

ACOM



CAT cables

for ACOM S-series amplifiers

Technical Information

Wiring diagrams

OUTSTANDING HF POWER PRODUCTS

November 2022

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- Title of Documentation** CAT cables for ACOM S-series amplifiers
 Technical Information
 Wiring diagrams
- Type of Documentation** Technical Information
- Purpose of Documentation** This document explains connection between ACOM S-series amplifiers and transceiver via CAT interface cable.

Record of Revisions	Description	Release Date	Notes
	CAT cables for ACOM S-series amplifiers	-	First edition
	CAT cables for ACOM S-series amplifiers	-	Second edition
	CAT cables for ACOM S-series amplifiers	-	Third edition, R01
	CAT cables for ACOM S-series amplifiers	04.10.2021	Third edition, R02
	CAT cables for ACOM S-series amplifiers	09.11.2021	Fourth edition, R01
	CAT cables for ACOM S-series amplifiers	23.11.2022	Fourth edition, R02

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1. GENERAL INFORMATION

Congratulations on using one of ACOM solid-state amplifiers.

ACOM is pleased that you have chosen one of our products, and we will endeavor to provide you with the information and support you need to enjoy your purchase for many years.

We urge you to read all of the following materials before you embark on operating your new amplifier.

Traditionally, the ACOM solid-state series amplifiers are named as **nnnS** or **nnnnS**, where **nnn/nnnn** is a model number (for example ACOM 700S or ACOM 1200S).

All these amplifiers feature CAT (Computer Aided Transceiver) interface for connection to your transceiver.



In this document ACOM solid-state amplifiers are also called ACOM S-series hereafter.

1.1. Introduction and Description

This document includes information (wiring diagrams) for the CAT connection cables for ACOM S-series amplifiers. This information will help you to assembly a right CAT cable to connect your ACOM S-series amplifier to your particular transceiver.

Most of the modern transceivers can be connected by CAT to the ACOM S-series amplifiers. This will allow the amplifier to track the transceiver frequency without any transmission and change the bands automatically when in OPERATE mode.



ACOM S-series amplifiers will operate normally with **CAT/AUX** unconnected if your transceiver has no such input.

ACOM S-series amplifiers require reliable CAT signal transmission between the amplifier and the transceiver. A key role in this is played by the cable and connecting element technology employed.

When you assembled a CAT connection cable by yourself, please, use a cable and connectors according to international and your local standards for trouble free operation.

1.2. Documentation Validity

This document refers to the ACOM S-series power amplifiers and describes the CAT interface connectivity of all amplifiers produced till the publishing date of this manual.

This manual is valid till a new manual is issued.

1.3. To the Reader of this Manual

This document is written for the technically qualified users who will use the ACOM amplifier.

To ensure your safety in accordance with safety and security standards, read this manual carefully and follow the steps described in it.

Everyone who will use the amplifier must read this manual, and follow the instructions in it, and other accompanying ACOM documentation (see Section **1.4 Additional Documentation**), and consider also the appropriate safety precautions.



This document includes information on non-ACOM products, e.g., transceivers.

And because of that, it is the sole user's responsibility to check the correctness of the information as well as to check the original documentation of his transceiver or other equipment.

ACOM is not liable for non-ACOM information correctness or for another's actions and whole responsibility shall be assumed by the user/owner.

Informational notes

Observe the informational notes provided in this manual to ensure reliable and efficient operation of the amplifier. In this manual, you will find the following informational notes:



The information symbol highlights operating procedures or practices that may improve equipment reliability and/or personnel performance, or to emphasize a concept.



*The book symbol represents a **cross reference** to external documentation, e.g., other ACOM manual.*

NOTICE

*These notes call attention to a procedure or instructions which, if not correctly performed, **could result in property damage or equipment damage not exclusively to the amplifier but also to connected equipment.***

Symbols and fonts used for marking text

In this manual the following symbols and fonts are used for marking text:

Format	Meaning
<i>Orange bold text</i>	Identifies all internal links in the document between Sections, Figures, Tables , etc. for your convenience.
BOLD TEXT IN CAPITAL LETTERS	Identifies the connectors, switches, and button names and labels.
TEXT IN CAPITAL LETTERS	Identifies the amplifier operating modes, menu names, etc.

1.4. Additional Documentation

For further important information, please, refer to the following documentation:



- *ACOM 700S User's Manual;*
- *ACOM 1200S User's Manual;*
- *ACOM 2020S User's Manual;*
- *Your transceiver/equipment Manuals.*

The ACOM documentation is available for download at www.acom-bg.com.

1.5. Owner Assistance

If assistance is needed, you should contact your local dealer first. If necessary, your dealer will contact ACOM for additional guidance.

If you still have an issue you need to discuss with one of ACOM's specialists, the contact information is as follows:

ACOM Ltd.

E-mail: support@acom-bg.com

Bulgaria | Bozhurishte 2227

Sofia-Bozhurishte Industrial Park | 6 Valeri Petrov Str.

GPS coordinates: 42.748616° | 23.209801°

2. USED CONNECTING ELEMENTS



ACOM doesn't offer unassembled cable material or connectors. If you need these parts, please, contact your dealer or local electronic store.

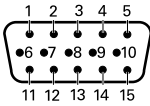
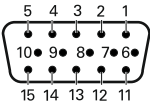
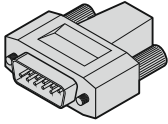
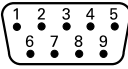
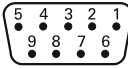
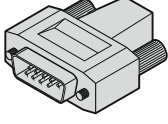
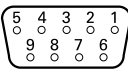
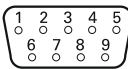
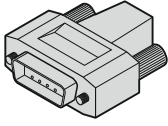
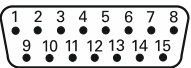
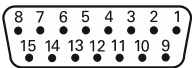
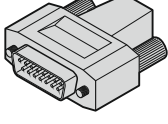
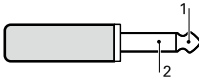
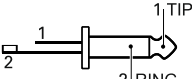
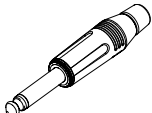
D-sub connectors		
15-pin, 3-row (high density), male		
 <p>Front view</p>	 <p>Solder (rear) view</p>	
9-pin, 2-row, male		
 <p>Front view</p>	 <p>Solder (rear) view</p>	
9-pin, 2-row, female		
 <p>Front view</p>	 <p>Solder (rear) view</p>	
15-pin, 2-row, male		
 <p>Front view</p>	 <p>Solder (rear) view</p>	
Phone plug, male connector		
 <p>Side view</p>	 <p>Side view</p>	

Table 2-1 | Overview of the connectors used
(Continued on the next page)

Circular connectors		
7 or 8 pin, male		
<p>Front view</p>	<p>Solder (rear) view</p>	
Horseshoe DIN plug, 8-pin, male		
<p>Front view</p>	<p>Solder (rear) view</p>	
Mini DIN plug, 8-pin, male		
<p>Front view</p>	<p>Solder (rear) view</p>	
Mini DIN plug, 10-pin, male		
<p>Front view</p>	<p>Solder (rear) view</p>	

Table 2-1 | Overview of the connectors used



The D-sub connectors (15-pin, 3-row (high density), male) used for connection to CAT connector on ACOM S-series amplifiers correspond to IEC 60 807 / DIN 41652 standards.

