IMPORTANT NOTICE ! Caution:

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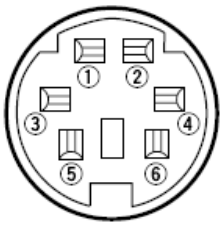
Cables and drawings shown in this document may be combined to connect your transceiver to: RASCAL, TNC, or related device; For quote, call BUXCOMM Toll Free, 1 800 726 2919 Or 1 866 300 1969, Monday – Friday, 9:00 AM – 4:00 PM. Saturday 9 AM to 2 PM

Shown below, are miscellaneous accessory drawings and late additions.

For the six (6) pin Mini DIN shown next , see Note 10 on page 4 of this document.



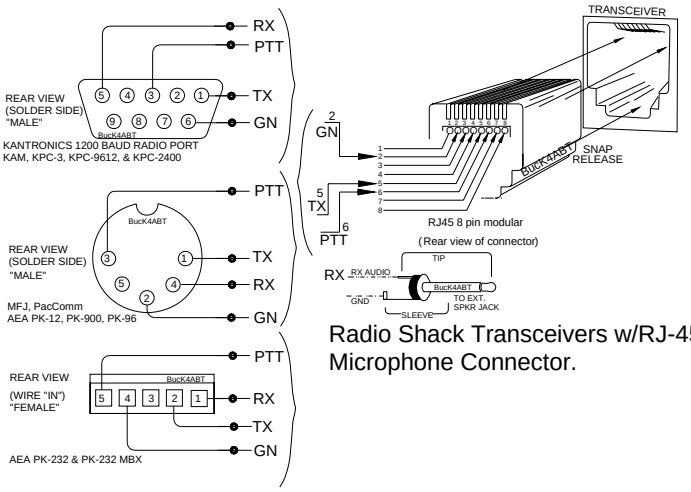
Rear panel view

PIN #/NAME	DESCRIPTION
① DATA IN	Communication data input.
② GND	Ground for DATA IN, DATA OUT and AF OUT.
③ PTTP	Transmits when grounded.
④ DATA OUT	Outputs 9600 bps receive data.
⑤ AF OUT	Outputs 1200 bps receive data.
⑥ SQ	Squelch output. Goes to ground when squelch opens.

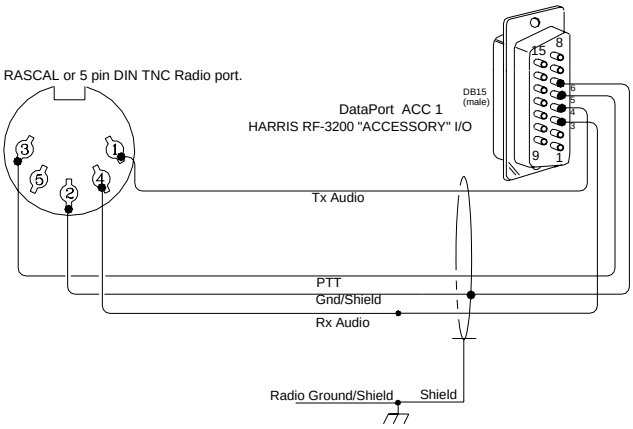
ISO Standard, SIX (6) pin Mini DIN accessory (data I/O) on most late model transceivers.

ACC(1)	PIN NO.	PIN NAME	DESCRIPTION	SPECIFICATIONS
 Rear panel view	1	RTTY	Controls RTTY keying.	"HIGH" level : More than 2.4 V "LOW" level : Less than 0.6 V Output current : Less than 2 mA
	2	GND	Connects to ground.	Connected in parallel with ACC(2) pin 2.
	3	SEND	Input/output pin. Goes to ground when transmitting. When grounded, transmits.	Ground level : –0.5 V to 0.8 V Output current : Less than 20 mA Input current (Tx) : Less than 200 mA Connected in parallel with ACC(2) pin 3.
	4	MOD	Modulator input. Connects to a modulator.	Input impedance : 10 kΩ Input level : Approx. 100 mV rms
	5	AF	AF detector output. Fixed, regardless of [AF] position in default settings. (see notes below)	Output impedance : 4.7 kΩ Output level : 100 to 300 mV rms
	6	SQLS	Squelch output. Goes to ground when squelch opens.	Squelch open : Less than 0.3 V/5 mA Squelch closed : More than 6.0 V/100 µA
	7	13.8 V	13.8 V output when power is ON.	Output current : Max. 1 A Connected in parallel with ACC(2) pin 7.
	8	ALC	ALC voltage input.	Control voltage : –4 to 0 V Input impedance : More than 10 kΩ Connected in parallel with ACC(2) pin 5.

