Polycom 500 phone cables

The Polycom 500 phones require a special network cable that provides power and the network connection.

The plug on the network end is a standard RJ45 8 pin plug.

The plug on the phone end is keyed to keep you from plugging the powered end into a network device and damaging it.

The wiring is as follows:

Phone end:
White-Brown pair is + 12 VDC
White-Blue pair is Ground

The White-Brown and White-Blue pairs on the network end are cut and do not pass power to the network plug.

An alternative to making a special cable is to use a surface mount biscuit jack with two jacks and do all of the wiring in that. You could use different colored jacks for the phone and network to help prevent plugging the powered end into a network switch or you can just label the jacks on the cover.

This allows you to use standard network patch cables and you can select the length as needed for each phone.