3. CAT CABLES WIRING DIAGRAMS

3.1. For ELECRAFT Transceivers

3.1.1. ACOM S-series to ELECRAFT K3 RS-232 CAT connection cable



This connection (interface) cable is applicable with other compatible transceivers.

NOTICE

The connection cable must be shielded.

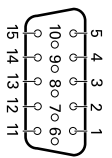
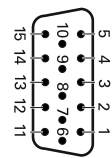
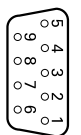
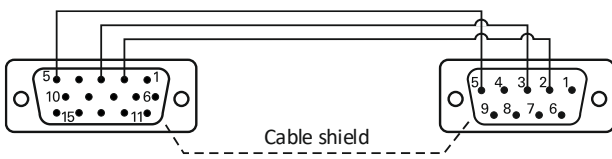
ACOM S-series amplifier Rear panel CAT/AUX connector	Connecting cable			ELECRAFT K3 transceiver / Rear panel RS-232 connector																																															
 <p>1 RxD / RxTTL (IN) 2 RxD / RxRS (IN) 3 TxD / TxRS (OUT) 4 TxD / TxTTL (OUT) 5 GND 6 BAND voltage (IN) 7 Band data 0 (IN) 8 Band data 1 (IN) 9 Band data 2 (IN) 10 Band data 3 (IN) 11 ON RMT (IN) 12 Debug mode 13 KEY-IN 14 KEY-OUT 15 GND Housing</p> <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	 <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</p> <p>D-sub connector, 15-pin, 3-row, male (Solder view)</p>	<table border="1" style="width: 100%; text-align: center;"> <tr><td>1</td><td>Not connected</td><td>1</td></tr> <tr><td>2</td><td>————</td><td>2</td></tr> <tr><td>3</td><td>————</td><td>3</td></tr> <tr><td>4</td><td>Not connected</td><td>4</td></tr> <tr><td>5</td><td>————</td><td>5</td></tr> <tr><td>6</td><td>Not connected</td><td>6</td></tr> <tr><td>7</td><td>Not connected</td><td>7</td></tr> <tr><td>8</td><td>Not connected</td><td>8</td></tr> <tr><td>9</td><td>Not connected</td><td>9</td></tr> <tr><td>10</td><td>Not connected</td><td>-</td></tr> <tr><td>11</td><td>Not connected</td><td>-</td></tr> <tr><td>12</td><td>Not connected</td><td>-</td></tr> <tr><td>13</td><td>Not connected</td><td>-</td></tr> <tr><td>14</td><td>Not connected</td><td>-</td></tr> <tr><td>15</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td>Cable shield</td><td>Housing</td></tr> </table>	1	Not connected	1	2	————	2	3	————	3	4	Not connected	4	5	————	5	6	Not connected	6	7	Not connected	7	8	Not connected	8	9	Not connected	9	10	Not connected	-	11	Not connected	-	12	Not connected	-	13	Not connected	-	14	Not connected	-	15	Not connected	-	Housing	Cable shield	Housing	 <p>1 Not used 2 RXD IN (OUT) 3 TXD OUT (IN) 4 DTR 5 Ground 6 Not used 7 RTS 8 Not used 9 Not used Housing</p> <p>D-sub connector, 9-pin, female (Rear panel front view)</p>
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Housing	Cable shield	Housing																																																	
																																																			

Table 3-1 | Connection cable wiring

3.1.2. ACOM S-series to ELECRAFT K3 BCD Band Data + Keying + Power On connection cable



This connection (interface) cable is applicable with other compatible transceivers.

NOTICE

The connection cable must be shielded.

Be careful not to swap the connectors, because they are of the same type.

NOTICE

The Band Data cables (either BCD or Voltage) must not be used if ACOM 04AT or 06AT automatic antenna tuner and switch are part of the system.

Only serial CAT cables (either RS-232 or TTL) can be used in such a case.



* Earlier K3 may require external Pull-up resistors to 5 V on lines 3, 9, 13, and 14 (transceiver connector side), typically 2.2÷10 kOhm (before Ser.N. 2370), after Dec. 10, 2008, Rev B KIO3 Digital Board.

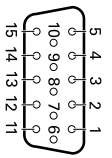
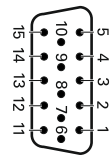
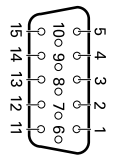
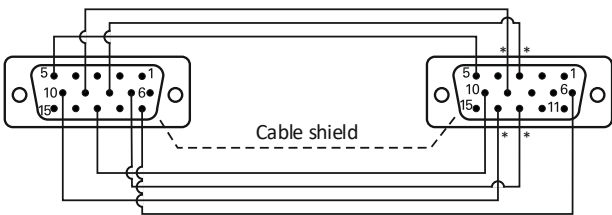
ACOM S-series amplifier Rear panel	Connecting cable			ELECRAFT K3 transceiver / Rear panel																																															
CAT/AUX connector				ACC connector																																															
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Table 3-2 | Connection cable wiring

3.2. For ICOM Trasceivers

3.2.1. ACOM S-series to ICOM CI-V CAT connection cable



This connection (interface) cable is applicable with other compatible transceivers.

NOTICE

The connection cable must be shielded.
 * The pins 1 and 4 on ACOM's side 15-pin male connector must be connected.

