What this cable does

This cable connects between a Flex 6000-series radio and an Ameritron RCS-12 and ALS-1306,606 (and possibly other products). When configured on the Flex radio, it supplies BCD band data to the DB-9 connector.

Connecting and configuring the cables
Plug this USB cable into the Flex 6000 Series radio, and connect the DB9 to the "Radio Input" connector on the RCS-12, or "Radio Interface" of the ALS-1306 and 606.

RCS-12 connect an RCA cable between the "Radio Key In" jack on the RCS-12 to any of the TX1, TX2, or TX3 RCA connectors on the Flex.

ALS-1306 and 606 connect an RCA cable between 1306 or 606 relay jack to any of the TX1, TX2, or TX3 RCA connectors on the Flex

In the Flex Radio Smart SDR software, open the Settings/USB Cables menu. The cable should appear labeled "New Bit Cable". Edit the settings for that cable, and set them to:

Cable Type: BCD
Source: Active Slice
Type: HF_BCD
Polarity: Active Low
Now, the BCD data for your active slice receiver should be sent to the RCS-12, ALS-1306, 606, allowing you to automatically switch antennas.
Since the Flex radios can have multiple receivers, there are many options for what the source of the BCD data is. "Active Slice" is a good choice. Read the Flex Radio USB Cable Interface Guide for complete information about these options.
Once the cable is connected and configured, you can follow the instruction manual for the automatic switch or amplifier.

Band Data

The band data is the same as the Yaesu/Elecraft band data as follows:

Band	Bit 3	Bit 2	Bit 1	Bit 0
160	0	0	0	1
80	0	0	1	0
60	0	0	0	0
40	0	0	1	1
30	0	1	0	0
20	0	1	0	1
17	0	1	1	0
15	0	1	1	1
12	1	0	0	0
10	1	0	0	1
6	1	0	1	0
2	1	0	1	1
70cm	1	1	0	0

Cable connection details

Signal	DB-9F Pin Number	Cable wire Color
Ground	6	Black
BCD A	2	Orange
BCD B	1	Yellow
BCD C	9	Green
BCD D	8	Brown