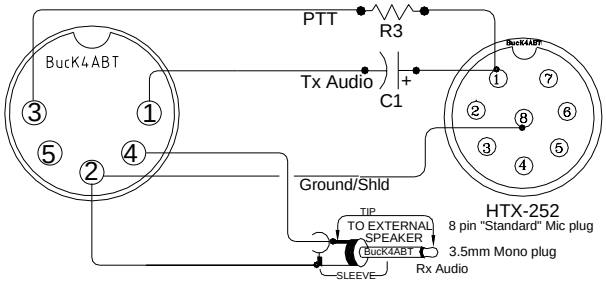
Late Model (most) ICOM transceivers with 8 pin DIN (ACC1) jack.
This ACC1 jack may also work with early Icom transceivers,
however FSK may not be present at pin 1.



Radio Shack Transceivers w/RJ-45 Microphone Connector.

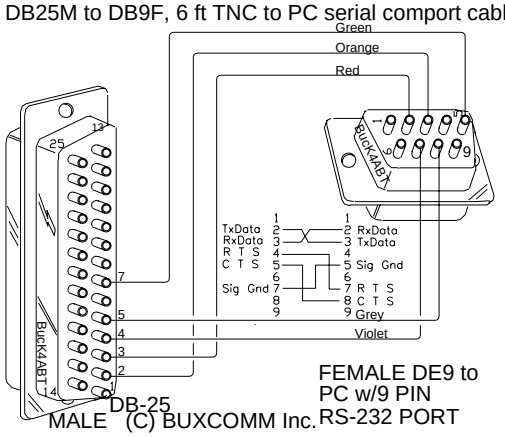


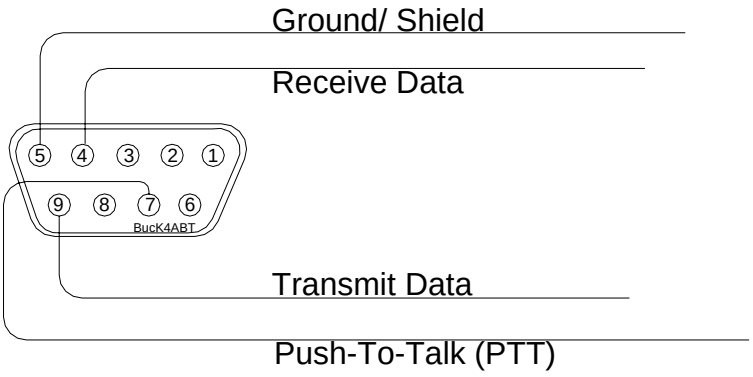
RASCAL GLX to HARRIS RF-3200



BUXCOMM RASCAL GLX to Radio Shack, HTX-252

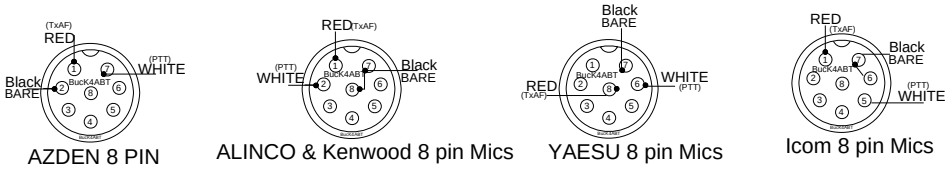
DB25M to DB9F, 6 ft TNC to PC serial comport cable