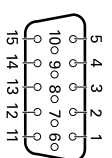
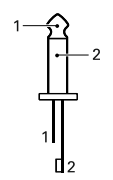
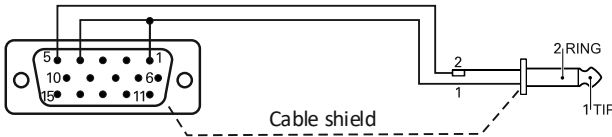
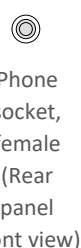
ACOM S-series amplifier Rear panel	Connecting cable			ICOM transceiver Rear panel
CAT/AUX connector				CI-V Remote socket/jack
 <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	1 RxD / RxTTL (IN)	1*	1	1 CI-V (IN/OUT)
	2 RxD / RxRS (IN)	2	Not connected	2 Ground
	3 TxD / TxRS (OUT)	3	Not connected	 <p>Phone plug connector, d=3.5 mm (1/8"), male (Side view)</p>
	4 TxD / TxTTL (OUT)	4*	Not connected	
	5 GND	5	2	
	6 BAND voltage (IN)	6	Not connected	
	7 Band data 0 (IN)	7	Not connected	
	8 Band data 1 (IN)	8	Not connected	
	9 Band data 2 (IN)	9	Not connected	
	10 Band data 3 (IN)	10	Not connected	
	11 ON RMT (IN)	11	Not connected	
	12 Debug mode	12	Not connected	
	13 KEY-IN	13	Not connected	
	14 KEY-OUT	14	Not connected	
	15 GND	15	Not connected	
	Housing	Housing	Cable shield	
				
				 <p>Phone socket, female (Rear panel front view)</p>

Table 3-3 | Connection cable wiring

3.2.2. ACOM S-series to ICOM CI-V CAT + Keying + Power On connection cable



This connection (interface) cable uses two connectors in its transceiver side.

NOTICE

The connection cable must be shielded.

* The pins 1 and 4 on ACOM's side 15-pin male connector must be connected.

** The pin 2 on ICOM's side phone plug and pin 2 on ICOM's side 7(8)-pin male connector must be connected.

ACOM S-series amplifier Rear panel	Connecting cable				ICOM transceiver Rear panel																																																																												
CAT/AUX connector					CI-V Remote socket/jack																																																																												
<p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	1 RxD / RxTTL (IN)	1*	—————	1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">1 CI-V (IN/OUT)</td> <td rowspan="2" style="text-align: center; vertical-align: middle;"> <p>Phone socket, female (Rear panel front view)</p> </td> </tr> <tr> <td>2 Ground</td> </tr> </table>	1 CI-V (IN/OUT)	<p>Phone socket, female (Rear panel front view)</p>	2 Ground																																																																									
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	2 RxD / RxRS (IN)	2	Not connected	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">ACC 1 or ACC 2 sockets</td> </tr> <tr> <td style="width: 50%;">1 </td> <td rowspan="8" style="text-align: center; vertical-align: middle;"> <p>Socket, 7 or 8 pin, female (Rear panel front view)</p> </td> </tr> <tr> <td>2 Ground</td> </tr> <tr> <td>3 SEND (OUT)</td> </tr> <tr> <td>4 </td> </tr> <tr> <td>5 </td> </tr> <tr> <td>6 </td> </tr> <tr> <td>7 +13.8 V (OUT)</td> </tr> <tr> <td>8 </td> </tr> <tr> <td style="text-align: center;">3 TxD / TxRS (OUT)</td> <td style="text-align: center;">3</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">-</td> <td rowspan="15" style="vertical-align: top;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">4 TxD / TxTTL (OUT)</td> <td style="text-align: center;">4*</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">-</td> <td rowspan="15" style="vertical-align: top;"> <p>Phone plug connector, d=3.5 mm (1/8"), male (Side view)</p> </td> </tr> <tr> <td style="text-align: center;">5 GND</td> <td style="text-align: center;">5</td> <td style="text-align: center;">—————</td> <td style="text-align: center;">2**</td> <td rowspan="15" style="vertical-align: top;"> <p>Connector, 7 or 8 pin, male (Solder view)</p> </td> </tr> <tr> <td style="text-align: center;">6 BAND voltage (IN)</td> <td style="text-align: center;">6</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">7 Band data 0 (IN)</td> <td style="text-align: center;">7</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">8 Band data 1 (IN)</td> <td style="text-align: center;">8</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">9 Band data 2 (IN)</td> <td style="text-align: center;">9</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">10 Band data 3 (IN)</td> <td style="text-align: center;">10</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">2**</td> </tr> <tr> <td style="text-align: center;">11 ON RMT (IN)</td> <td style="text-align: center;">11</td> <td style="text-align: center;">—————</td> <td style="text-align: center;">7</td> </tr> <tr> <td style="text-align: center;">12 Debug mode</td> <td style="text-align: center;">12</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">13 KEY-IN</td> <td style="text-align: center;">13</td> <td style="text-align: center;">—————</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">14 KEY-OUT</td> <td style="text-align: center;">14</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">15 GND</td> <td style="text-align: center;">15</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">Housing</td> <td style="text-align: center;">-</td> <td style="text-align: center;">Not connected</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">Housing</td> <td style="text-align: center;">Housing</td> <td style="text-align: center;">Cable shield</td> <td style="text-align: center;">Housing</td> </tr> </table></td></tr></table>	ACC 1 or ACC 2 sockets		1	<p>Socket, 7 or 8 pin, female (Rear panel front view)</p>	2 Ground	3 SEND (OUT)	4	5	6	7 +13.8 V (OUT)	8	3 TxD / TxRS (OUT)	3	Not connected	-	<table border="1" style="width: 100%; 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Table 3-4 | Connection cable wiring

3.3. For KENWOOD Transceivers

3.3.1. ACOM S-series to KENWOOD TS-480 RS-232 CAT connection cable



This connection (interface) cable is applicable with KENWOOD TS-480, TS-590, TS-890, TS-990, TS-2000, and other compatible transceivers.

NOTICE

Connection cable must be shielded.

* The pins 7 and 8 on KENWOOD's side 9-pin female connector must be connected.

