WIRELESS PACIFIC™

# X10DR®
## LITE

## XCA Lite Series
## Cable Adaptor Wiring Diagrams

X10DR®

Date: 13th Nov 2017    Revision: 0

# **XIC-0.5** Interface cable 50cm:
# **XIC-1.5** Interface cable 150cm:
# **XIC-6.2** Interface cable 620cm:

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RJ45 shielded male

RJ45 shielded male

| 8 | Ext PTT to radio | 8 |
| 7 | COR/ Audio unmute from radio | 7 |
| 6 | Mic Lo | 6 |
| 5 | Ext Mic Hi Output/Radio On detect | 5 |
| 4 | Radio Receive audio | 4 |
| 3 | | 3 |
| 2 | Power nominal +12VDC | 2 |
| 1 | DC Ground | 1 |
| shield | shield/drain | shield |

1  8
Top View

Front View
8  1
**Plug**

1  8
Top View

Front View
8  1
**Plug**

50-620 cm

26#4P+AB OD:6.0MM

RJ45 shielded male

RJ45 shielded male

X10DR®

Date: May12th 2017    Revision: O
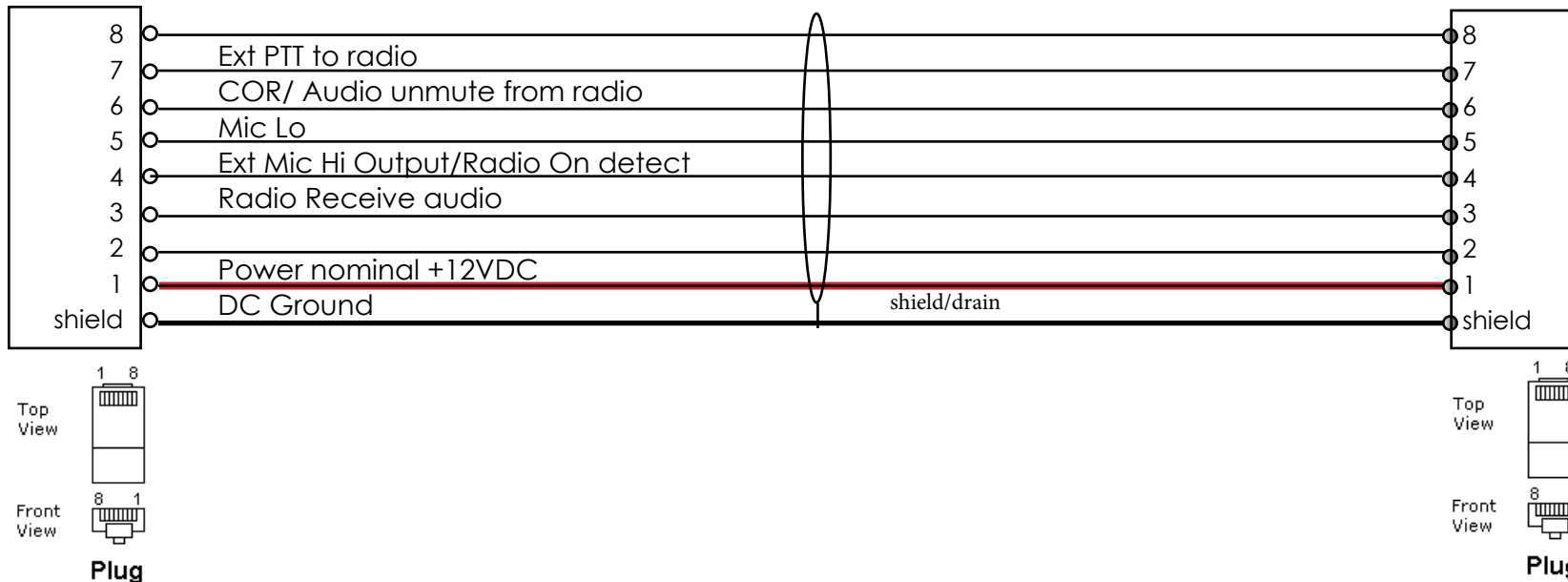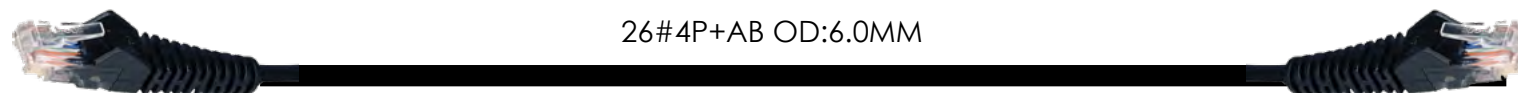
# XEC-4.5 Extension cable 450cm:

**WIRELESS PACIFIC™**

RJ45 shielded female

RJ45 shielded male

| 8 | Ext PTT to radio | 8 |
| 7 | COR/ Audio unmute from radio | 7 |
| 6 | Mic Lo | 6 |
| 5 | Ext Mic Hi Output/Radio On detect | 5 |
| 4 | Radio Receive audio | 4 |
| 3 |  | 3 |
| 2 | Power nominal +12VDC | 2 |
| 1 | DC Ground | 1 |
| shield | shield/drain | shield |

1    8

Front View

**Receptacle**

1   8

Top View

8   1
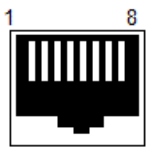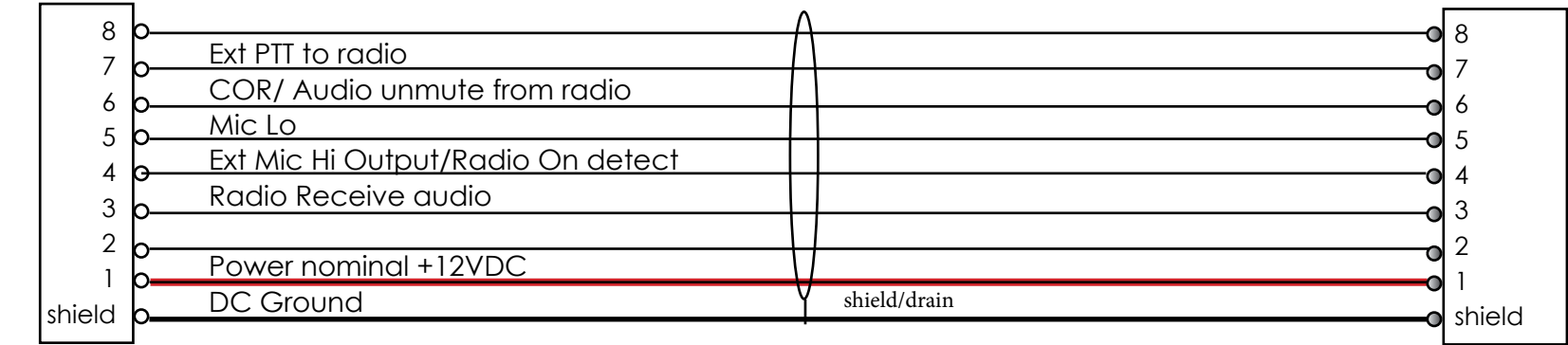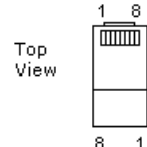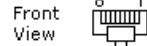
Front View

**Plug**

—————————— 450 cm ——————————

26#4P+AB OD:6.0MM
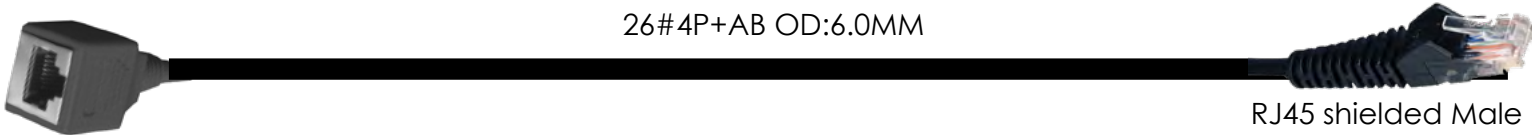
RJ45 shielded Male

RJ45 shielded Female

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# Cable Adaptors

| | | |
|---|---|---|
| XCA-M26 | Suits Motorola 26 pin Mototrbo | Type 1 |
| XCA-M26T | Suits Motorola 26 pin MTM5400 | Type 1 |
| XCA-M16 | Suits Motorola 16 pin | Type 1 |
| XCA-K25 | Suits Kenwood DB25: NX700/TK5710/TK7180 | Type 1 |
| XCA-K25M | Suits Kenwood DB25 TK690 | Type 2 |
| XCA-K15M | Suits Kenwood DB15HD for NX720 | Type 2 |
| XCA-RJK | Generic Kenwood (uses Radio Mic socket) | Type 3 |
| XCA-I25A | Suits Icom DB25 | Type 2 |
| XCA-I25M | Suits Icom DB25  F5400/6400 | Type 2 |
| XCA-I15M | Suits Icom DB15HD | Type 2 |
| XCA-V25M | Suits Vertex DB25 | Type 2 |
| XCA-T15M | Suits Tait DB15) | Type 2 |
| XCA-H26M | Suits Hytera MD68/78X | Type 2 |
| XCA-JM | Suits EFJohnson VM900 DB25 | Type 2 |
| XCA-R25M | Suits RELM DB25 | Type 2 |
| XCA-R15M | Suits RELM G/DMH | Type 2 |
| XCA-U25M | Generic RJ45F-DB25M (partially terminated) | Type 2 |
| XCA-U15M | Generic RJ45F-DB15M  (partially terminated) | Type 2 |

# XCA-**M Modification Instructions

 The XCA type 2 Interface adaptors may be modified to change or add custom wiring to suit specialised applications or to use with radios not currently supported for  mass production of This document shows how to perform such modifications.

Step 1 : Separate the connector from the housing:
 Slide a pair of tweezers or small flat blade screwdriver behind the connector while, at the same time opening the clips either side of the housing – as shown below:

Once one side is loose, do the same for the other side.