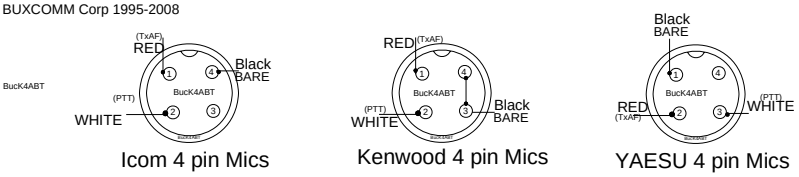




ALINCO DR-135 @ 1.2kb/s KPC3 DB9M

Alinco DR-135, Data I/O accessory jack

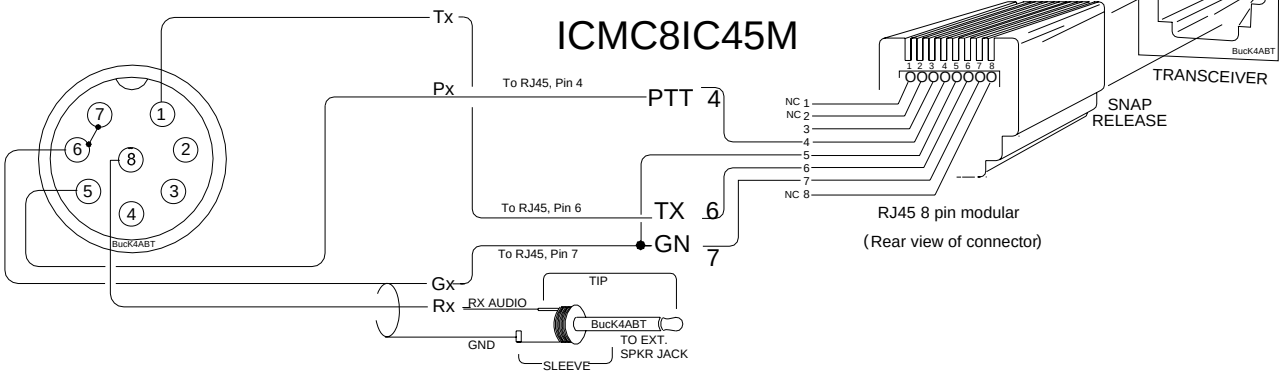




ICOM RJ-45 MIC CONNECTOR I/O

CMC8 MIC "Male" wired for Icom

SOLDER-SIDE



Adapter, Icom 8 pin Screw-On Mic to Icom 8 pin (RJ45) Modular Mic

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Radio Connection Notes: *Figures Begin, Page 9* http://www.buxcomm.com

Note 1 Receive audio is not available on the microphone jack of all radios. If you make this connection and are unable to receive, use the speaker jack on the rear panel of the radio as a source of receive audio.

Note 2 Your radio may not require a plug with 3 connections, i.e. tip, ring, and sleeve. We suggest you use the 3conductor "stereo" plug wired as shown so that if you change radios in the future to another model with this same connections scheme, your cable will be compatible without modification.

Note 3 Older Icom transceivers which use the 8-pin microphone plug may not have receive audio connected to the microphone jack on pin 8. In this case pin 8 is not used. We suggest you make the connection as diagrammed even if your radio does not have receive audio available at pin 8, so that if you change to a newer model Icom radio the cable will be ready to use without modifications. If you make this connection and are unable to receive, use the speaker jack on the rear panel of the radio as a source of receive audio.

Note 4 If you have difficulty in locating an 8-pin DIN plug for this connection, a 5-pin DIN may be used in its place. A 5-pin DIN has all the required pins for connections to Icom HF rigs, because pins 6, 7, and 8 are not used. The numbering and arrangement of the remaining pins is unchanged.

Note 5 In most Ten-Tec radios where an FSK input is provided, a pull-up resistor to a positive power source is required to produce proper function of the FSK keyer in the radio. Contact Ten-Tec for recommendations on how to add this resistor to the radio to which you are connecting.

Note 6 This connection only valid with PCB-88, PK-96, DSP-1232, DSP-2232, and PK-900 Radio Port 2 only. This connection is also appropriate for use at 9600 baud applications with radio in 9k6 DATA mode.

Note 7 This connection only valid with PCB-88, PK-96, DSP-1232, DSP-2232, and PK-900 Radio Port 2 only.

Note 8 This radio uses negative push-to-talk signaling.

Note 9 Based on our experiences with this radio and its RF susceptibility we recommend using this connection diagram if you choose to use **the ACC2 connector.** This radio has shown susceptibility to RF ingress at pin 11 of the ACC2 connector, so we do not connect the AFSK (White wire) in this diagram. Use the FSK mode of this radio when you wish to operate data modes.

Note 10 This connector is valid for ***ALL*** *make and Models* transceivers with *6 pin Mini DIN*, Data I/O jack. For the first time in HAM radio history, ***the Big-Three Icom, Kenwood, & Yaesu*** Ham radio OEMs agreed on this ISO connector as a standard, making accessory TNC and RASCAL GLX interfacing easier. *Alinco did NOT !*

Transceiver Microphone and Accessory jack diagrams

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DR-600T 3 1		

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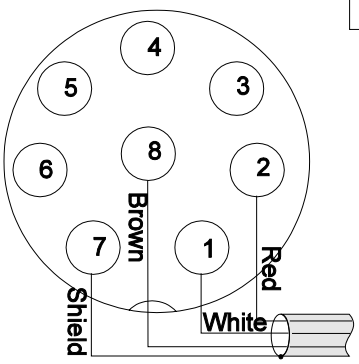
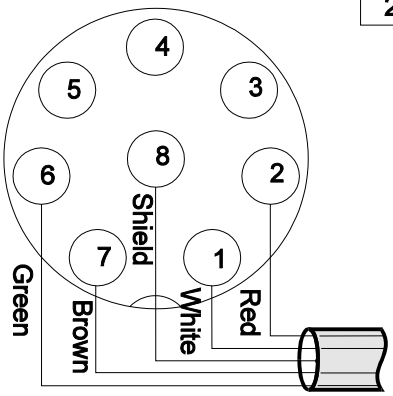


RX Audio: EXT SPKR Jack

2



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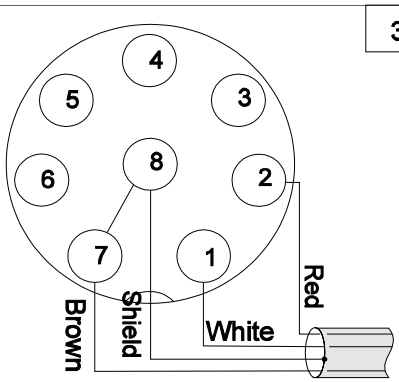