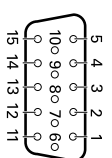
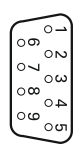
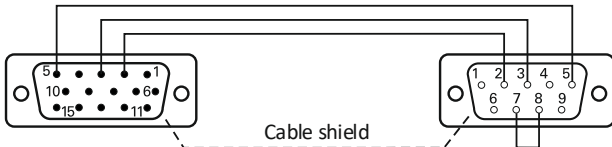
ACOM S-series amplifier Rear panel	Connecting cable			KENWOOD transceiver / Rear panel																																																																			
CAT/AUX connector				COM connector																																																																			
 <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;">1</td><td style="width: 5%;">Not connected</td><td style="width: 5%;">1</td></tr> <tr><td>2</td><td>—————</td><td>2</td></tr> <tr><td>3</td><td>—————</td><td>3</td></tr> <tr><td>4</td><td>Not connected</td><td>4</td></tr> <tr><td>5</td><td>—————</td><td>5</td></tr> <tr><td>6</td><td>Not connected</td><td>6</td></tr> <tr><td>7</td><td>Not connected</td><td>7*</td></tr> <tr><td>8</td><td>Not connected</td><td>8*</td></tr> <tr><td>9</td><td>Not connected</td><td>9</td></tr> <tr><td>10</td><td>Not connected</td><td>-</td></tr> <tr><td>11</td><td>Not connected</td><td>-</td></tr> <tr><td>12</td><td>Not connected</td><td>-</td></tr> <tr><td>13</td><td>Not connected</td><td>-</td></tr> <tr><td>14</td><td>Not connected</td><td>-</td></tr> <tr><td>15</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td>Cable shield</td><td>Housing</td></tr> </table> <p>D-sub connector, 15-pin, 3-row, male (Solder view)</p>	1	Not connected	1	2	—————	2	3	—————	3	4	Not connected	4	5	—————	5	6	Not connected	6	7	Not connected	7*	8	Not connected	8*	9	Not connected	9	10	Not connected	-	11	Not connected	-	12	Not connected	-	13	Not connected	-	14	Not connected	-	15	Not connected	-	Housing	Cable shield	Housing	 <p>D-sub connector, 9-pin, female (Solder view)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;">1</td><td style="width: 5%;">Not used</td></tr> <tr><td>2</td><td>TxD (OUT)</td></tr> <tr><td>3</td><td>RxD (IN)</td></tr> <tr><td>4</td><td>Not used</td></tr> <tr><td>5</td><td>GND</td></tr> <tr><td>6</td><td>Not used</td></tr> <tr><td>7</td><td>RTS (IN)</td></tr> <tr><td>8</td><td>CTS (OUT)</td></tr> <tr><td>9</td><td>Not used</td></tr> <tr><td>Housing</td><td></td></tr> </table> <p>D-sub connector, 9-pin, male (Rear panel front view)</p>	1	Not used	2	TxD (OUT)	3	RxD (IN)	4	Not used	5	GND	6	Not used	7	RTS (IN)	8	CTS (OUT)	9	Not used	Housing	
1	Not connected	1																																																																					
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Housing																																																																							
																																																																							

Table 3-5 | Connection cable wiring

3.4. For YAESU Transceivers

3.4.1. ACOM S-series to YAESU FT-920 RS-232 CAT connection cable



This connection (interface) cable is applicable with other compatible transceivers.

NOTICE

The connection cable must be shielded.

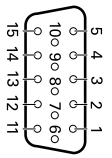
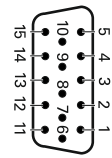
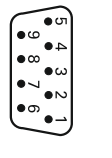
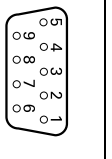
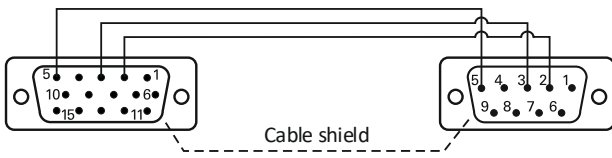
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FT-920 transceiver / Rear panel																																																
CAT/AUX connector				CAT connector																																																
 1 RxD / RxTTL (IN) 2 RxD / RxRS (IN) 3 TxD / TxRS (OUT) 4 TxD / TxTTL (OUT) 5 GND 6 BAND voltage (IN) 7 Band data 0 (IN) 8 Band data 1 (IN) 9 Band data 2 (IN) 10 Band data 3 (IN) 11 ON RMT (IN) 12 Debug mode 13 KEY-IN 14 KEY-OUT 15 GND Housing	 D-sub connector, 15-pin, 3-row, male (Solder view)	<table border="1"> <tr><td>1</td><td>Not connected</td><td>1</td></tr> <tr><td>2</td><td>—————</td><td>2</td></tr> <tr><td>3</td><td>—————</td><td>3</td></tr> <tr><td>4</td><td>Not connected</td><td>4</td></tr> <tr><td>5</td><td>—————</td><td>5</td></tr> <tr><td>6</td><td>Not connected</td><td>6</td></tr> <tr><td>7</td><td>Not connected</td><td>7</td></tr> <tr><td>8</td><td>Not connected</td><td>8</td></tr> <tr><td>9</td><td>Not connected</td><td>9</td></tr> <tr><td>10</td><td>Not connected</td><td>-</td></tr> <tr><td>11</td><td>Not connected</td><td>-</td></tr> <tr><td>12</td><td>Not connected</td><td>-</td></tr> <tr><td>13</td><td>Not connected</td><td>-</td></tr> <tr><td>14</td><td>Not connected</td><td>-</td></tr> <tr><td>15</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td>Cable shield</td><td>Housing</td></tr> </table>	1	Not connected	1	2	—————	2	3	—————	3	4	Not connected	4	5	—————	5	6	Not connected	6	7	Not connected	7	8	Not connected	8	9	Not connected	9	10	Not connected	-	11	Not connected	-	12	Not connected	-	13	Not connected	-	14	Not connected	-	15	Not connected	-	Housing	Cable shield	Housing	 D-sub connector, 9-pin, male (Solder view)	 D-sub connector, 9-pin, female (Rear panel front view)
1	Not connected	1																																																		
2	—————	2																																																		
3	—————	3																																																		
4	Not connected	4																																																		
5	—————	5																																																		
6	Not connected	6																																																		
7	Not connected	7																																																		
8	Not connected	8																																																		
9	Not connected	9																																																		
10	Not connected	-																																																		
11	Not connected	-																																																		
12	Not connected	-																																																		
13	Not connected	-																																																		
14	Not connected	-																																																		
15	Not connected	-																																																		
Housing	Cable shield	Housing																																																		
																																																				

Table 3-6 | Connection cable wiring

3.4.2. ACOM S-series to YAESU FT-1000 RS-232 CAT connection cable



This connection (interface) cable is applicable with YAESU FT-1000, FT-450, FT-2000, FTDX3000, FT5000, FTDX101, FTDX10, FT-991, and other compatible transceivers.