Then carefully pull out the connector to expose the pins.
Take care not to pull the connector assembly out too far and break any connections:

| Date: | Revision: |
|-------|-----------|

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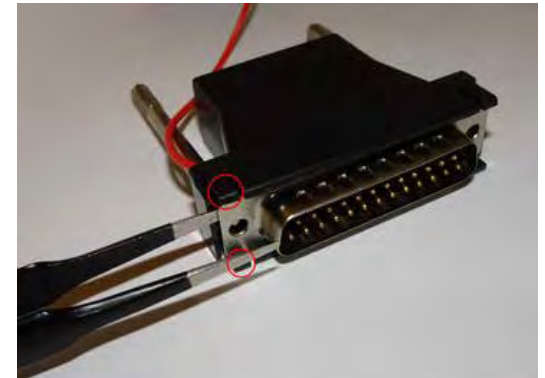
# XCA-**M Modification Instructions (cont)

**Step 2 :** Thread wire and prepare Thread the new wire through one of the access holes either side of the thumbscrews. Leave about 40mm (1½") inside the connector. Remove the hot melt glue from the desired pin:

**Step 3 :** Solder, Re-apply Glue and Re-assemble:
Solder (or change) desired wire(s), then apply hot-melt glue over the contact and wire to ensure joints remain secure in heavy vibration environments:

Complete

| Date: | Revision: |
|---|---|
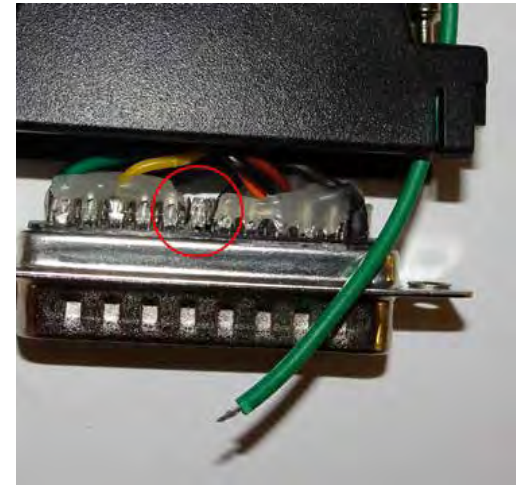
# XCA-M26 Cable Adaptor:
## for Motorola Trbo XPR and DM3600 etc series

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Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
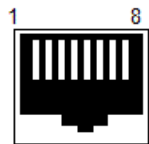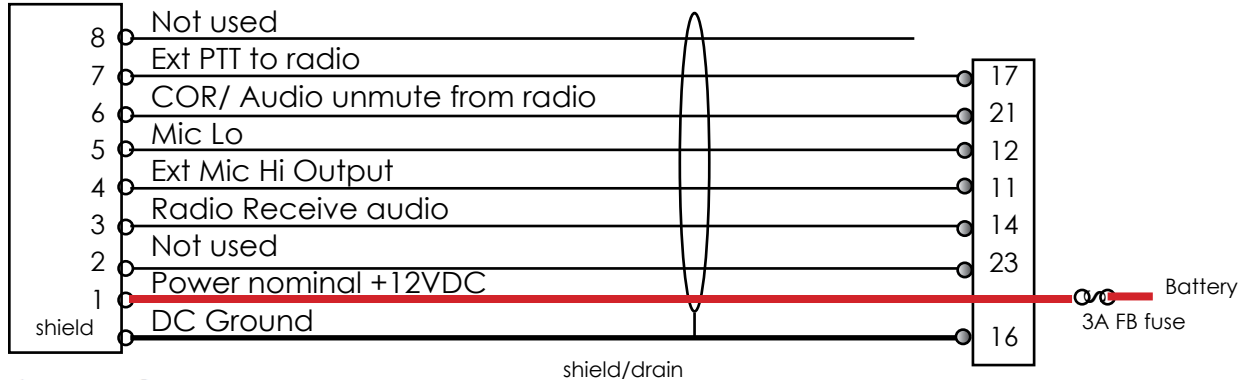
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

 * also refer x10dr lite service manual at:

www.x10dr.com/lite page 12..

Female RJ45 shielded

Motorola Trbo 26 Pin

| RJ45 Pin | Description | Trbo Pin |
|---|---|---|
| 8 | Not used | |
| 7 | Ext PTT to radio | 17 |
| 6 | COR/ Audio unmute from radio | 21 |
| 5 | Mic Lo | 12 |
| 4 | Ext Mic Hi Output | 11 |
| 3 | Radio Receive audio | 14 |
| 2 | Not used | 23 |
| 1 | Power nominal +12VDC | |
| shield | DC Ground | 16 |

Battery
3A FB fuse

shield/drain

1   8

Front View

**Receptacle**

18cm

Shielded black
Female
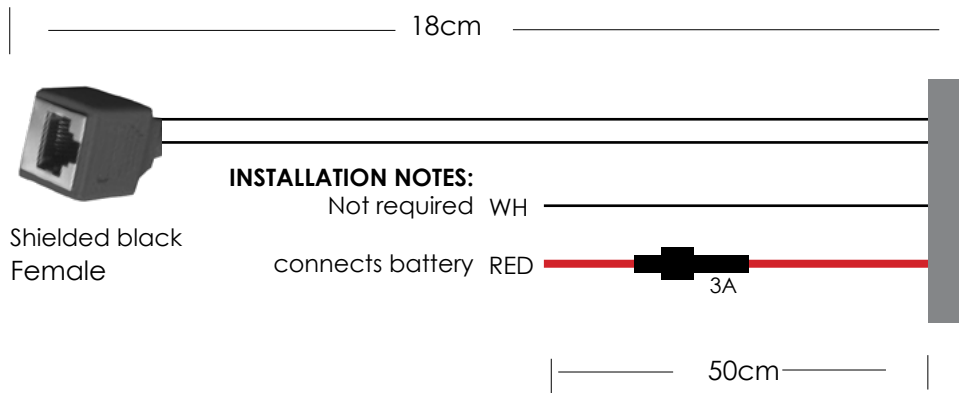
**INSTALLATION NOTES:**
Not required   WH

connects battery   RED
3A

50cm

**Do NOT ground white wire**

| Pin | Signal | | Pin | Signal |
|---|---|---|---|---|
| 1 | D+ | | 2 | D- |
| 3 | Vbus | | 4 | USB / MAP_ID Ground |
| 5 | MAP_ID_2 | | 6 | MAP_ID_1 |
| 7 | SW B+ | | 8 | Power Ground |
| 9 | Spkr- | | 10 | Spkr+ |
| 11 | Tx Audio | | 12 | Audio Ground |
| 13 | Aux Audio Out 1 / RxD | | 14 | Rx Audio |
| 15 | Aux Audio Out 2 / TxD | | 16 | Ground |
| 17 | GP5_1 (PTT) | | 18 | Ground |
| 19 | GP5_2 (Monitor) | | 20 | GP5_6 |
| 21 | GP5_3 (Chan Act) | | 22 | GP5_7 |
| 23 | Emerg Sw | | 24 | GP5_8 |
| 25 | Ign Sense | | 26 | VIP_1 (Ext Alarm) |

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Date: May12th 2017   Revision:1

# XCA-M26T Cable Adaptor:
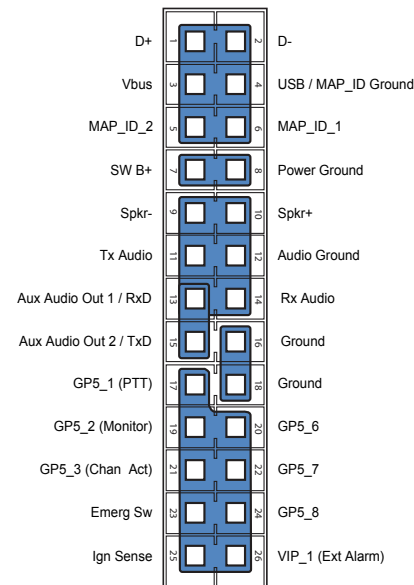## for Motorola MTM5400 TETRA radio etc series

**WIRELESS PACIFIC™**

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

 * also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

Female RJ45 shielded

Motorola MTM 26 Pin

| Pin | Signal | Wire | MTM Pin |
|-----|--------|------|---------|
| 8 | not used | wht | |
| 7 | Ext PTT to radio | brn | 17 |
| 6 | COR/ Audio unmute from radio | yel | |
| 5 | Mic Lo | grn | 18 |
| 4 | Ext Mic Hi Output | red | 13 |
| 3 | Radio Receive audio | blk | 14 |
| 2 | Not used | org | 23 |
| 1 | Power nominal +12VDC | blu | |
| shield | DC Ground | shld | 8 |

Battery
3A FB fuse

shield/drain

1    8

Front View

**Receptacle**

18cm

Shielded black Female

**INSTALLATION NOTES:**

Not required  WH        *Un-stripped*

connects battery  RED        3A

*Connects to drain/shield*

**Do NOT ground white wire**

50cm

| Left Signal | Pin | Pin | Right Signal |
|-------------|-----|-----|--------------|
| D+ | 1 | 2 | D- |
| Vbus | 3 | 4 | USB / MAP_ID Ground |
| MAP_ID_2 | 5 | 6 | MAP_ID_1 |
| SW B+ | 7 | 8 | Power Ground |
| Spkr- | 9 | 10 | Spkr+ |
| | 11 | 12 | |
| Tx Audio | 13 | 14 | Rx Audio |
| Aux Audio Out 2 / TxD | 15 | 16 | |
| GP5_1 (PTT) | 17 | 18 | Ground |
| GP5_2 (Monitor) | 19 | 20 | GP5_6 |
| GP5_3 (Chan Act) | 21 | 22 | GP5_7 |
| Emerg Sw | 23 | 24 | GP5_8 |
| Ign Sense | 25 | 26 | VIP_1 (Ext Alarm) |

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Date: May12th 2017    Revision: 2

# XCA-M16 Cable Adaptor:
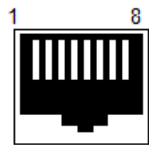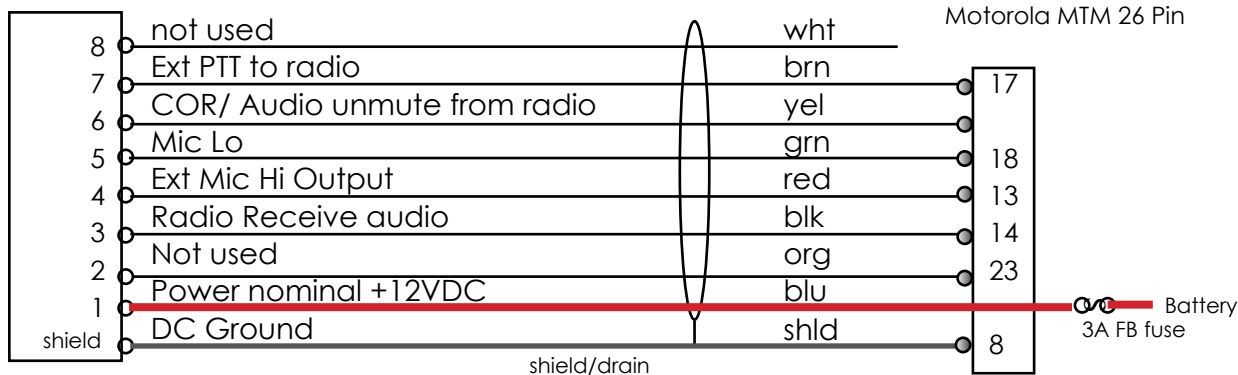## For Motorola GM360/MCX/PM400/CDM etc