RX Audio: EXT SPKR Jack

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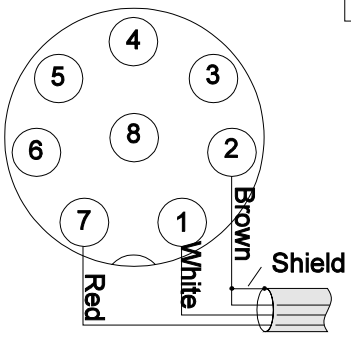

RX Audio: EXT SPKR Jack

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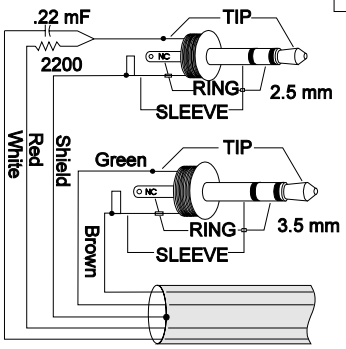

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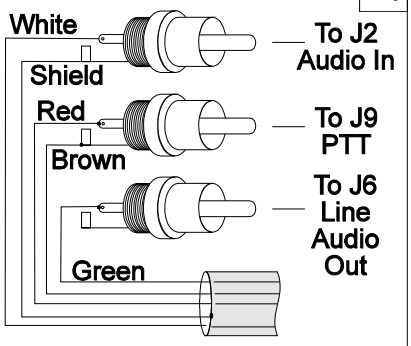

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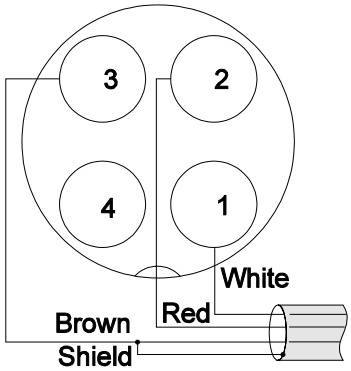

RX Audio: EXT SPKR Jack

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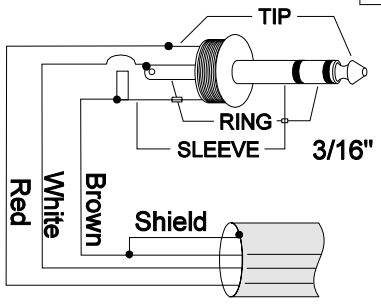

RX Audio: EXT SPKR Jack

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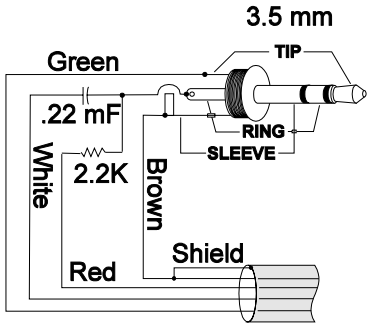

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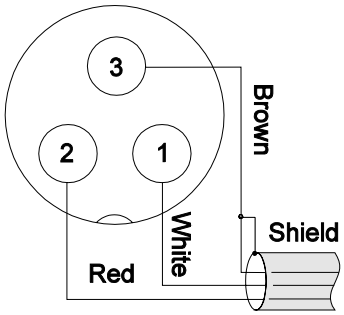
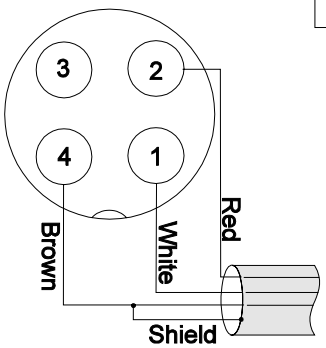