NOTICE

The connection cable must be shielded.

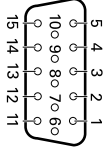
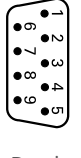
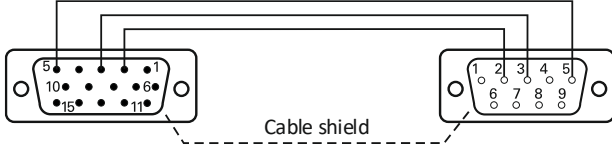
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FT-1000 transceiver / Rear panel		
CAT/AUX connector				CAT connector		
 <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	1 RxD / RxTTL (IN)	1	Not connected	1	1 Not used	 <p>D-sub connector, 9-pin, male (Rear panel front view)</p>
	2 RxD / RxRS (IN)	2	————	2	2 TxD (SERIAL OUT)	
	3 TxD / TxRS (OUT)	3	————	3	3 RxD (SERIAL IN)	
	4 TxD / TxTTL (OUT)	4	Not connected	4	4 Not used	
	5 GND	5	————	5	5 Ground	
	6 BAND voltage (IN)	6	Not connected	6	6 Not used	
	7 Band data 0 (IN)	7	Not connected	7	7 RTS	
	8 Band data 1 (IN)	8	Not connected	8	8 CTS	
	9 Band data 2 (IN)	9	Not connected	9	9 Not used	
	10 Band data 3 (IN)	10	Not connected	-	Housing	
	11 ON RMT (IN)	11	Not connected	-		
	12 Debug mode	12	Not connected	-		
	13 KEY-IN	13	Not connected	-		
	14 KEY-OUT	14	Not connected	-		
	15 GND	15	Not connected	-		
Housing	Housing	Cable shield	Housing			
						

Table 3-7 | Connection cable wiring

**3.4.3. ACOM S-series to YAESU FT-1000
BCD Band Data + Keying + Power On CAT connection cable**

NOTICE

The connection cable must be shielded.

NOTICE

The Band Data cables (either BCD or Voltage) must not be used if ACOM 04AT or 06AT automatic antenna tuner and switch are part of the system.
Only serial CAT cables (either RS-232 or TTL) can be used in such a case.

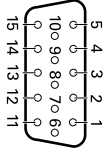
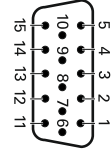


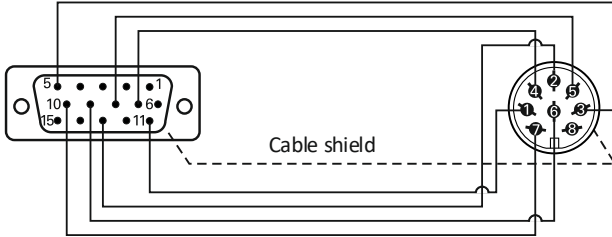
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FT-1000 transceiver / Rear panel																																																																		
CAT/AUX connector				Band Data connector																																																																		
 <p>1 RxD / RxTTL (IN) 2 RxD / RxRS (IN) 3 TxD / TxRS (OUT) 4 TxD / TxTTL (OUT) 5 GND 6 BAND voltage (IN) 7 Band data 0 (IN) 8 Band data 1 (IN) 9 Band data 2 (IN) 10 Band data 3 (IN) 11 ON RMT (IN) 12 Debug mode 13 KEY-IN 14 KEY-OUT 15 GND Housing</p> <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	 <p>15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p> <p>D-sub connector, 15-pin, 3-row, male (Solder view)</p>	<table border="1"> <tr><td>1</td><td>Not connected</td><td>8</td></tr> <tr><td>2</td><td>Not connected</td><td>-</td></tr> <tr><td>3</td><td>Not connected</td><td>-</td></tr> <tr><td>4</td><td>Not connected</td><td>-</td></tr> <tr><td>5</td><td>—————</td><td>3</td></tr> <tr><td>6</td><td>Not connected</td><td>-</td></tr> <tr><td>7</td><td>—————</td><td>4</td></tr> <tr><td>8</td><td>—————</td><td>5</td></tr> <tr><td>9</td><td>—————</td><td>6</td></tr> <tr><td>10</td><td>—————</td><td>7</td></tr> <tr><td>11</td><td>—————</td><td>1</td></tr> <tr><td>12</td><td>Not connected</td><td>-</td></tr> <tr><td>13</td><td>—————</td><td>2</td></tr> <tr><td>14</td><td>Not connected</td><td>-</td></tr> <tr><td>15</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td>Cable shield</td><td>Housing</td></tr> </table>	1	Not connected	8	2	Not connected	-	3	Not connected	-	4	Not connected	-	5	—————	3	6	Not connected	-	7	—————	4	8	—————	5	9	—————	6	10	—————	7	11	—————	1	12	Not connected	-	13	—————	2	14	Not connected	-	15	Not connected	-	Housing	Cable shield	Housing	 <p>Horseshoe DIN plug, 8-pin, male (Solder view)</p>	 <p>Horseshoe DIN connector, 8-pin, female (Rear panel front view)</p> <table border="1"> <tr><td>1</td><td>+13.8 V (OUT)</td></tr> <tr><td>2</td><td>TX GND (OUT)</td></tr> <tr><td>3</td><td>GND</td></tr> <tr><td>4</td><td>Band A (OUT)</td></tr> <tr><td>5</td><td>Band B (OUT)</td></tr> <tr><td>6</td><td>Band C (OUT)</td></tr> <tr><td>7</td><td>Band D (OUT)</td></tr> <tr><td>8</td><td>LINEAR</td></tr> <tr><td>Housing</td><td></td></tr> </table>	1	+13.8 V (OUT)	2	TX GND (OUT)	3	GND	4	Band A (OUT)	5	Band B (OUT)	6	Band C (OUT)	7	Band D (OUT)	8	LINEAR	Housing	
1	Not connected	8																																																																				
2	Not connected	-																																																																				
3	Not connected	-																																																																				
4	Not connected	-																																																																				
5	—————	3																																																																				
6	Not connected	-																																																																				
7	—————	4																																																																				
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10	—————	7																																																																				
11	—————	1																																																																				
12	Not connected	-																																																																				
13	—————	2																																																																				
14	Not connected	-																																																																				
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Housing	Cable shield	Housing																																																																				
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7	Band D (OUT)																																																																					
8	LINEAR																																																																					
Housing																																																																						
 <p style="text-align: center;">Cable shield</p>																																																																						

Table 3-8 | Connection cable wiring

3.4.4. ACOM S-series to YAESU FT-897 TTL CAT + Keying connection cable



This connection (interface) cable is applicable with other compatible transceivers.