**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.
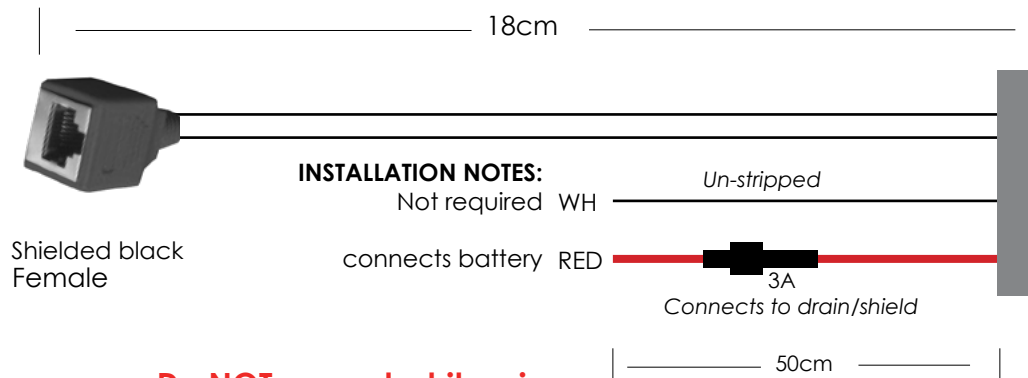
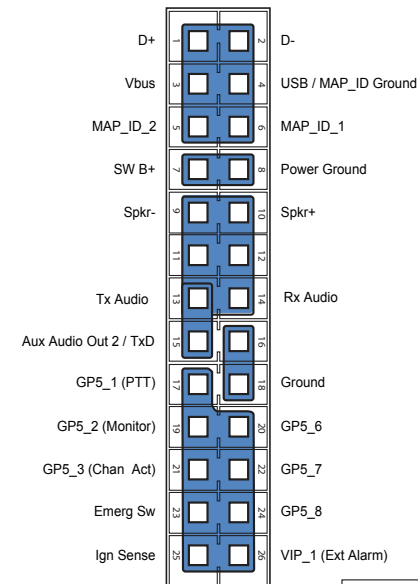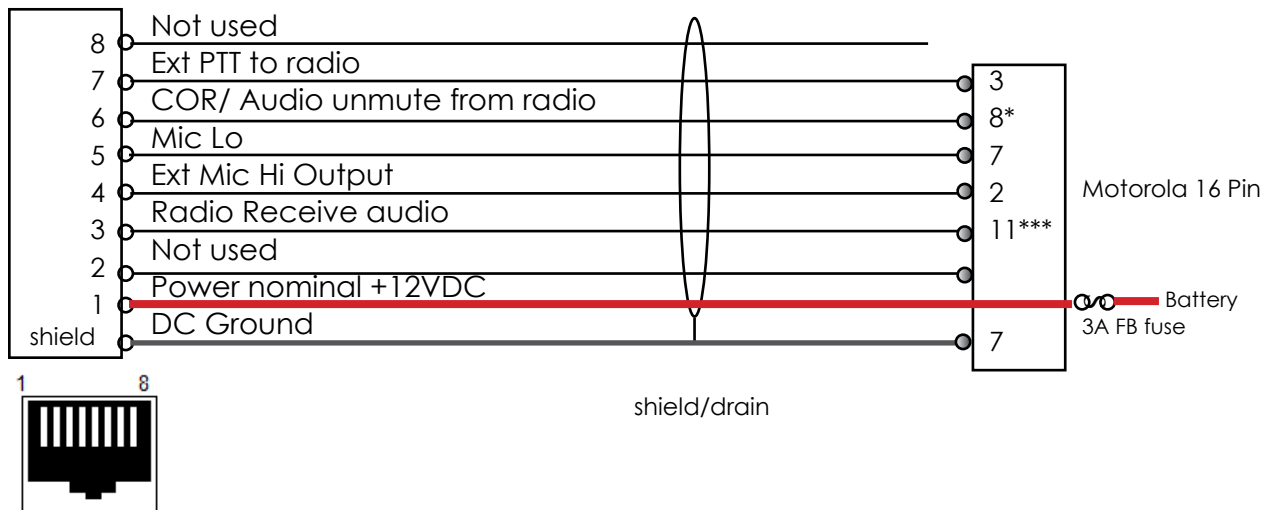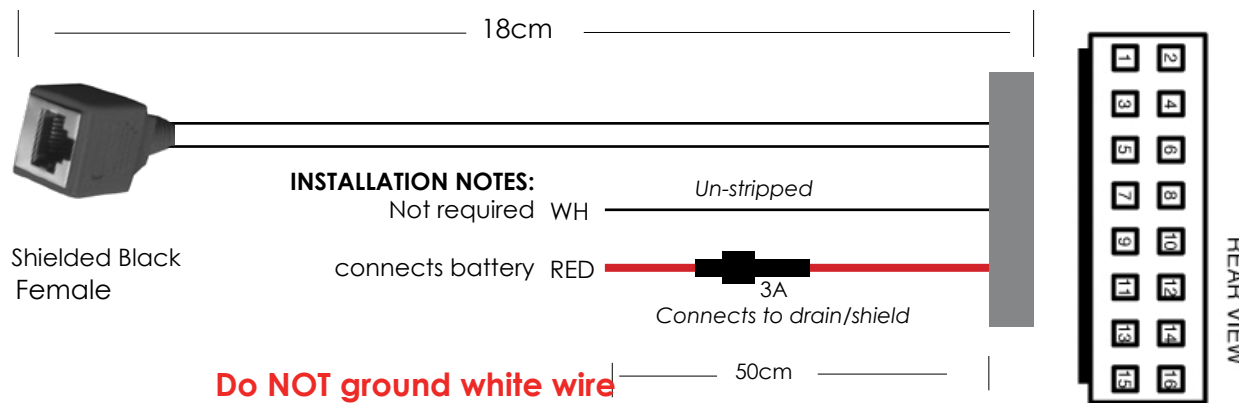\* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

### Note:
Motorola have over the years used the 16 pin connector on a wide variety of models. You should check the radio programming and/or jumpering to ensure correct operation of the X10DR unit.

\*   Pin 8 or Pin 4: COR availability depends on model.  Connect ONLY if available

\*\*   Pin 9: may need programming for Emergency.

\*\*\* Pin 11: Audio should be set for pre-emphasis and gated where applicable by either programming or hardware jumper as applicable. If gated audio is not available, turn OFF VOX function on X10DR gateway is only other option however COR MUST be connected, be aware occasional noise burst may sound in Secure Mic depending on radio's COR performance.

**BEWARE:**
before attempting connection for **GTX/LTS** refer their specific service manual.

Female RJ45 shielded

| Pin | Signal | | Motorola Pin |
|---|---|---|---|
| 8 | Not used | | |
| 7 | Ext PTT to radio | | 3 |
| 6 | COR/ Audio unmute from radio | | 8* |
| 5 | Mic Lo | | 7 |
| 4 | Ext Mic Hi Output | | 2 |
| 3 | Radio Receive audio | | 11*** |
| 2 | Not used | | |
| 1 | Power nominal +12VDC | | Battery |
| shield | DC Ground | | 7 |

Motorola 16 Pin

3A FB fuse

shield/drain

**1    8**
Front View

**Receptacle**

18cm

**INSTALLATION NOTES:**
Not required   WH     *Un-stripped*

connects battery   RED     3A
*Connects to drain/shield*

Shielded Black
Female

REAR VIEW

| | |
|---|---|
| 1 | 2 |
| 3 | 4 |
| 5 | 6 |
| 7 | 8 |
| 9 | 10 |
| 11 | 12 |
| 13 | 14 |
| 15 | 16 |

50cm

**Do NOT ground white wire**

X10DR®

Date: Jan12th 2018    Revision2

# XCA-K25A cable adaptor:
## for Kenwood NX700 / TK5710, TK5720, TK8180 etc
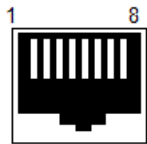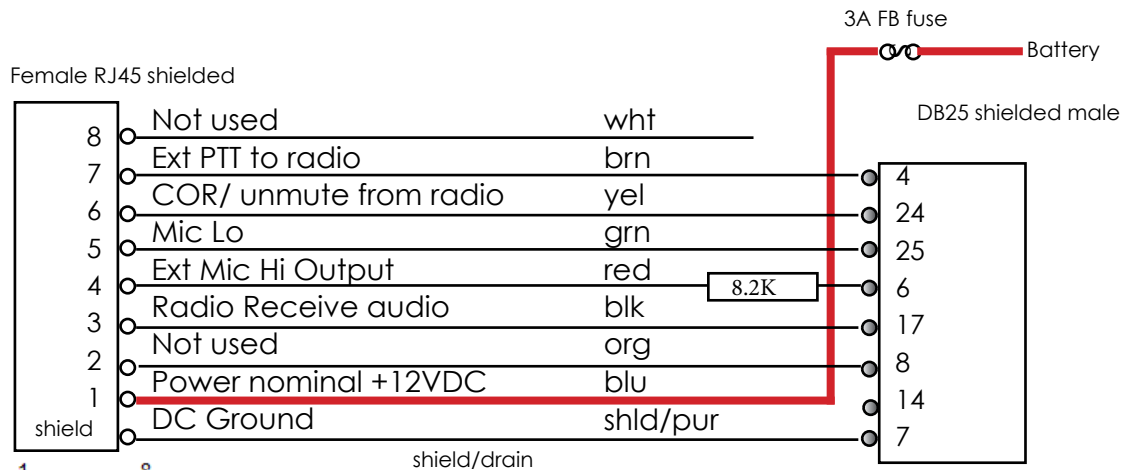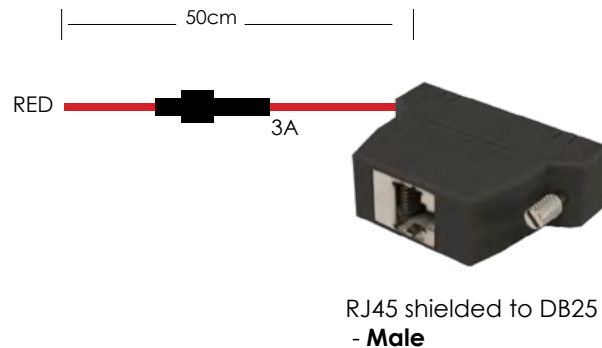
**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

\* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

Notes:
Program radio pins :
4 :  PTT
24 : Squelch indicate

Female RJ45 shielded

3A FB fuse

Battery

DB25 shielded male

| Pin | Signal | Color | DB25 |
|-----|--------|-------|------|
| 8 | Not used | wht | |
| 7 | Ext PTT to radio | brn | 4 |
| 6 | COR/ unmute from radio | yel | 24 |
| 5 | Mic Lo | grn | 25 |
| 4 | Ext Mic Hi Output | red | 6 |
| 3 | Radio Receive audio | blk | 17 |
| 2 | Not used | org | 8 |
| 1 | Power nominal +12VDC | blu | 14 |
| shield | DC Ground | shld/pur | 7 |

8.2K

shield/drain

1   8

Front View

**Receptacle**

50cm

RED

3A

RJ45 shielded to DB25
- **Male**

**X10DR**®

# XCA-K25M Modifiable cable adaptor:
## As standard suits TK690/790 etc
## Modification for other Kenwood radios
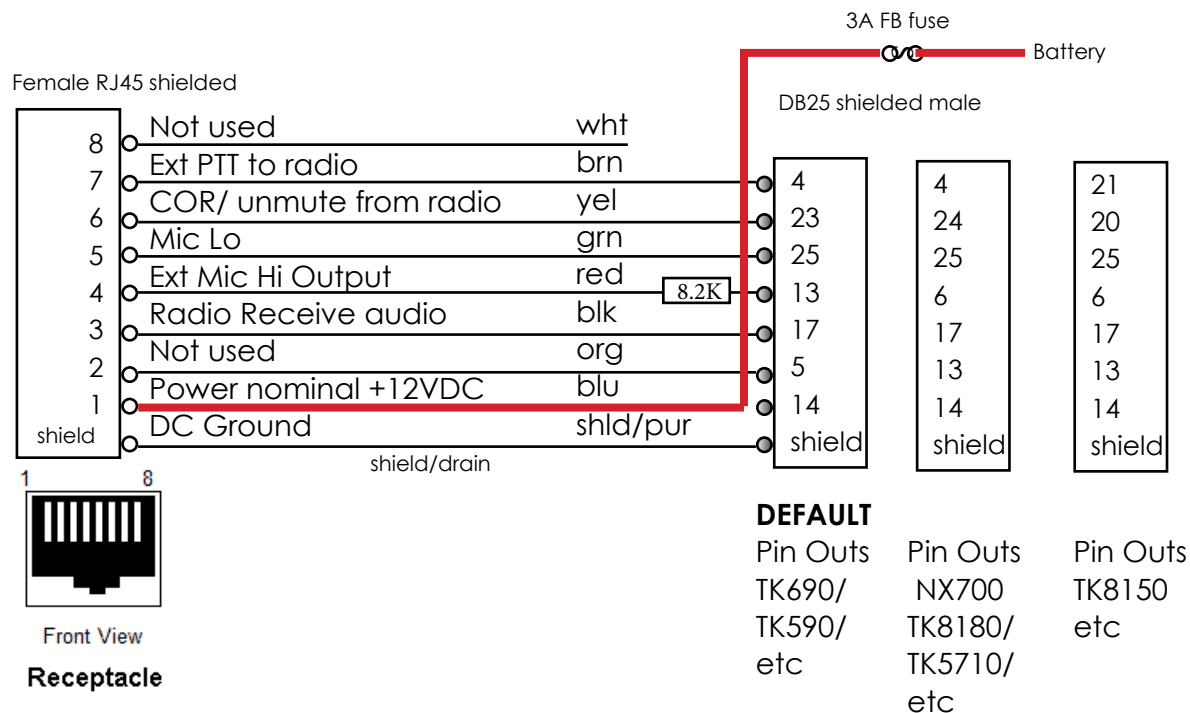
**WIRELESS PACIFIC™**

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

\* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

## Radio Programming Notes:

Set external Mic sensitivity for "low" when available in the field programmer.

NX700/TK8180 /etc Program radio I/O pins :
4 :  PTT
13 : Emergency
24 : Squelch indicate

TK8150 /etc Program radio I/O pins :
21 :  PTT
13 :  Emergency
20 :  Squelch indicate

TK690/790/etc  Program radio  I/O pins :
4 :  PTT
5 : Emergency.

Refer Kenwood TK690 service manual.
Pin 13 ships from the factory as a Data input. Swapping the 0 ohm resistor from R641 to R640 changes pin 13 to the required analog Mic Hi input.

**Female RJ45 shielded**

3A FB fuse — Battery

**DB25 shielded male**

| | | |
|---|---|---|
| 8 | Not used | wht |
| 7 | Ext PTT to radio | brn |
| 6 | COR/ unmute from radio | yel |
| 5 | Mic Lo | grn |
| 4 | Ext Mic Hi Output | red |
| 3 | Radio Receive audio | blk |
| 2 | Not used | org |
| 1 | Power nominal +12VDC | blu |
| shield | DC Ground | shld/pur |

8.2K

shield/drain

| 4 | 4 | 21 |
|---|---|---|
| 23 | 24 | 20 |
| 25 | 25 | 25 |
| 13 | 6 | 6 |
| 17 | 17 | 17 |
| 5 | 13 | 13 |
| 14 | 14 | 14 |
| shield | shield | shield |

**DEFAULT**

| Pin Outs TK690/ TK590/ etc | Pin Outs NX700 TK8180/ TK5710/ etc | Pin Outs TK8150 etc |
|---|---|---|

1    8

Front View

**Receptacle**

50cm

RED — 3A — 

**DB25 - Male-plug**

TK-690/790 etc  Radio Control Unit PCB

CONTROL UNIT (X57  B/3)
Component side view

Date:  6th June 2017     Revision: 1

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# XCA-K15M Cable Adaptor:
## for Kenwood DB15 cable NX720/TK7360/ TK-D840
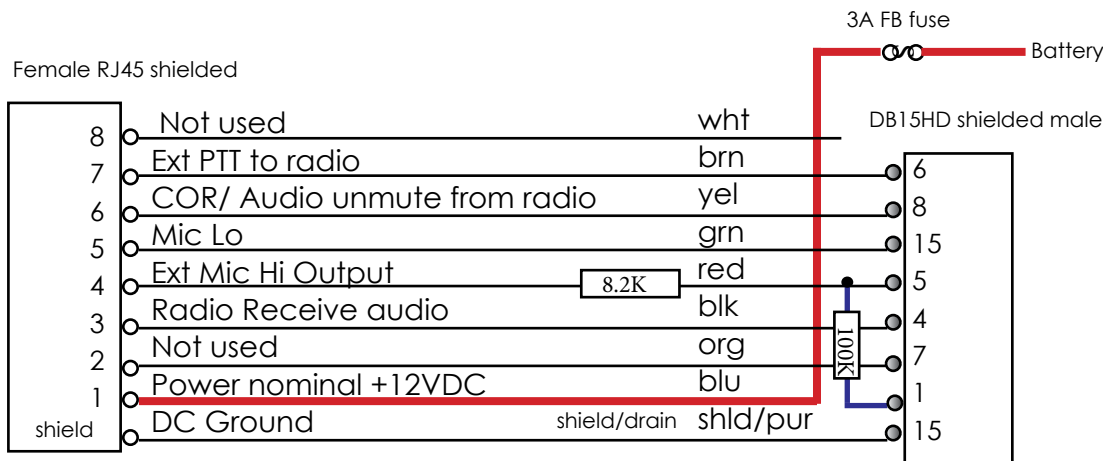
**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

 * also refer x10dr lite service manual at:
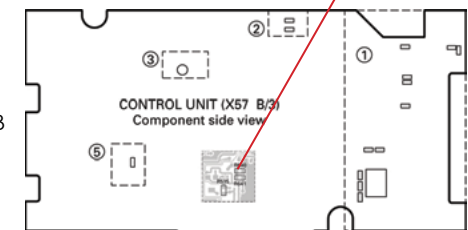
 www.x10dr.com/lite page 12.
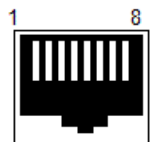
**NOTES:**
Program Radio connector
8-          I/O COR out
6 -         I/O Ext PTT In

**OTHER INSTALL REQUIREMENTS:**
NX720/ TK-D840/ TK7360 Radios
Move radio chip jumper R796 to R798 and move chip jumper R797 to R799

**Female RJ45 shielded**

**3A FB fuse** — Battery

**DB15HD shielded male**

| RJ45 | Function | Color | DB15 |
|------|----------|-------|------|
| 8 | Not used | wht | |
| 7 | Ext PTT to radio | brn | 6 |
| 6 | COR/ Audio unmute from radio | yel | 8 |
| 5 | Mic Lo | grn | 15 |
| 4 | Ext Mic Hi Output | red (8.2K) | 5 |
| 3 | Radio Receive audio | blk | 4 |
| 2 | Not used | org | 7 |
| 1 | Power nominal +12VDC | blu | 1 |
| shield | DC Ground | shield/drain shld/pur | 15 |

100K

1  8
Front View
**Receptacle**

|— 50cm —|

RED —■— 3A — 

RJ45 shielded to DB15HD
(VGA style)
- **Male**

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Date: June 6th 2017    Revision: 2

# XCA-RJK Cable Adaptor:
## for Kenwood simple low end radios
## using front RJ45 Microphone socket
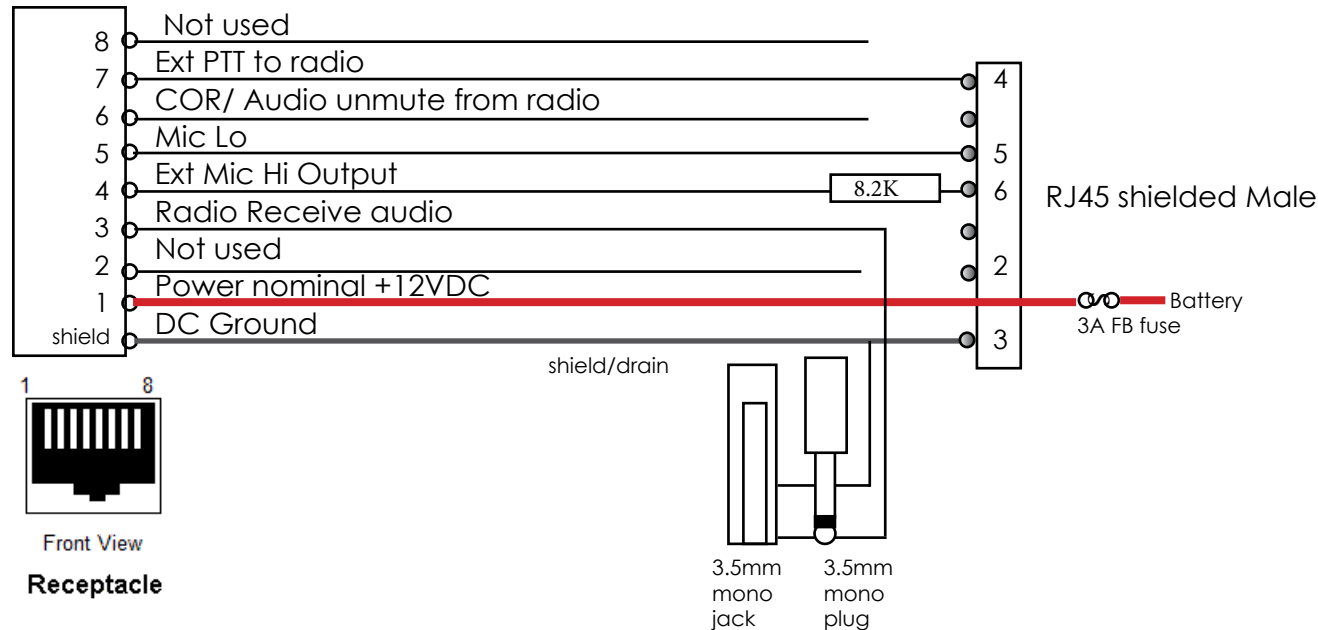
**WIRELESS PACIFIC™**

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

**Notes:**
Program X10DR for Speaker NOT muted when placed in cradle. (except if you wish to use external speaker - as below)
Uses radio receive Vox for COR detect.

