped and cored cable end. Rotate the tool using slight forward pressure and continue rotation until the forward progress of the tool is stopped. The correct jacket strip length is pre set within the JST tool. Remove the tool.

NOTE: When positioning the JST over the cable end, do not force the blade over the jacket material. Allow the stripping blade to contact the end of the jacket material and start the spiral stripping action with light forward pressure.

Cablematic QRT KIT Replacement Parts

<u>MODEL</u>	<u>TOOL</u>	<u>CST* BLADE KIT</u>	<u>CST ALUMINUM SHEATH BLADE</u>	<u>JST JACKET BLADE</u>	<u>CST GUIDE SLEEVE</u>	<u>CST** STRIP STOP</u>
QRT 320 Kit	CST 320 QR JST 320 QR	CB 164K ———	CB60 ———	——— CB 6667H	35144 ———	32978 (15/16)
QRT 500 Kit	CST 500 QR JST 500 QR	CB 130K ———	CB60 ———	——— CB 6667H	33404 ———	32979 (1-1/16)
QRT 540 Kit	CST 540 QR JST 540 QR	CB 143K ———	CB60 ———	——— CB 6667H	33787 ———	32979 (1-1/16)
QRT 715 Kit	CST 715 QR JST 715 QR	CB 159K ———	CB60 ———	——— CB 6667H	34663 ———	32979 (1-1/16)
QRT 860 Kit	CST 860 QR JST 860 QR	CB 127K ———	CB60 ———	——— CB 6667H	33371 ———	32979 (1-1/16)
QRT 1125 Kit	CST 1125 QR JST 1125 QR	CB 145K ———	CB60 ———	——— CB 6667H	——— ———	32983 (1-1/4)

* CST blade kit contains a coring bit and a CST aluminum sheath blade.

** Strip stops listed are those recommended by Comm/Scope. Contact Cablematic for other available stops.

WARRANTY: RIPLEY warrants its products against defective materials and workmanship for a period of one year from date of shipment from the RIPLEY factory provided the product is utilized in accordance with instructions and specified ratings.