NOTICE

The connection cable must be shielded.

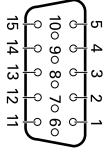




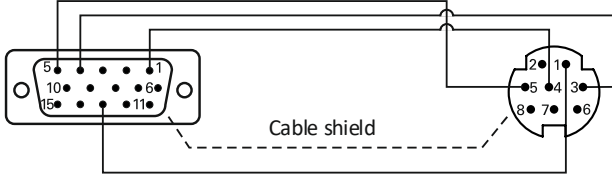
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FT-897 transceiver / Rear panel																																																						
CAT/AUX connector				CAT/Tun/Lin connector/jack																																																						
 <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1 RxD / RxTTL (IN)</td><td>4</td></tr> <tr><td>2 RxD / RxRS (IN)</td><td>Not connected</td><td>2</td></tr> <tr><td>3 TxD / TxRS (OUT)</td><td>Not connected</td><td>6</td></tr> <tr><td>4 TxD / TxTTL (OUT)</td><td>3</td></tr> <tr><td>5 GND</td><td>5</td></tr> <tr><td>6 BAND voltage (IN)</td><td>Not connected</td><td>7</td></tr> <tr><td>7 Band data 0 (IN)</td><td>Not connected</td><td>8</td></tr> <tr><td>8 Band data 1 (IN)</td><td>Not connected</td><td>-</td></tr> <tr><td>9 Band data 2 (IN)</td><td>Not connected</td><td>-</td></tr> <tr><td>10 Band data 3 (IN)</td><td>Not connected</td><td>-</td></tr> <tr><td>11 ON RMT (IN)</td><td>Not connected</td><td>-</td></tr> <tr><td>12 Debug mode</td><td>Not connected</td><td>-</td></tr> <tr><td>13 KEY-IN</td><td>1</td></tr> <tr><td>14 KEY-OUT</td><td>Not connected</td><td>-</td></tr> <tr><td>15 GND</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td></td><td></td></tr> </table> <p>D-sub connector, 15-pin, 3-row, male (Solder view)</p>	1 RxD / RxTTL (IN)	4	2 RxD / RxRS (IN)	Not connected	2	3 TxD / TxRS (OUT)	Not connected	6	4 TxD / TxTTL (OUT)	3	5 GND	5	6 BAND voltage (IN)	Not connected	7	7 Band data 0 (IN)	Not connected	8	8 Band data 1 (IN)	Not connected	-	9 Band data 2 (IN)	Not connected	-	10 Band data 3 (IN)	Not connected	-	11 ON RMT (IN)	Not connected	-	12 Debug mode	Not connected	-	13 KEY-IN	1	14 KEY-OUT	Not connected	-	15 GND	Not connected	-	Housing			 <p>Mini DIN plug, 8-pin, male (Solder view)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1 TX GND (OUT)</td><td rowspan="8" style="vertical-align: middle;">  <p>Mini DIN connector, 8-pin, female (Rear panel front view)</p> </td></tr> <tr><td>2 +13.8 V</td></tr> <tr><td>3 RX D (IN)</td></tr> <tr><td>4 TX D (OUT)</td></tr> <tr><td>5 GND</td></tr> <tr><td>6 TX INH</td></tr> <tr><td>7 Reset</td></tr> <tr><td>8 Band C</td></tr> <tr><td>Housing</td><td></td></tr> </table>	1 TX GND (OUT)	 <p>Mini DIN connector, 8-pin, female (Rear panel front view)</p>	2 +13.8 V	3 RX D (IN)	4 TX D (OUT)	5 GND	6 TX INH	7 Reset	8 Band C	Housing	
1 RxD / RxTTL (IN)	4																																																									
2 RxD / RxRS (IN)	Not connected	2																																																								
3 TxD / TxRS (OUT)	Not connected	6																																																								
4 TxD / TxTTL (OUT)	3																																																									
5 GND	5																																																									
6 BAND voltage (IN)	Not connected	7																																																								
7 Band data 0 (IN)	Not connected	8																																																								
8 Band data 1 (IN)	Not connected	-																																																								
9 Band data 2 (IN)	Not connected	-																																																								
10 Band data 3 (IN)	Not connected	-																																																								
11 ON RMT (IN)	Not connected	-																																																								
12 Debug mode	Not connected	-																																																								
13 KEY-IN	1																																																									
14 KEY-OUT	Not connected	-																																																								
15 GND	Not connected	-																																																								
Housing																																																										
1 TX GND (OUT)	 <p>Mini DIN connector, 8-pin, female (Rear panel front view)</p>																																																									
2 +13.8 V																																																										
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5 GND																																																										
6 TX INH																																																										
7 Reset																																																										
8 Band C																																																										
Housing																																																										
																																																										

Table 3-9 | Connection cable wiring

**3.4.5. ACOM S-series to YAESU FT-897
BCD Band Data + Keying CAT connection cable**



This connection (interface) cable is applicable with YAESU FT-897, and FT-991.

NOTICE

The connection cable must be shielded.

NOTICE

The Band Data cables (either BCD or Voltage) must not be used if ACOM 04AT or 06AT automatic antenna tuner and switch are part of the system.
Only serial CAT cables (either RS-232 or TTL) can be used in such a case.

