

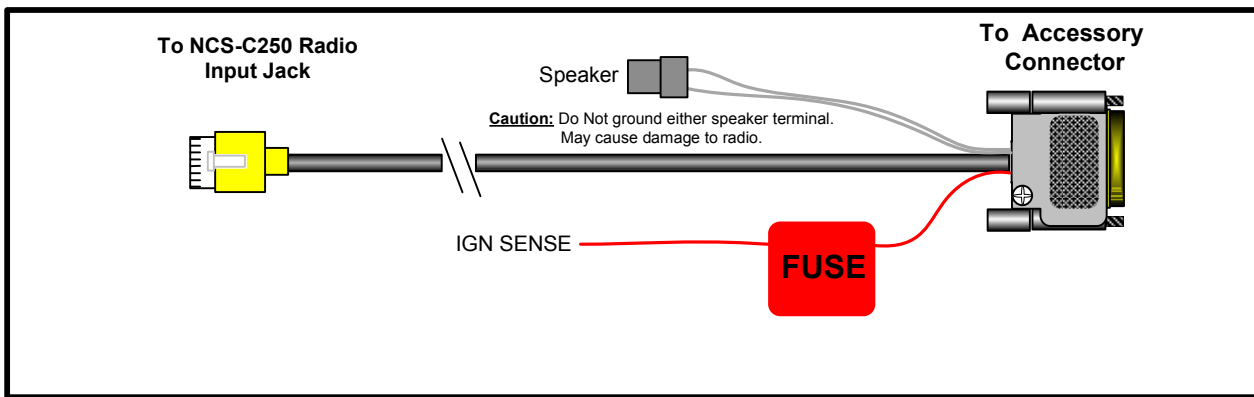
Radio Interface Cable

For NCS-C250 Mobile Multi-Switcher

NCS Model Number
NCS-250-MCA-XX

Compatible Radios:

XTL5000	APX1500	APX6500
XTL2500	APX2500	APX7500
XTL1500	APX4500	PM1500



RJ-45

Pin #	Wire Color	Function
1	White	Mic Hi
2	Green	Mic Lo
3	Brown	PTT
4	Black	Ground
5	Yellow	Rx Audio
6	Shield	Ground
7	Red	Hook Sw*
8	Orange	COR**

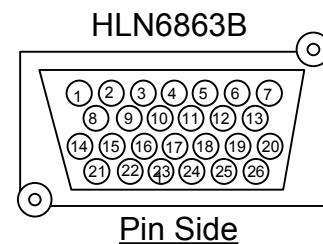
*** Works only on units with Hook Switch Option installed**

****Works only on units with COR Option Installed**

HLN6863B

1	Black/Green
2	NC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	NC
13	Orange
14	Jumper
15	Jumper

16	Brown
17	NC
18	NC
19	NC
20	NC
21	Yellow
22	Red
23	White
24	NC
25	Red (IGN Sense)
26	NC



Cable Wiring

Radio Interface Cable

NCS-250-MCA-XX

Instructions When Interfacing XTL Trunking Radios to the NCS-C150/NCS-C151

XTL trunking radios have a programmable per-channel feature (“**Talk Permit Tone**”) such that when the PTT is pressed and held, the radio looks for a clear channel. It then automatically switches to receive to listen for a “go-ahead” beep indicating a clear channel has been acquired. When the NCS-C150/NCS-C151 is used for cross banding XTL trunked radios with the “**Talk Permit Tone**” feature turned on, system oscillation or “ping-ponging” is likely to occur. Therefore, in the radio programming software the “**Talk Permit Tone**” should be disabled on each of the radio channels that are to be used for cross banding.

To disable the “**Talk Permit Tone**” (go-ahead tone) perform the following actions in the XTL radio programming software:

1. In the radio programming software click on “**Trunking**”
2. Under “**Trunking**”, double-click on the channel that will be used for cross banding.
3. Click on “**Advanced**”
4. On the right side of the window, unclick the “**Talk Permit Tone**”.
5. Repeat the above steps for any other channels that will be used for cross banding.

Note: *It is not necessary to disable the “Talk Permit Tone” feature when using the NCS-C250.*

Radio Specific Instructions

APX and XTL Mid Power Dash Mount

The NCS-250-MCA radio interface cable attaches to the 26 pin accessory connector (J2) on the rear of the radio.

APX And XTL Remote Mount

In the Remote Mount configuration it is generally more convenient to connect the NCS-250-MCA radio interface cable to the 26 pin accessory connector (J100) on the rear of the control head of the radio. Alternatively, it can be connected to the accessory connector (J2) on the rear of the radio.

The NCS-250-MCA radio interface cable can be connected directly to the O2, O5, O7 and O9 control heads used by APX and XTL Mid and High Power radios. If the O3 control head is used the Motorola Front Accessory Cable (PMLN4959) must be attached to the front of the radio. The NCS-250-MCA is then attached to the other end of the Motorola Front Accessory Cable.

The High Power APX and XTL radios can be installed only in the remote mount configuration and the NCS-250-MCA radio interface cable can only be connected to the 26 pin accessory connector (J100) on the control head.

Note: The *Ignition Sense* wire and *Speaker Connection* pigtailed on the NCS-250-MCA radio interface cable are only functional when the cable is attached to the accessory connector (J2) on the rear of the radio. When the accessory connector (J100) on the control head is used the *Ignition Sense* wire and *Speaker Connection* on the NCS-250-MCA cable **are not functional**.

PM1500 High Power Remote Mount

The NCS-250-MCA radio interface cable connects to the 26 pin accessory connector (J100) on the rear of the control head.