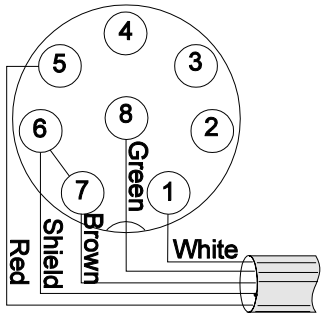
RX Audio: EXT SPKR

11

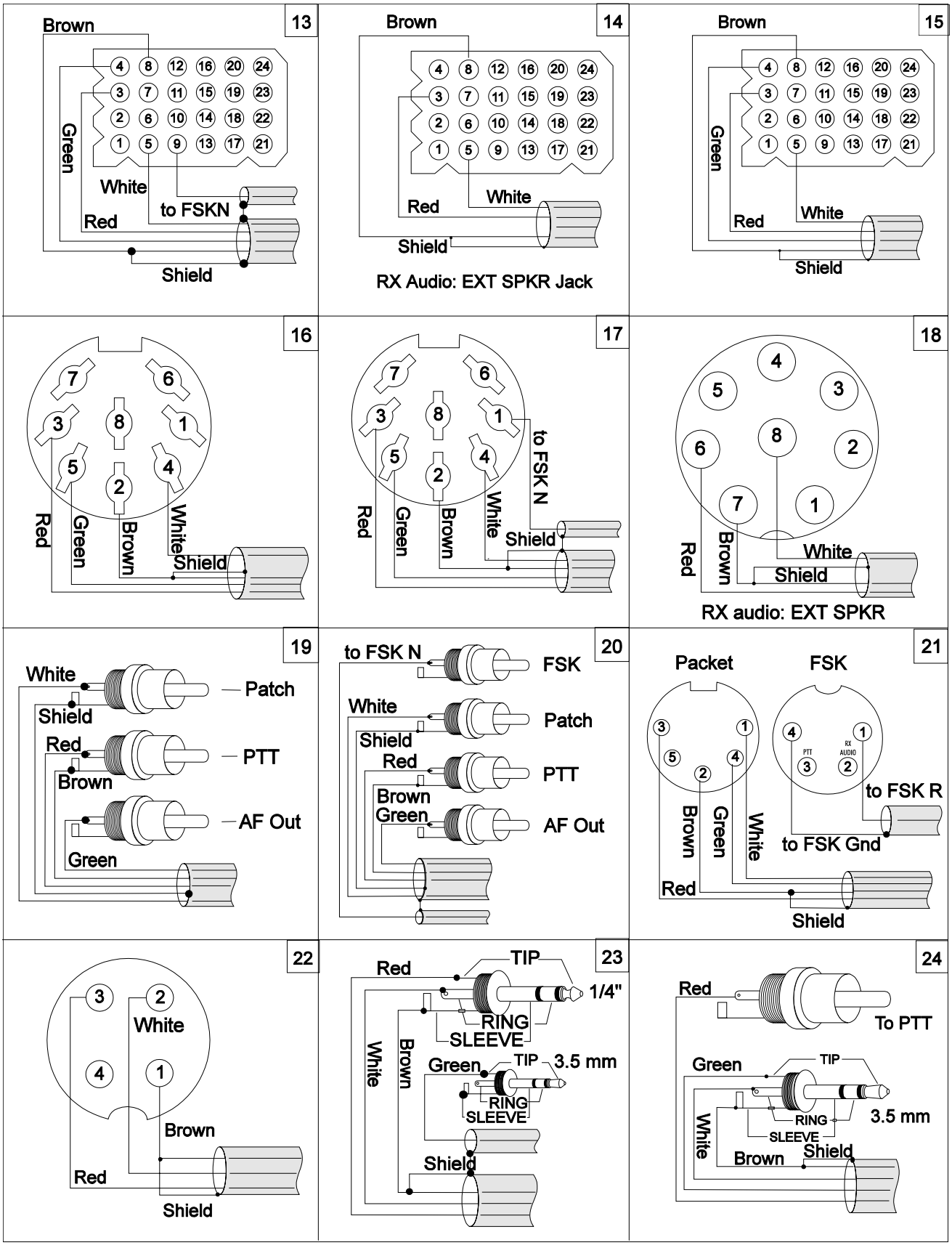


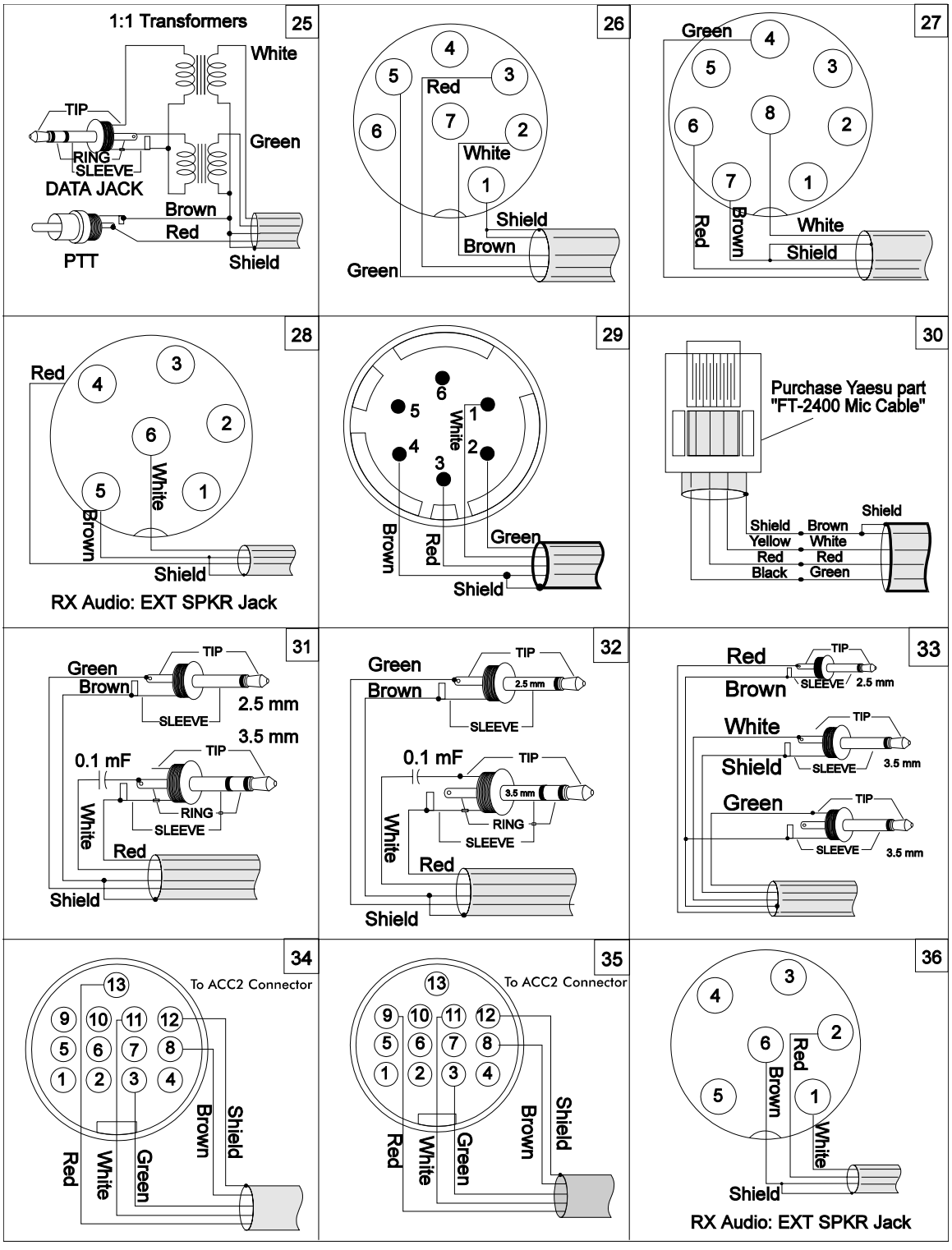
RX Audio: EXT SPKR

12

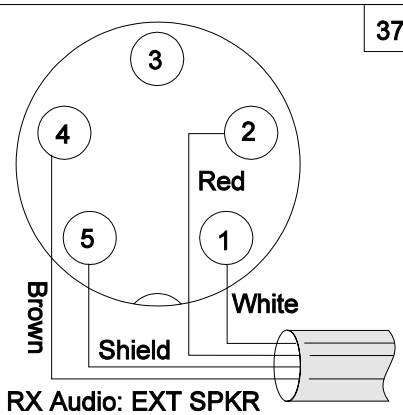


RX Audio:
May require EXT SPKR Jack


13
Brown
Green
White
to FSKN
Red
Shield
14
Brown
Red
White
Shield
RX Audio: EXT SPKR Jack
15
Brown
Green
Red
White
Shield
16
Red
Green
Brown
White
Shield
17
to FSK N
Red
Green
Brown
White
Shield
18
Red
Brown
White
Shield
RX audio: EXT SPKR
19
White
Shield
Patch
Red
Brown
PTT
AF Out
Green
20
to FSK N
FSK
White
Shield
Patch
Red
PTT
Brown
Green
AF Out
21
Packet
FSK
PTT
RX AUDIO
to FSK R
Brown
Green
White
to FSK Gnd
Red
Shield
22
White
Brown
Red
Shield
23
Red
TIP
1/4"
RING
SLEEVE
White
Brown
Green
TIP
3.5 mm
RING
SLEEVE
Shield
24
Red
To PTT
Green
TIP
RING
3.5 mm
SLEEVE
White
Brown
Shield