**Requires External Speaker**
Plug 3.5mm plug into radio speaker socket.
Plug radio external spk into cable 3.5 jack.
Set Radio volume control for normal listening level, then adjust X10DR Rx audio level on gateway cradle for desired listening level from X10DR Spk Mic.

## RJ45 shielded Female

| Pin | Signal | | Pin |
|---|---|---|---|
| 8 | Not used | | |
| 7 | Ext PTT to radio | | 4 |
| 6 | COR/ Audio unmute from radio | | |
| 5 | Mic Lo | | 5 |
| 4 | Ext Mic Hi Output | 8.2K | 6 |
| 3 | Radio Receive audio | | |
| 2 | Not used | | 2 |
| 1 | Power nominal +12VDC | | |
| shield | DC Ground | | 3 |

RJ45 shielded Male

Battery
3A FB fuse

shield/drain

1    8
**Front View**
**Receptacle**

3.5mm mono jack    3.5mm mono plug

50cm

Female Shielded Black

**26#4P+AB OD:6.0MM**

RJ45 shielded male

3A

BATT

Spk Connection:

1   8
Top View

8   1
Front View

**Plug**

1

Date:Jan12th 2018      Revision:2

**X10DR®**

# XCA-i25B Cable Adaptor:
## for Icom IC-F9511/9521/ 5061/5062 etc

**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.
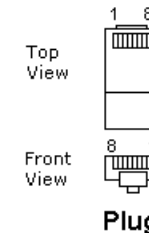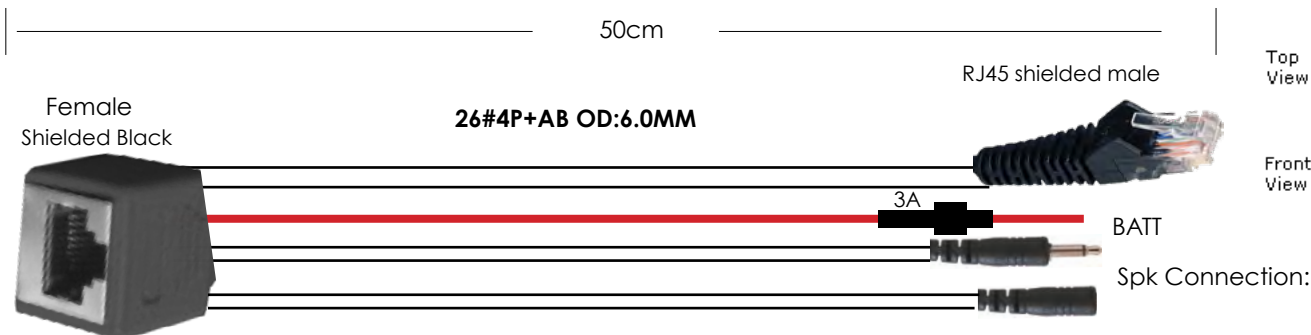
 * also refer x10dr lite service manual at:

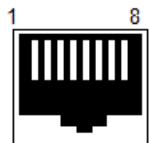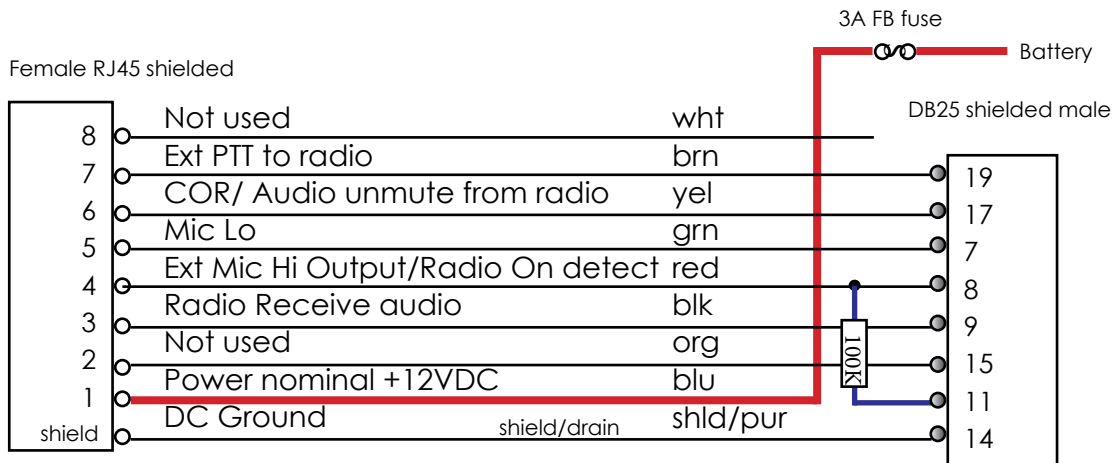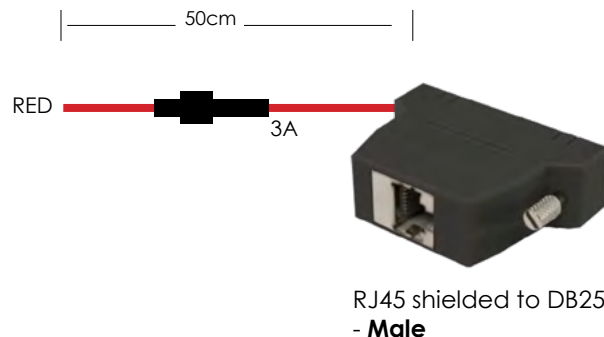 www.x10dr.com/lite page 12.

Notes:

Program Radio connector
Pin 17 : Busy
Pin  19: EPTT
COR not connected

IC-F9511/9521 models
'coffee bean" N must be  fitted on radio main board to enable Mic audio go to Pin 8.

IC-F5061/6062 models
remove coffee bean F and fit coffee bean D.

Female RJ45 shielded

3A FB fuse
Battery

DB25 shielded male

| RJ45 | Description | Color | DB25 |
|---|---|---|---|
| 8 | Not used | wht | |
| 7 | Ext PTT to radio | brn | 19 |
| 6 | COR/ Audio unmute from radio | yel | 17 |
| 5 | Mic Lo | grn | 7 |
| 4 | Ext Mic Hi Output/Radio On detect | red | 8 |
| 3 | Radio Receive audio | blk | 9 |
| 2 | Not used | org | 15 |
| 1 | Power nominal +12VDC | blu | 11 |
| shield | DC Ground       shield/drain | shld/pur | 14 |

100K

1    8
Front View
**Receptacle**

50cm

RED
3A

RJ45 shielded to DB25
- **Male**

X10DR®

Date: June 6th 2017   Revision: 2

# XCA-i25M Modifiable cable adaptor:
default config for IC-F6400
(Move wire from RJ45-3 to DB25 Pin 9 for IC-F9511/F6061 etc)

**WIRELESS PACIFIC**™

3A FB fuse

Battery

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

* also refer x10dr lite service manual at:
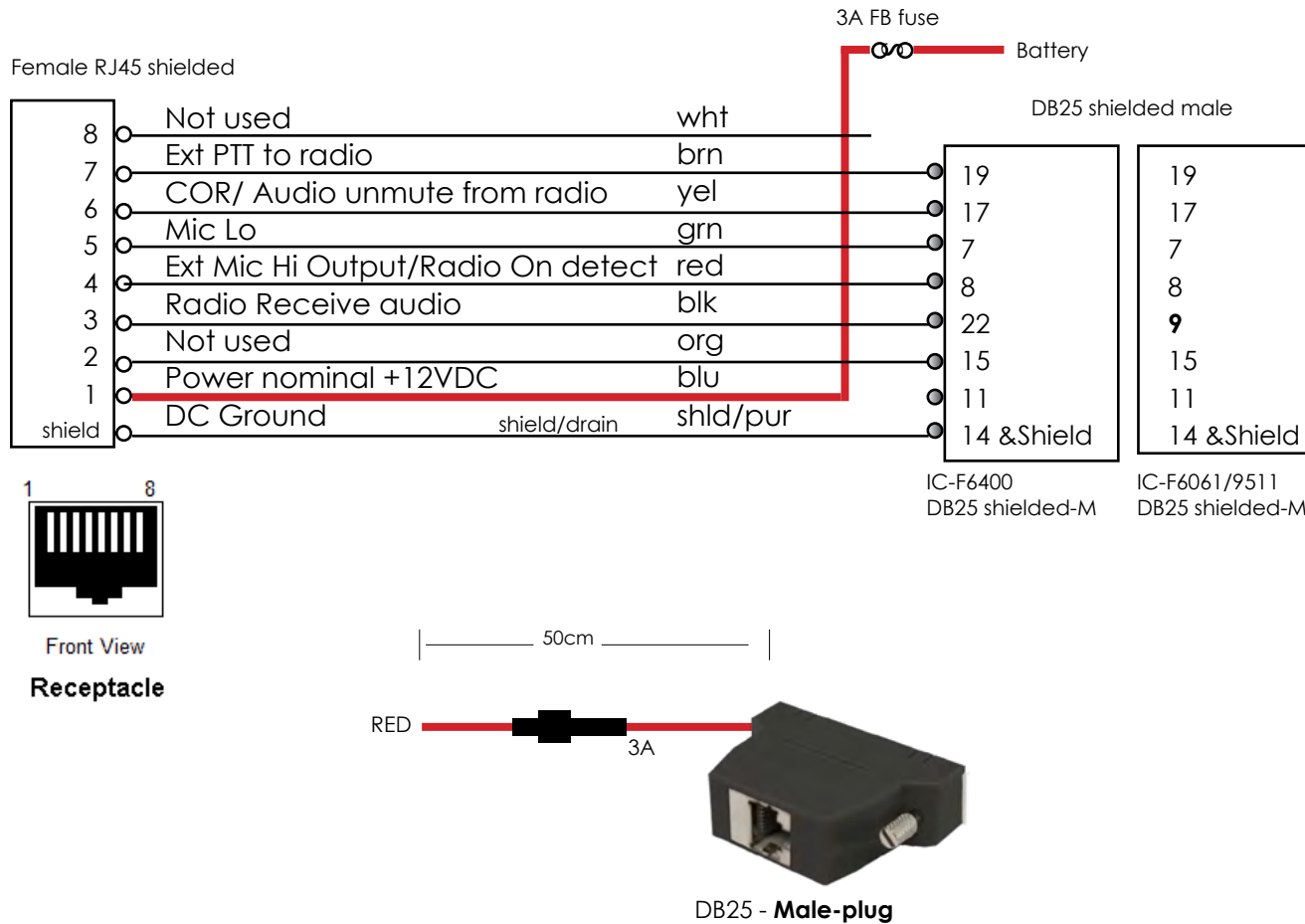
www.x10dr.com/lite page 12.