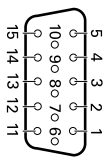

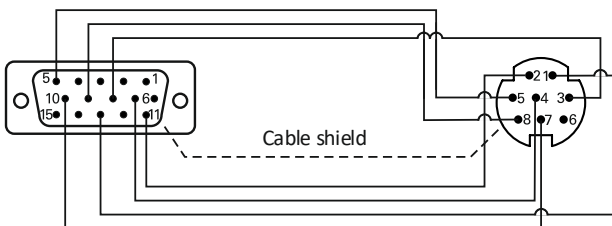
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FT-897 transceiver / Rear panel	
CAT/AUX connector				CAT/Tun/Lin connector/jack	
 D-sub connector, 15-pin, 3-row, female (Rear panel front view)	1 RxD / RxTTL (IN)	1	Not connected	6	 Mini DIN connector, 8-pin, female (Rear panel front view)
	2 RxD / RxRS (IN)	2	Not connected	-	
	3 TxD / TxRS (OUT)	3	Not connected	-	
	4 TxD / TxTTL (OUT)	4	Not connected	-	
	5 GND	5	—————	5	
	6 BAND voltage (IN)	6	Not connected		
	7 Band data 0 (IN)	7	—————	4	
	8 Band data 1 (IN)	8	—————	3	
	9 Band data 2 (IN)	9	—————	8	
	10 Band data 3 (IN)	10	—————	7	
	11 ON RMT (IN)	11	—————	2	
	12 Debug mode	12	Not connected	-	
	13 KEY-IN	13	—————	1	
	14 KEY-OUT	14	Not connected	-	
	15 GND	15	Not connected	-	
Housing	Housing	Cable shield	Housing	Housing	
					

Table 3-10 | Connection cable wiring

3.4.6. ACOM S-series to YAESU FT-817 Analog Band Data CAT + Keying connection cable



This connection (interface) cable is applicable with other compatible transceivers.

NOTICE

The connection cable must be shielded.

NOTICE

The Band Data cables (either BCD or Voltage) must not be used if ACOM 04AT or 06AT automatic antenna tuner and switch are part of the system.

Only serial CAT cables (either RS-232 or TTL) can be used in such a case.

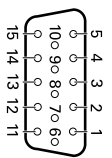
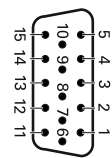
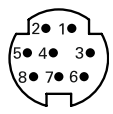
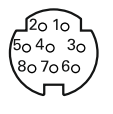
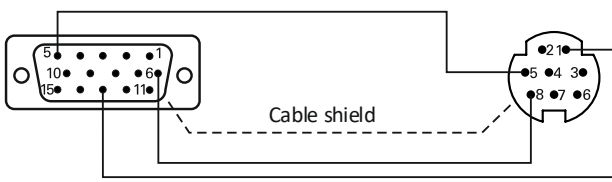
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FT-817 transceiver / Rear panel																																																
CAT/AUX connector				ACC connector																																																
 <p>D-sub connector, 15-pin, 3-row, female (Rear panel front view)</p>	 <p>D-sub connector, 15-pin, 3-row, male (Solder view)</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>Not connected</td><td>2</td></tr> <tr><td>2</td><td>Not connected</td><td>3</td></tr> <tr><td>3</td><td>Not connected</td><td>4</td></tr> <tr><td>4</td><td>Not connected</td><td>6</td></tr> <tr><td>5</td><td>————</td><td>5</td></tr> <tr><td>6</td><td>————</td><td>8</td></tr> <tr><td>7</td><td>Not connected</td><td>7</td></tr> <tr><td>8</td><td>Not connected</td><td>-</td></tr> <tr><td>9</td><td>Not connected</td><td>-</td></tr> <tr><td>10</td><td>Not connected</td><td>-</td></tr> <tr><td>11</td><td>Not connected</td><td>-</td></tr> <tr><td>12</td><td>Not connected</td><td>-</td></tr> <tr><td>13</td><td>————</td><td>1</td></tr> <tr><td>14</td><td>Not connected</td><td>-</td></tr> <tr><td>15</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td>Cable shield</td><td>Housing</td></tr> </table>	1	Not connected	2	2	Not connected	3	3	Not connected	4	4	Not connected	6	5	————	5	6	————	8	7	Not connected	7	8	Not connected	-	9	Not connected	-	10	Not connected	-	11	Not connected	-	12	Not connected	-	13	————	1	14	Not connected	-	15	Not connected	-	Housing	Cable shield	Housing	 <p>Mini DIN plug, 8-pin, male (Solder view)</p>	 <p>Mini DIN connector, 8-pin, female (Rear panel front view)</p>
1	Not connected	2																																																		
2	Not connected	3																																																		
3	Not connected	4																																																		
4	Not connected	6																																																		
5	————	5																																																		
6	————	8																																																		
7	Not connected	7																																																		
8	Not connected	-																																																		
9	Not connected	-																																																		
10	Not connected	-																																																		
11	Not connected	-																																																		
12	Not connected	-																																																		
13	————	1																																																		
14	Not connected	-																																																		
15	Not connected	-																																																		
Housing	Cable shield	Housing																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1 RxD / RxTTL (IN)</td></tr> <tr><td>2 RxD / RxRS (IN)</td></tr> <tr><td>3 TxD / TxRS (OUT)</td></tr> <tr><td>4 TxD / TxTTL (OUT)</td></tr> <tr><td>5 GND</td></tr> <tr><td>6 BAND voltage (IN)</td></tr> <tr><td>7 Band data 0 (IN)</td></tr> <tr><td>8 Band data 1 (IN)</td></tr> <tr><td>9 Band data 2 (IN)</td></tr> <tr><td>10 Band data 3 (IN)</td></tr> <tr><td>11 ON RMT (IN)</td></tr> <tr><td>12 Debug mode</td></tr> <tr><td>13 KEY-IN</td></tr> <tr><td>14 KEY-OUT</td></tr> <tr><td>15 GND</td></tr> <tr><td>Housing</td></tr> </table>	1 RxD / RxTTL (IN)	2 RxD / RxRS (IN)	3 TxD / TxRS (OUT)	4 TxD / TxTTL (OUT)	5 GND	6 BAND voltage (IN)	7 Band data 0 (IN)	8 Band data 1 (IN)	9 Band data 2 (IN)	10 Band data 3 (IN)	11 ON RMT (IN)	12 Debug mode	13 KEY-IN	14 KEY-OUT	15 GND	Housing	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1 TX GND (OUT)</td></tr> <tr><td>2 +13.8 V</td></tr> <tr><td>3 RXD</td></tr> <tr><td>4 TXD</td></tr> <tr><td>5 GND</td></tr> <tr><td>6 TX INH</td></tr> <tr><td>7 ALC</td></tr> <tr><td>8 BandData (OUT)</td></tr> <tr><td>Housing</td></tr> </table>	1 TX GND (OUT)	2 +13.8 V	3 RXD	4 TXD	5 GND	6 TX INH	7 ALC	8 BandData (OUT)	Housing																										
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2 RxD / RxRS (IN)																																																				
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Table 3-11 | Connection cable wiring

**3.4.7. ACOM S-series to YAESU FTDX-101
BCD Band Data + Keying + Power On connection cable**

NOTICE

The connection cable must be shielded.