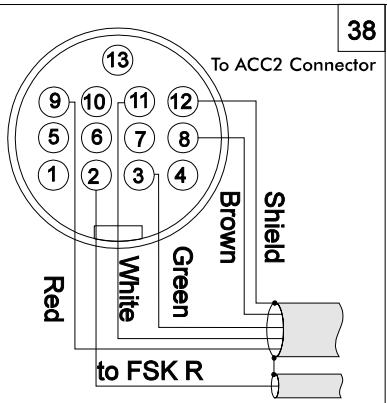

1:1 Transformers
25
White
TIP
Green
RING
SLEEVE
DATA JACK
Brown
Red
PTT
Shield
26
4
5
3
Red
6
7
2
White
1
Shield
Brown
Green
27
Green
4
5
3
6
8
2
7
1
Red
Brown
White
Shield
28
Red
3
4
2
6
5
1
White
Brown
Shield
RX Audio: EXT SPKR Jack
29
6
5
1
White
4
2
3
Brown
Red
Green
Shield
30
Purchase Yaesu part
"FT-2400 Mic Cable"
Shield
Shield
Brown
Yellow
White
Red
Red
Black
Green
31
TIP
Green
Brown
SLEEVE
2.5 mm
3.5 mm
0.1 mF
TIP
RING
SLEEVE
White
Red
Shield
32
TIP
Green
Brown
2.5 mm
SLEEVE
0.1 mF
TIP
3.5 mm
RING
SLEEVE
White
Red
Shield
33
Red
TIP
Brown
SLEEVE
2.5 mm
White
TIP
Shield
SLEEVE
3.5 mm
Green
TIP
SLEEVE
3.5 mm
34
To ACC2 Connector
13
9
10
11
12
5
6
7
8
1
2
3
4
Brown
Shield
Red
White
Green
35
To ACC2 Connector
13
9
10
11
12
5
6
7
8
1
2
3
4
Red
White
Green
Brown
Shield
36
3
4
2
6
Red
Brown
5
1
White
Shield
RX Audio: EXT SPKR Jack

37



RX Audio: EXT SPKR

38



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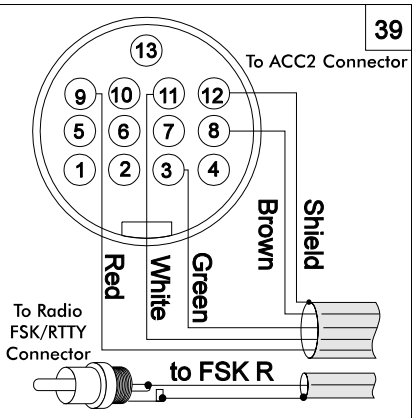
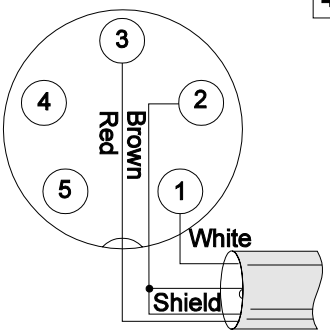
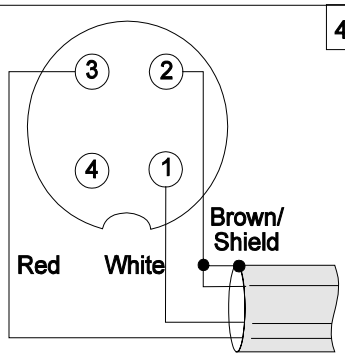


40



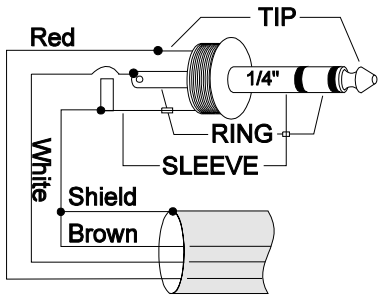
RX Audio: EXT SPKR

41



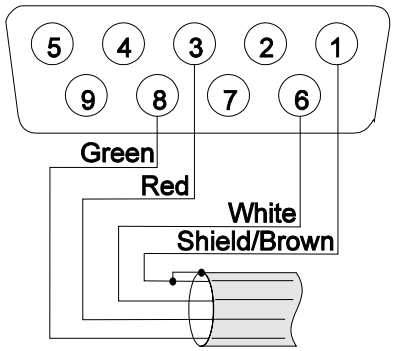
RX Audio: EXT SPKR Jack

42

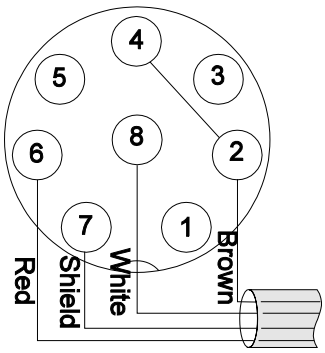


RX Audio: EXT SPKR Jack

43

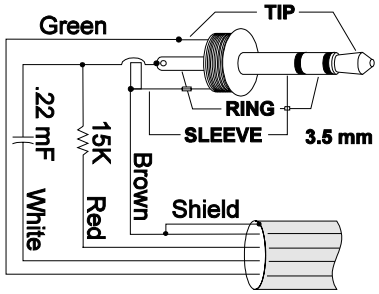


44



RX audio: EXT SPKR

45



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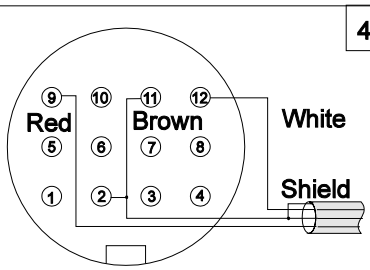
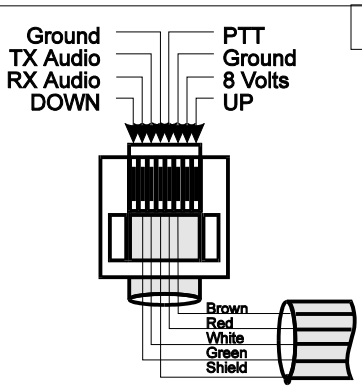