Female RJ45 shielded

DB25 shielded male

| RJ45 | Function | Color | IC-F6400 DB25 | IC-F6061/9511 DB25 |
|------|----------|-------|------|------|
| 8 | Not used | wht | | |
| 7 | Ext PTT to radio | brn | 19 | 19 |
| 6 | COR/ Audio unmute from radio | yel | 17 | 17 |
| 5 | Mic Lo | grn | 7 | 7 |
| 4 | Ext Mic Hi Output/Radio On detect | red | 8 | 8 |
| 3 | Radio Receive audio | blk | 22 | **9** |
| 2 | Not used | org | 15 | 15 |
| 1 | Power nominal +12VDC | blu | 11 | 11 |
| shield | DC Ground            shield/drain | shld/pur | 14 &Shield | 14 &Shield |

IC-F6400
DB25 shielded-M

IC-F6061/9511
DB25 shielded-M

Notes:
Program F6400 Radio connector
Pin 17 : Busy
Pin 19 : EPTT
(Busy=Radio speaker unmute-active grd )
IC-F9511/9521 models
'coffee bean" N must be fitted on radio main brd to enable Mic audio to connect to Pin 8.

IC-F5061/6062 models
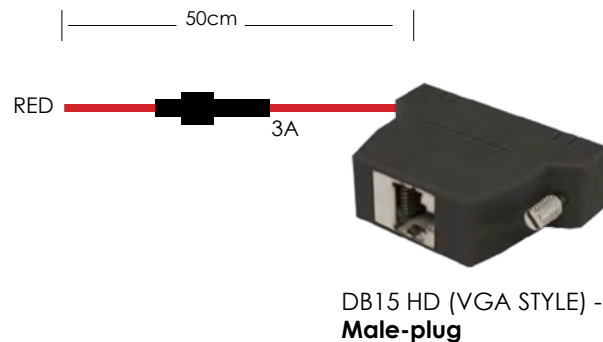remove coffee bean F and fit coffee bean D.

Refer top service manual if COR/Busy needs to be moved for IC9511/5061/6062

1        8

Front View
**Receptacle**

|————— 50cm —————|

RED

3A

DB25 - **Male-plug**

**X10DR**®

Date: June 6th 2017   Revision: 2

# XCA-i15M Cable Adaptor:
## for Icom OPC-1939 adaptor cable
## for F5011/F6011/ F5021/F6021/F5121D
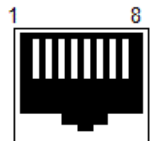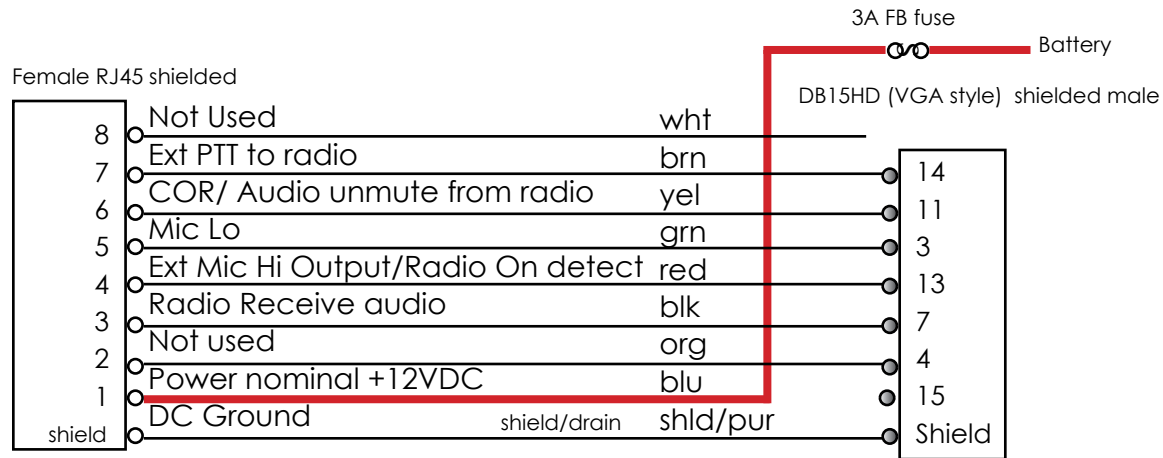
**WIRELESS PACIFIC** ™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

 * also refer x10dr lite service manual at:

 www.x10dr.com/lite page 12.

Notes:
Program radio pins :
11 - COR out
7 - AF Audio out
14 - Ext PTT

3A FB fuse

Battery

**Female RJ45 shielded**

**DB15HD (VGA style)  shielded male**

| Pin | Signal | Wire | | DB15 Pin |
|---|---|---|---|---|
| 8 | Not Used | wht | | |
| 7 | Ext PTT to radio | brn | | 14 |
| 6 | COR/ Audio unmute from radio | yel | | 11 |
| 5 | Mic Lo | grn | | 3 |
| 4 | Ext Mic Hi Output/Radio On detect | red | | 13 |
| 3 | Radio Receive audio | blk | | 7 |
| 2 | Not used | org | | 4 |
| 1 | Power nominal +12VDC | blu | | 15 |
| shield | DC Ground | shield/drain  shld/pur | | Shield |

1    8

Front View
**Receptacle**

50cm

RED

3A

DB15 HD (VGA STYLE) -
**Male-plug**

Date: June 6th 2017   Revision: 2

# XCA-V25M Cable Adaptor:
## for Vertex VX5500 etc High tier mobiles

**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

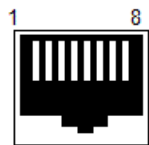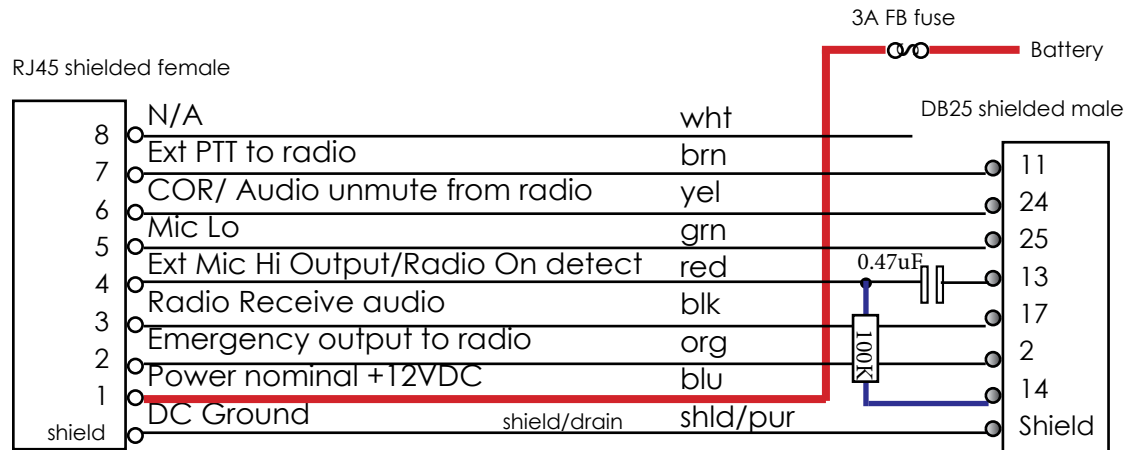* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

3A FB fuse

Battery

RJ45 shielded female

DB25 shielded male

| RJ45 pin | Signal | Colour | DB25 pin |
|---|---|---|---|
| 8 | N/A | wht | |
| 7 | Ext PTT to radio | brn | 11 |
| 6 | COR/ Audio unmute from radio | yel | 24 |
| 5 | Mic Lo | grn | 25 |
| 4 | Ext Mic Hi Output/Radio On detect | red | 13 |
| 3 | Radio Receive audio | blk | 17 |
| 2 | Emergency output to radio | org | 2 |
| 1 | Power nominal +12VDC | blu | 14 |
| shield | DC Ground    shield/drain | shld/pur | Shield |

0.47uF

100K

1    8

Front View

**Receptacle**

50cm

RED

3A

DB25 - **Male-plug**

# XCA-T15M Cable Adaptor:
## for TM8000/9000 series etc

**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

 * also refer x10dr lite service manual at:
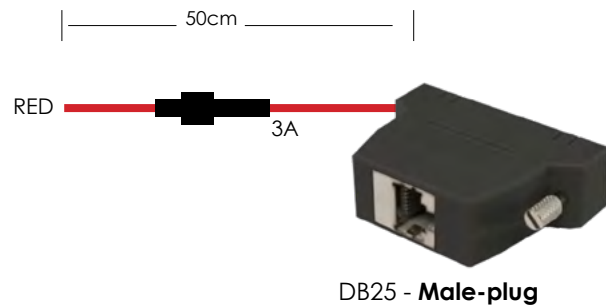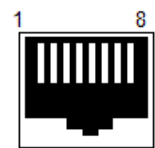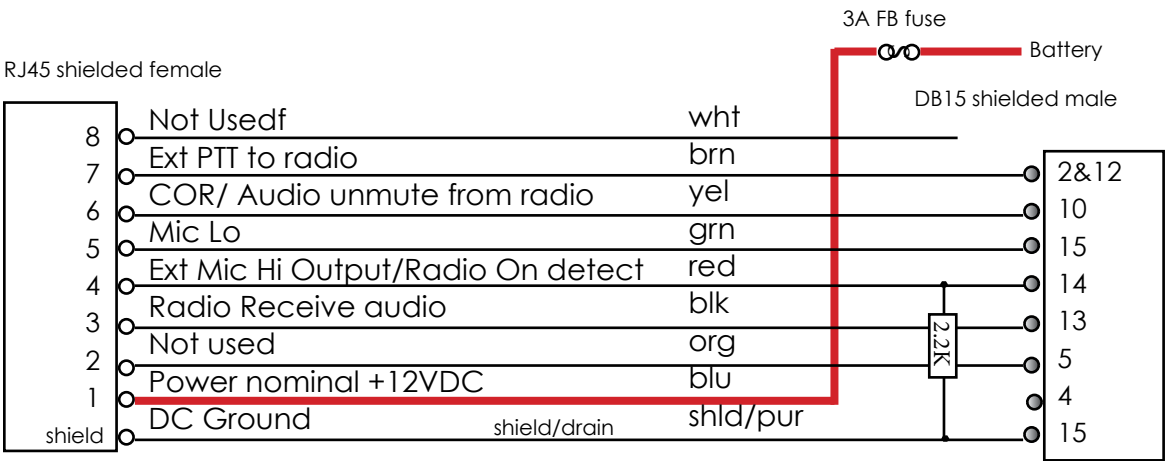
 www.x10dr.com/lite page 12.

