

Making your own cable connectors for the HyGain Rotators (revised, April 2017)

Rotator Cable End - Below are the Mouser part numbers needed to build a mating rotator cable quick connect end to the newer Hygain type rotators connectors – Ham4 & Tail Twister (T2X). These are the same connectors used by CATS and Norm’s Rotator.

| | | | |
|--------------|--|-----|-----------------------|
| 571-2067081 | Female body | (1) | |
| 571-206966-7 | Body cover/clamp | (1) | |
| 571-661014 | Female connector (pin), small, 16-18 AWG | (6) | Connector pins 3 – 8. |
| 571-666012 | Female connector (pin), large, 14-18 AWG | (2) | Connector pins 1 & 2. |

Control Box Cable End or cable extender– Prepare a pigtail with bare wires on one end and a female connector on the other (above). The bare wires will connect to lugs 1 – 8 on the rotator. Below are the Mouser part numbers to build male cable end to connect to the female Rotator Control Box cable.

| | | | |
|--------------|---------------------------------------|-----|-----------------------|
| 571-2067052 | Male body | (1) | |
| 571-206966-7 | Body cover & clamp | (1) | |
| 571-66099-4 | Male connector (pin), small, 16-18AWG | (6) | Connector pins 3 – 8. |
| 571-666022 | Male connector (pin), large, 14-18AWG | (2) | Connector pins 1 & 2. |

You can build your own **quick connect rotator connector device (at the rotator)** by using Mouser PN connector 571-2067051, male chassis mount connector. You need to make your own adapter plate – 1 1/4” X 2 1/2”, with connector mounting hole & rotator notch. Norm’s sold me several of his adapter plates some years ago. Before you build your own male Amp connector system, make sure there is clearance to connect the female connector to it. This type connector will generally not work with a rotator that has a mast bracket adapter mounted on it. The mast is in the way, and hole for the connector is not big enough and not cut in the right spot.

Misc notes:

These connectors are listed as “AMP CPC Connectors, Series 1”, nine holes. In my 3 year old Mouser catalog, they are on page 957.

The 9th hole in these connectors is not used. Leave it open, or fill it with silicone, if you like.

Male and female pins are gold plated so you do not have to worry about corrosion forming.

16-18AWG pins are easier to push into the connector body. 14-18AWG connectors are bigger and more difficult to seat into the connector body. In general, I cut off the very end part of the pin used to crimp onto the wire. If left in place, it makes extremely difficult to seat the pins properly.

Mouser does have a pin extractor tool for these connectors (pins), PN 571-305183.

PN 571-211870-1 is a protective cap/cover for the male end connectors. I could not find one for the female connectors.

Mouser has no minimum purchase amount. Their phone: 800 346-6873. Great people to work with!

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