AEA has not been able to confirm the arrangement of pins on this connector. Refer to radio manual

RX Audio: EXT SPKR Jack

47



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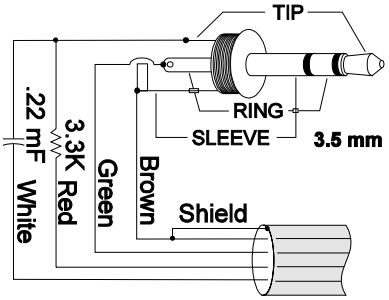

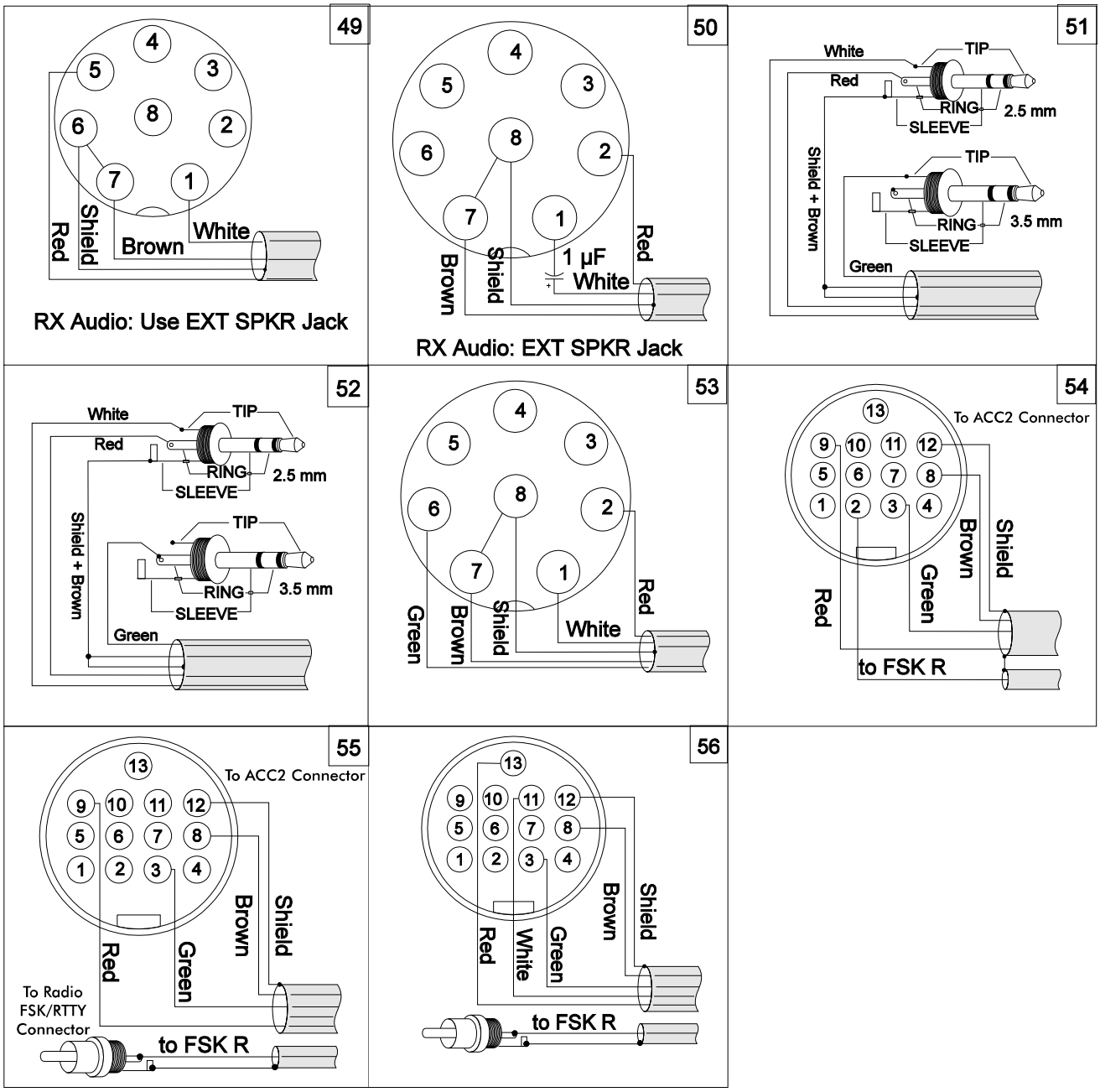

Other diagrams and notes are located page 1 thru 3 of this document.
For more related information, go to: http://www.buxhamsales.com