Notes:
Program Radio connector
2-       Send Mic to radio spk*
4-
5 -
10 -     Busy out
12 -     PTT in
13 -     Audio tap out
14 -     Audio Tap In

* when radio permits

3A FB fuse

Battery

RJ45 shielded female

DB15 shielded male

| RJ45 | Signal | Color | DB15 |
|------|--------|-------|------|
| 8 | Not Usedf | wht | |
| 7 | Ext PTT to radio | brn | 2&12 |
| 6 | COR/ Audio unmute from radio | yel | 10 |
| 5 | Mic Lo | grn | 15 |
| 4 | Ext Mic Hi Output/Radio On detect | red | 14 |
| 3 | Radio Receive audio | blk | 13 |
| 2 | Not used | org | 5 |
| 1 | Power nominal +12VDC | blu | 4 |
| shield | DC Ground   shield/drain | shld/pur | 15 |

2.2K

1    8

Front View

**Receptacle**

50cm

RED

3A

DB44 - **Male-plug**

X10DR®

Date:                    Revision:

# XCA-H26M Interface cable:
## for Hytera MD68x Tetra & 78x DMR mobiles

**WIRELESS PACIFIC™**

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

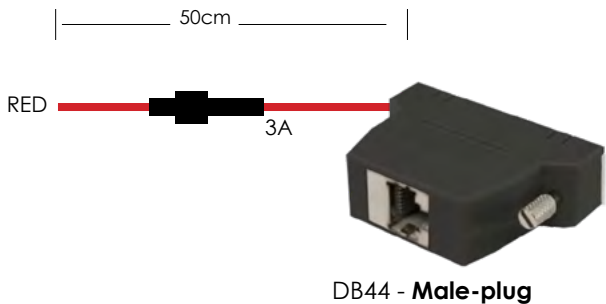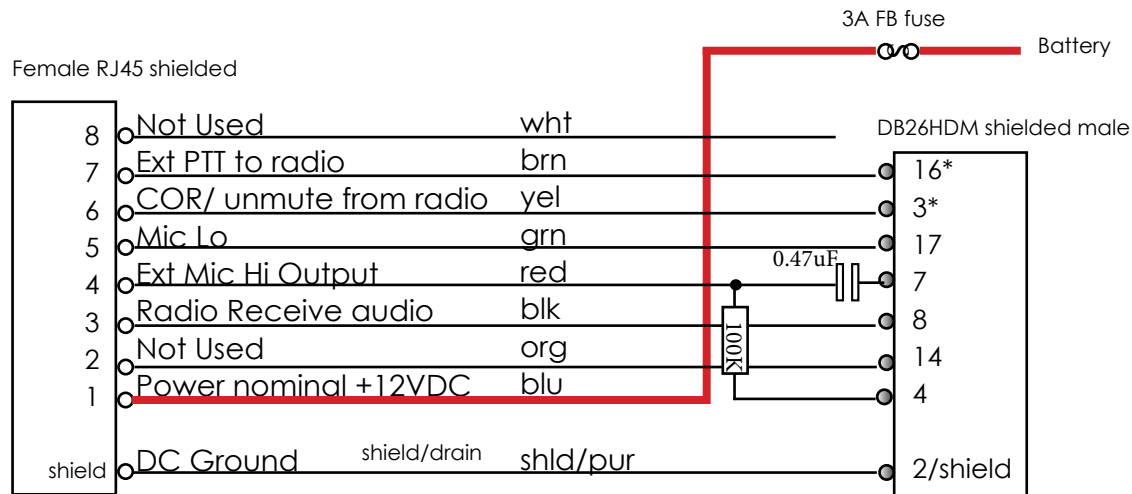Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

\* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

3A FB fuse

Battery

Female RJ45 shielded

DB26HDM shielded male

| Pin | Signal | Wire | | DB26 Pin |
|---|---|---|---|---|
| 8 | Not Used | wht | | |
| 7 | Ext PTT to radio | brn | | 16* |
| 6 | COR/ unmute from radio | yel | | 3* |
| 5 | Mic Lo | grn | | 17 |
| 4 | Ext Mic Hi Output | red | | 7 |
| 3 | Radio Receive audio | blk | | 8 |
| 2 | Not Used | org | | 14 |
| 1 | Power nominal +12VDC | blu | | 4 |
| shield | DC Ground | shld/pur (shield/drain) | | 2/shield |

0.47uF

100K

1  8

**Front View**

**Receptacle**

50cm

RED

3A

DB26 HDM - **Male-plug**

Date: Oct 12th 2017   Revision:2

X10DR®

# XCA-JM Interface cable:
## for EFJohnson Viking VM900
## Male DB25 for EFJ pigtail UDDI/PVP
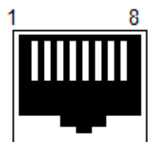
**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.
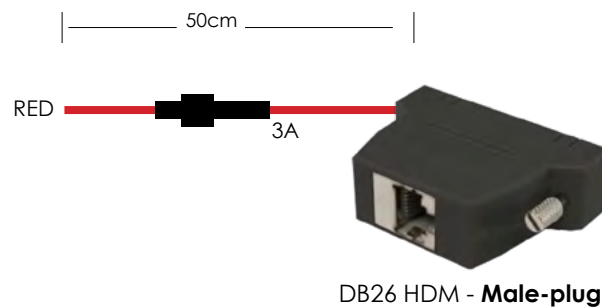
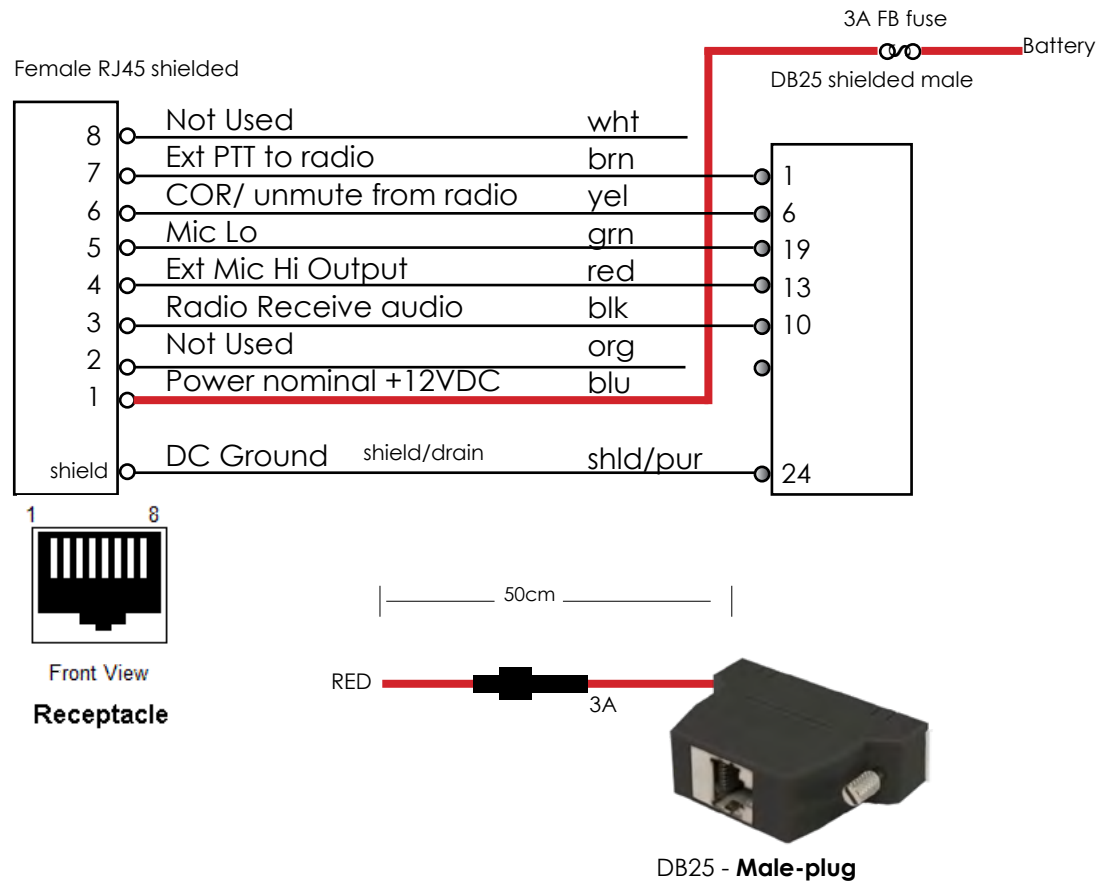* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

3A FB fuse

Battery

Female RJ45 shielded

DB25 shielded male

| Pin | Signal | Color | | DB25 Pin |
|-----|--------|-------|--|----------|
| 8 | Not Used | wht | | |
| 7 | Ext PTT to radio | brn | | 1 |
| 6 | COR/ unmute from radio | yel | | 6 |
| 5 | Mic Lo | grn | | 19 |
| 4 | Ext Mic Hi Output | red | | 13 |
| 3 | Radio Receive audio | blk | | 10 |
| 2 | Not Used | org | | |
| 1 | Power nominal +12VDC | blu | | |
| shield | DC Ground    shield/drain | shld/pur | | 24 |

