

Application Note: 211 Type Hook Switch

Introduction:

This note describes connections to a 211 type hook switch with a 425 equivalent network and a Cortelco ringer and enclosure. This can be used with either a standard G3 (standard handset) or G5 (Push-to-Talk handset).



Figure 1 - Hook Switch Identification

Wiring:

Feed a piece of Cat 5 cables through the hole in the base of the housing and also feed the spade tip end of the handset cord.

The Cat 5 may be stripped and wrapped under the terminals or radio shack part 64-3070 spade lugs may be applied. If using spade lugs, be sure to use the appropriate crimping tool.



Figure 2 – Crimper, usually described as for RS232 pins

Make the following connections in the hook switch:

Cat 5 to box	Handset Cord	Designation on 211
White/Blue		GN
Blue/White		W
White/Orange		Y
Orange/White		BK
White/Green	Black	B
Green/White	White (there are two, use either)	BL
White/Brown	Red, (the other White)	R
Brown/White	Spared out	

Table 1 - 211 Hook switch Connections

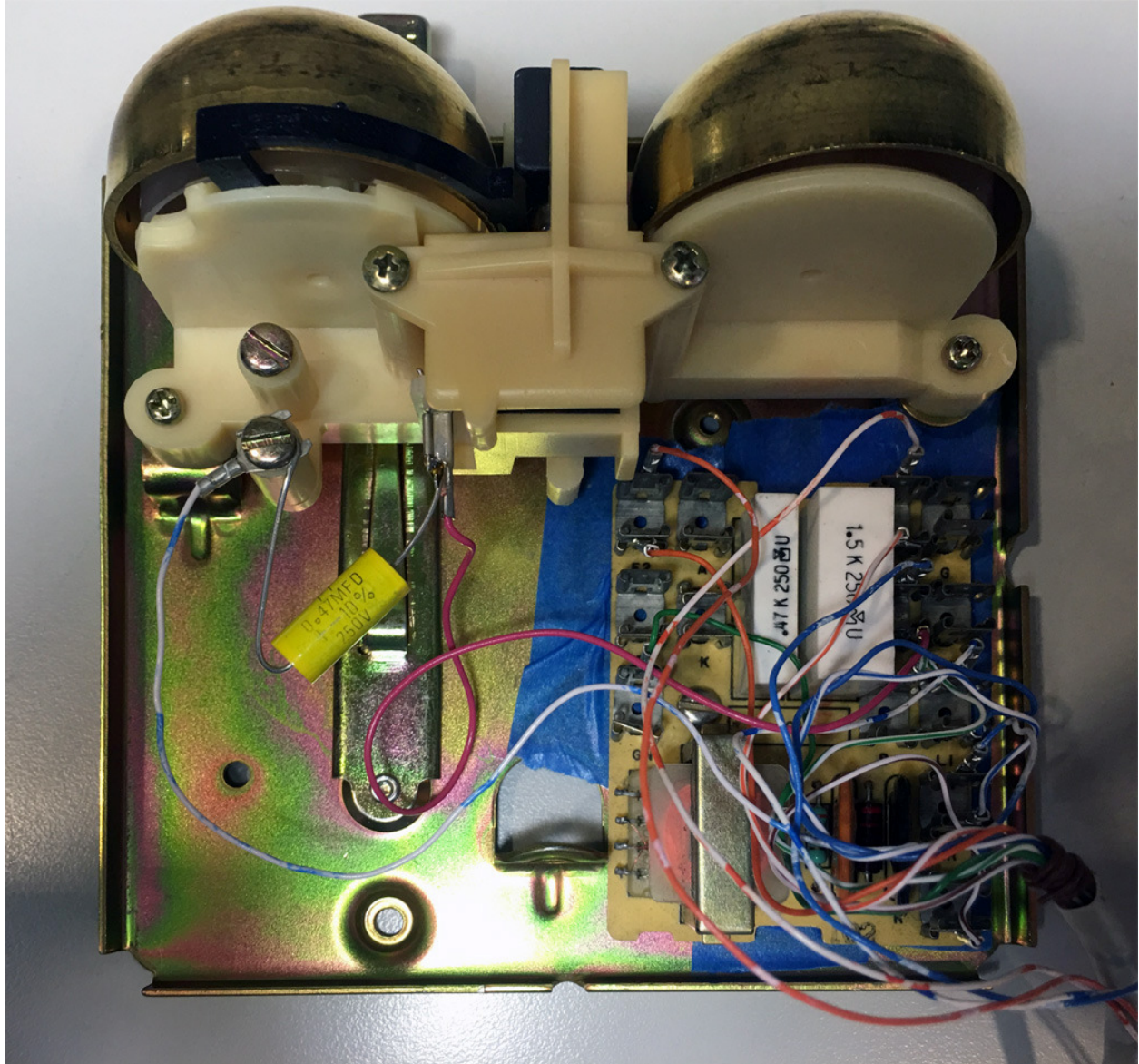


Figure 3 - Cortelco Ringer Box

This example shows a Cortelco Ringer Box but you could use any other “subset” such as a Western Electric 685.

1. The Cortelco box has a threaded hole below the right hand ringer gong, usually with a cable clamp. Use the screw to mount the network (I used an ITT 181427 but an 425 equivalent will work). Be sure put some insulating tape below the network to prevent shorts.
2. Bring the Cat 5 from the 211 hook switch in terminate with spade lugs (if your network has screw terminals you can just strip and twist under the screws).
3. Make the following connections

Cat 5 to 211	Network	Ringer	Description
White/Blue	L1	Post on left	Tip side of line
Blue/White	C	Red Wire	Ring Side of line
White/Orange	E1		Aux closure 1
Orange/White	E2		Aux closure 2
White/Green	B		Transmitter
Green/White	GN		Receiver
White/Brown	R		Handset Common
Brown/White			

Table 2 - Subset Connections

Note that I made a set of test connections for the sample:

White Blue pair – tip and ring

White Orange pair – aux closure

Install the 211 hanger



Base of 211 hookswitch - note 4 10-24 screws hold the housing to the bracket. We ship with it facing the hook switch hanger to save space.