NOTICE

The Band Data cables (either BCD or Voltage) must not be used if ACOM 04AT or 06AT automatic antenna tuner and switch are part of the system.
Only serial CAT cables (either RS-232 or TTL) can be used in such a case.

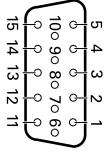
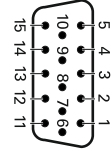
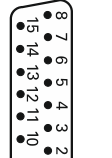
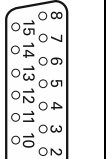
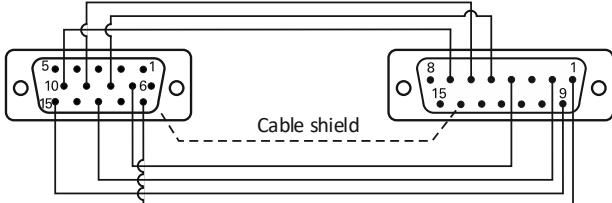
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FTDX-101 transceiver / Rear panel																																																																
CAT/AUX connector				LINEAR connector																																																																
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Table 3-12 | Connection cable wiring

**3.4.8. ACOM S-series to YAESU FTDX-10
BCD Band Data + Keying + Power On connection cable**



This connection (interface) cable is applicable with YAESU FTDX-10, FT-950, and FT-450.

NOTICE

The connection cable must be shielded.

NOTICE

The Band Data cables (either BCD or Voltage) must not be used if ACOM 04AT or 06AT automatic antenna tuner and switch are part of the system.

Only serial CAT cables (either RS-232 or TTL) can be used in such a case.

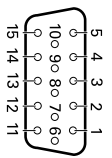
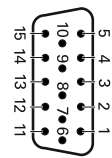
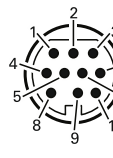
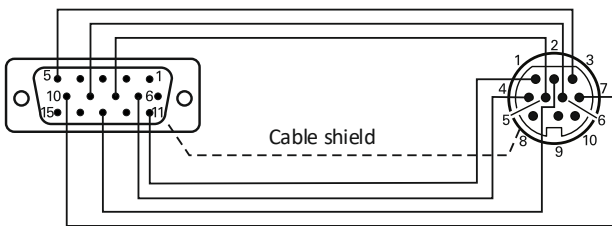
ACOM S-series amplifier Rear panel	Connecting cable			YAESU FTDX-10 transceiver / Rear panel																																																																						
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 1 RxD / RxTTL (IN) 2 RxD / RxRS (IN) 3 TxD / TxRS (OUT) 4 TxD / TxTTL (OUT) 5 GND 6 BAND voltage (IN) 7 Band data 0 (IN) 8 Band data 1 (IN) 9 Band data 2 (IN) 10 Band data 3 (IN) 11 ON RMT (IN) 12 Debug mode 13 KEY-IN 14 KEY-OUT 15 GND Housing	 D-sub connector, 15-pin, 3-row, male (Solder view)	<table border="1"> <tr><td>1</td><td>Not connected</td><td>8</td></tr> <tr><td>2</td><td>Not connected</td><td>9</td></tr> <tr><td>3</td><td>Not connected</td><td>10</td></tr> <tr><td>4</td><td>Not connected</td><td>-</td></tr> <tr><td>5</td><td>—————</td><td>3</td></tr> <tr><td>6</td><td>Not connected</td><td>-</td></tr> <tr><td>7</td><td>—————</td><td>4</td></tr> <tr><td>8</td><td>—————</td><td>5</td></tr> <tr><td>9</td><td>—————</td><td>6</td></tr> <tr><td>10</td><td>—————</td><td>7</td></tr> <tr><td>11</td><td>—————</td><td>1</td></tr> <tr><td>12</td><td>Not connected</td><td>-</td></tr> <tr><td>13</td><td>—————</td><td>2</td></tr> <tr><td>14</td><td>Not connected</td><td>-</td></tr> <tr><td>15</td><td>Not connected</td><td>-</td></tr> <tr><td>Housing</td><td>Cable shield</td><td>Housing</td></tr> </table>	1	Not connected	8	2	Not connected	9	3	Not connected	10	4	Not connected	-	5	—————	3	6	Not connected	-	7	—————	4	8	—————	5	9	—————	6	10	—————	7	11	—————	1	12	Not connected	-	13	—————	2	14	Not connected	-	15	Not connected	-	Housing	Cable shield	Housing	 Mini DIN plug, 10-pin, male (Solder view)	<table border="1"> <tr><td>1</td><td> +13.8 V (OUT)</td></tr> <tr><td>2</td><td> TX GND (OUT)</td></tr> <tr><td>3</td><td> GND</td></tr> <tr><td>4</td><td> Band A (OUT)</td></tr> <tr><td>5</td><td> Band B (OUT)</td></tr> <tr><td>6</td><td> Band C (OUT)</td></tr> <tr><td>7</td><td> Band D (OUT)</td></tr> <tr><td>8</td><td> TX INH</td></tr> <tr><td>9</td><td> EXT ALC</td></tr> <tr><td>10</td><td> TX REQ IN</td></tr> <tr><td colspan="2">Housing</td></tr> </table> Mini DIN connector, 10-pin, female (Rear panel front view)	1	+13.8 V (OUT)	2	TX GND (OUT)	3	GND	4	Band A (OUT)	5	Band B (OUT)	6	Band C (OUT)	7	Band D (OUT)	8	TX INH	9	EXT ALC	10	TX REQ IN	Housing	
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Table 3-13 | Connection cable wiring

3.5. For ACOM S-series to USB–RS-232 Adapter CAT connection cable



The USB–RS-232 adapter is used to connect ACOM S-series amplifier to PC's USB port, if your PC hasn't integrated RS-232 serial port.

NOTICE

The connection cable must be shielded.

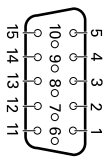
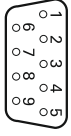
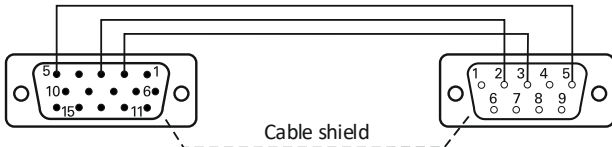
ACOM S-series amplifier Rear panel	Connecting cable			USB–RS-232 adapter																																																																																																				
CAT/AUX connector				RS-232 connector																																																																																																				
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Table 3-14 | Connection cable wiring

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