1   8

Front View

**Receptacle**

50cm

RED

3A

DB25 - **Male-plug**

Company Confidential Proprietary

X10DR®

# XCA-R25M Interface cable:
## for Relm/Bendix King P25 mobiles
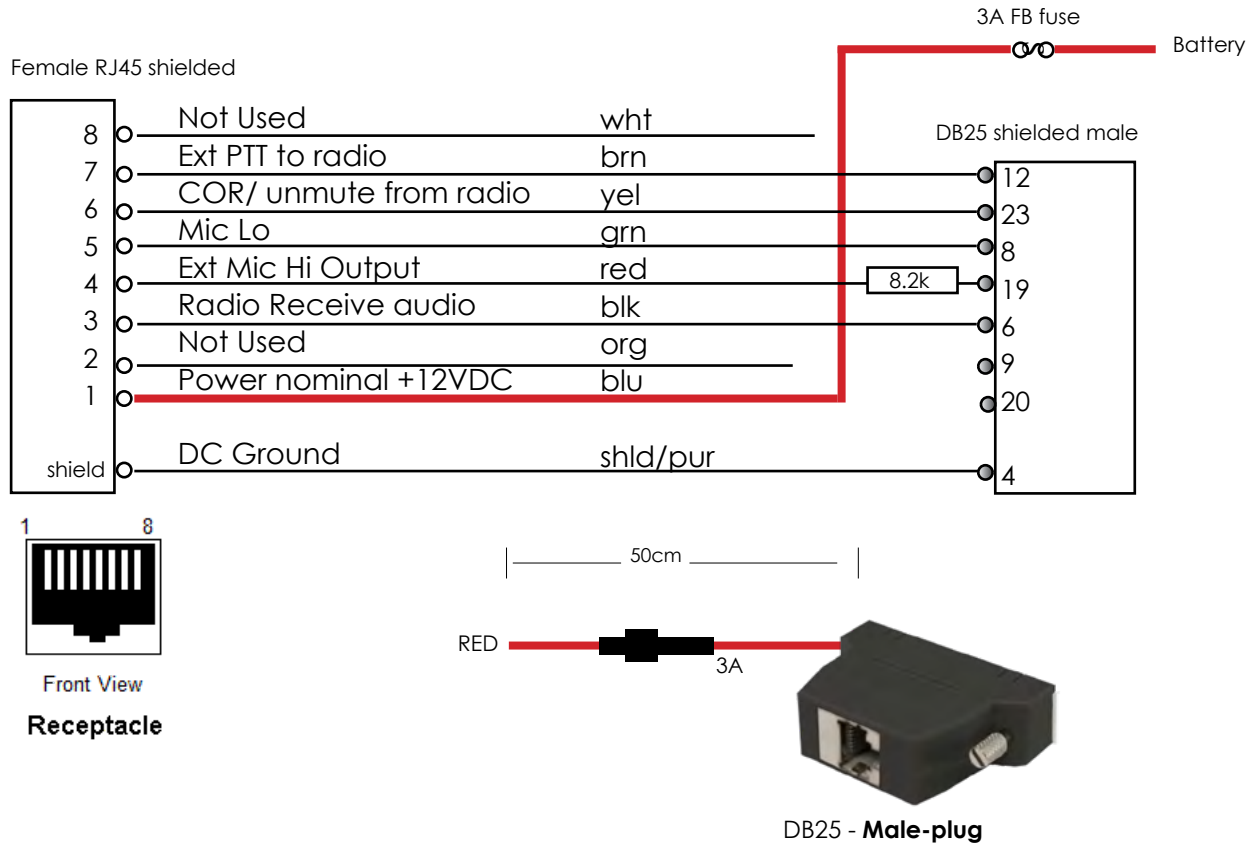
**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.
Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

\* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

Notes:
Program radio Pin 23 for "cor".(radio speaker unmute)

3A FB fuse

Battery

Female RJ45 shielded

DB25 shielded male

| RJ45 Pin | Function | Color | DB25 Pin |
|---|---|---|---|
| 8 | Not Used | wht | |
| 7 | Ext PTT to radio | brn | 12 |
| 6 | COR/ unmute from radio | yel | 23 |
| 5 | Mic Lo | grn | 8 |
| 4 | Ext Mic Hi Output | red | 19 (8.2k) |
| 3 | Radio Receive audio | blk | 6 |
| 2 | Not Used | org | 9 |
| 1 | Power nominal +12VDC | blu | 20 |
| shield | DC Ground | shld/pur | 4 |

1    8

Front View

**Receptacle**

50cm

RED

3A

DB25 - **Male-plug**

**X10DR**®

Company Confidential Proprietary

Date:  July 25th 2017   Revision: 2

# XCA-R15M Interface cable:
## for Relm/Bendix King P25 mobiles

**WIRELESS PACIFIC**™

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

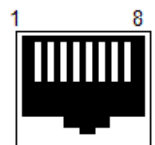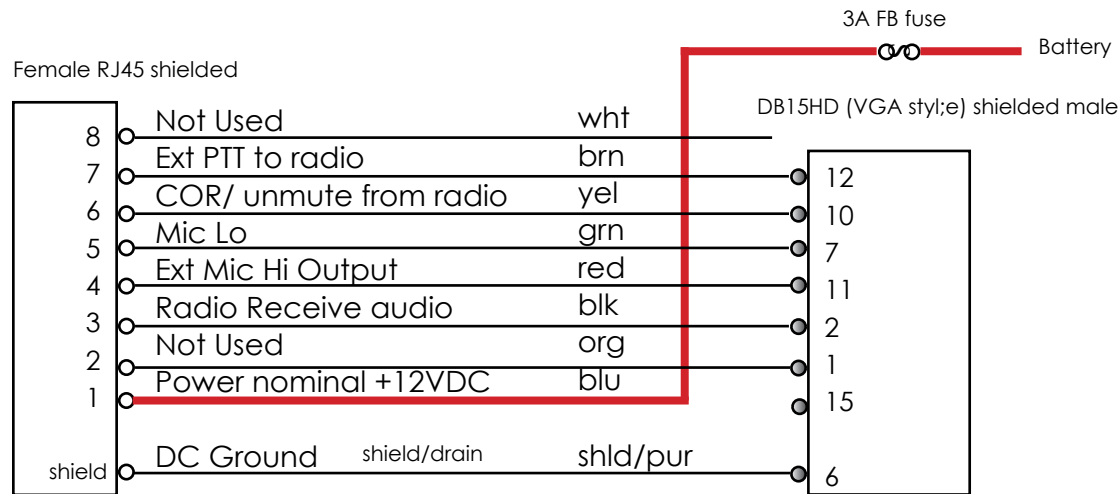Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

\* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

Female RJ45 shielded

3A FB fuse

Battery

DB15HD (VGA styl;e) shielded male

| Pin | Signal | Wire | | Pin |
|---|---|---|---|---|
| 8 | Not Used | wht | | |
| 7 | Ext PTT to radio | brn | | 12 |
| 6 | COR/ unmute from radio | yel | | 10 |
| 5 | Mic Lo | grn | | 7 |
| 4 | Ext Mic Hi Output | red | | 11 |
| 3 | Radio Receive audio | blk | | 2 |
| 2 | Not Used | org | | 1 |
| 1 | Power nominal +12VDC | blu | | 15 |
| shield | DC Ground | shield/drain | shld/pur | 6 |

1    8

Front View

**Receptacle**

50cm

RED

3A

DB-15-HD (VGA style)-M
D-SUB CONNECTOR

**X10DR**®

Company Confidential Proprietary

Date: May12th 2017   Revision: 1

# XCA-U25M  DB25 Male
## Unterminated Interface Adaptor:

**WIRELESS PACIFIC**™

Female RJ45
shielded

Male DB25

| shield | DC Ground | shield/drain | shld/pur | Shield |
| 8 | Not Used | | wht | |
| 7 | Ext PTT to radio | | brn | |
| 6 | COR/ Audio unmute from radio | | yel | |
| 5 | Mic Lo | | grn | |
| 4 | Ext Mic Hi Output | | red | |
| 3 | Radio Receive audio | | blk | |
| 2 | Not Used | | org | |
| 1 | Power nominal +12VDC | | blu | |

unterminated

Battery

3A FB fuse

1        8

Front View

**Receptacle**

50cm

RED

3A

DB25M -RJ45F

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

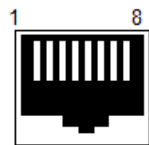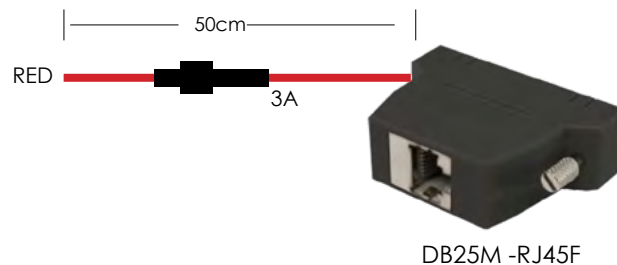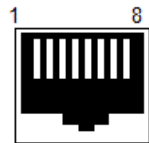* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

X10DR®

Date:   20th Dec 2017   Revision: O

# XCA-U15M  DB15 Male
## Unterminated Interface Adaptor:

**WIRELESS PACIFIC**™

Female RJ45
shielded

Male DB15

| shield | o— | DC Ground | shield/drain | shld/pur | Shield |
| 8 | o— | Not Used | | wht | |
| 7 | o— | Ext PTT to radio | | brn | |
| 6 | o— | COR/ Audio unmute from radio | | yel | |
| 5 | o— | Mic Lo | | grn | |
| 4 | o— | Ext Mic Hi Output | | red | |
| 3 | o— | Radio Receive audio | | blk | |
| 2 | o— | Not Used | | org | |
| 1 | o— | Power nominal +12VDC | | blu | |

unterminated

Battery

3A FB fuse

1        8

Front View

**Receptacle**

50cm

RED

3A

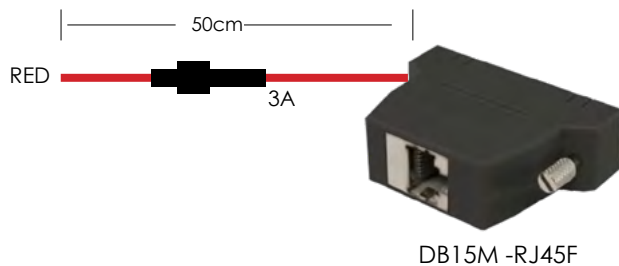DB15M -RJ45F

Always check the radio service manual and radio programming guide details to ensure the right connections are provided on the designated pins*.

Note: some radios require standard jumpers to be fitted to allow External Mic Audio to be enabled.

* also refer x10dr lite service manual at:

www.x10dr.com/lite page 12.

**X10DR**®