IDENTIFYING YOUR HEADSET-TO-RADIO CABLES

The color of the shrink tubing at the Mic Connector identifies the cable application for all cables with the 8-Pin Foster Mic Connector (most desktop HF Radios) as well as the 8-Pin RJ-45 Mic Plug Cables for the small mobile/portable HF Radios as well as Yaesu VHF/UHF only radios with the 6-Pin RJ-25 Mic Connector.



- ICOM/ELAD

- Elecraft/Hilberling/Kenwood

- FlexRadio/TenTec/Yaesu

By 2014 we learned that more than 60% of our users would be using their RS60CF headset across 2, 3 or more radios in their shack.

Since October 2014 our Headset-To-Radio cables support using an Electret-Condenser Mic on ANY Radio. There is an internal 2-Pole DIP Switch that enables Mic BIAS for Electret-Condenser Mics. This allows using the same Mic across ANY radio in your shack without ever needing to Swap Mics. Simply connect the Headset-To-Radio cables to each radio and move the headset between cables.

A thin RED Band on either the BLUE or YELLOW Cables indicates that the internal 2-Pole DIP Switch has been set to enable Mic BIAS for Electret-Condenser Mics on Kenwood (BLUE w/RED Band), or Yaesu (YELLOW w/RED Band).

Radios from Elecraft and FlexRadio support enabling Mic BIAS for Electret-Condenser Mics under software control, so the DEFAULT 2-Pole DIP Switch setting is all that is required.

Note: ALL VHF/UHF Mobile/Portable radios and ALL Handheld radios use Electret-Condenser Mics.

All radiosport Headset-To-Radio Cables provide Balanced Mic leads to the radio. The termination of those two Mic leads at the Mic Preamp determines whether it is an unbalanced or balanced (differential Preamp input) Mic interface. This prevents the possibility of an Audio Ground-Loop if one side (the Mic-) lead were connected to any Ground including the Headphone Common Lead or the PTT Ground Return Lead.

For radios currently in production for the Amateur Radio Market there are 5 unique Mic interface architectures. Each Headset-To-Radio is constructed to match the Mic interface architecture of the radio it is connected to, so that there are never issues with RFI or Audio Ground-Loops. No other headset manufacturer for Amateur Radio gear provides this assurance.

See the following pages for:

1) Examples of the different identifying markings for our Headset-To-Radio Cables with either 8-Pin Foster Style Mic connectors, or 8-Pin RJ-45 Mic Connectors and 6-Pin RJ-25 Mic Connectors.

2) Enabling Mic BIAS for Electret Mics (2-Pole DIP Switch Settings)

3) *radiosport* Headset-To-Radio Cable Part Numbers by Radio Manufacture and Model

radiosport RS60CF Headsets produced from 2010 to 2020 were available with either Dynamic or Electret-Condenser Mics using a MIL-M101 style interchangeable Mic mount. **radiosport RS60CF-10A 10th Anniversary Headsets** are produced with a fixed Electret-Condenser Mic as we have supported this on all HF radios since 2014.

Identifying radiosport Headset-To-Radio cables with 8-Pin Foster style Mic Connectors



See our instructions for Enabling Mic BIAS for Electret-Condenser Mics on Page 4 of this document.

Identifying radiosport Headset-To-Radio Cables with RJ-xx Mic Connectors

8-Pin RJ-45 Mic Connectors



All use Electret-Condenser Mics

See our instructions for Enabling Mic BIAS for Electret-Condenser Mics on Page 4 of this document.

Enabling Mic BIAS for Electret-Condenser Mics

If you have a Headset-To-Radio cable part number ending in -EM these settings have already been made and there will be a Red Stripe on the colored tubing at the Mic connector (Foster 8-Pin Mic connectors), or a Red Stripe near the colored Boot on an RJ-45 (or RJ-25) Mic Connector.

To enable Mic BIAS for Electret Condenser Mics please see the following instructions. Please Note that ALL VHF/UHF portable/mobile radios use Electret-Condenser Mics and these settings should be in place for those model radios. Note Yaesu **HF**/VHF/UHF radios still use Dynamic Mics. These settings allow use of an Electret-Condenser Mic. **NOTE! ICOM all use Electret Mics and Default Switch settings!**

1) Turn over the Headset-To-Radio cable on to a thick soft cloth so the three screws that hold the cable "Y" housing together are visible.

2) Remove the two/three screws holding the "Y" housing together. Use caution not to damage the MONO/STEREO Slide Switch by placing too much force downward when removing these three screws.

3) Lift the cover off the half opposite the Stereo/Mono Slide Switch to expose a 2-Pole DIP switch mounted on the internal PCB, being careful to keep the three (or four) cables in place in the opposite half.

Below are the possible settings of the DIP Switch: **Note: White is the DIP switch slider position.**



4) The top drawing is the DEFAULT Switch settings. The lower drawing is the settings to enable Mic BIAS for Electret Condenser Mics. Please use these settings Switch 1 ON, Switch 2 OFF.

5) Carefully replace the cover being careful not to pinch any wires and reinstall the three screws. To insure long life of the plastic threads, rotate the screw head counter clockwise first until the screw drops into the threads and then turn the screw clockwise to snug them in place.

radiosport Headset-To-Radio Cable Part Numbers (Popular Radios)

HF Radios

ELAD FDM Duo	Mic Electret	HTR Cable CS6-IRJ-PTT
Elecraft Model K3, K4 Rear Panel Interface	Dynamic or Electret Dynamic or Electret	CS6-ELK CS6-ELE-RP
FlexRadio Model 6300, 6500, 6700	Dynamic or Electret	CS6-FTY
Model 6400(M)/6600(M)	Dynamic or Electret	CS6-FLX-PTT
Maestro A & B Maestro C	Dynamic or Electret Electret	CS6-MAE CS6-TRRS
<mark>ICOM</mark> Model IC-706/7000/7100	Electret	CS6-IRJ-PTT
Model IC-7200/7300 IC-7600/7610 IC-7700/7800/7850/7851	Electret	CS6-ICM
Kenwood TS-480	Dynamic Electret	CS6-KRJ-PTT CS6-KRJ-PTT-EM
Model TS-870/TS-890/TS-990S TS-580SG/TS-2000	Dynamic Electret	CS6-ELK CS6-KEN-EM
Yaesu Model FT-817/818/891/991/991A FTDX10, FTDX710	Dynamic Electret	CS6-YRJ-PTT CS6-YRJ-PTT-EM
Model FT-1000/2000/3000/5000 FTDX-101D/FTDX-101MP	Dynamic Electret	CS6-FTY CS6-YAE-EM
FTDX-9000 (rear panel)	Dynamic Electrot	CS6-FTY
(front panel)	Dynamic only	CSO-TAE-EM CSG-XLR

Recommended Mics: Dynamic M208 or Electret M350 (RS60CF) or M20 (RS60CF-10A)

radiosport Headset-To-Radio Cable Part Numbers (Popular Radios)

VHF/UHF Portable/Mobile Radios with RJ-45 Mic Connectors

Note: All VHF/UHF Portable/Mobile Radios use Electret-Condenser Mics The recommended Mic is our M350 (RS60CF) or M20 (RS60CF-10A)

> Mic Electret

HTR Cable CS6-IRJ-PTT

Kenwood

ICOM

Electret

CS6-KRJ-PTT-EM

VHF/UHF Portable/Mobile Radios with RJ-25 Mic Connectors

Yaesu

Electret

CS6-YRJ25-PTT-EM