# PAMS Technical Documentation
# NSE/K/B/W–1/3 Series Transceivers

# Service Tools

Original 03/98

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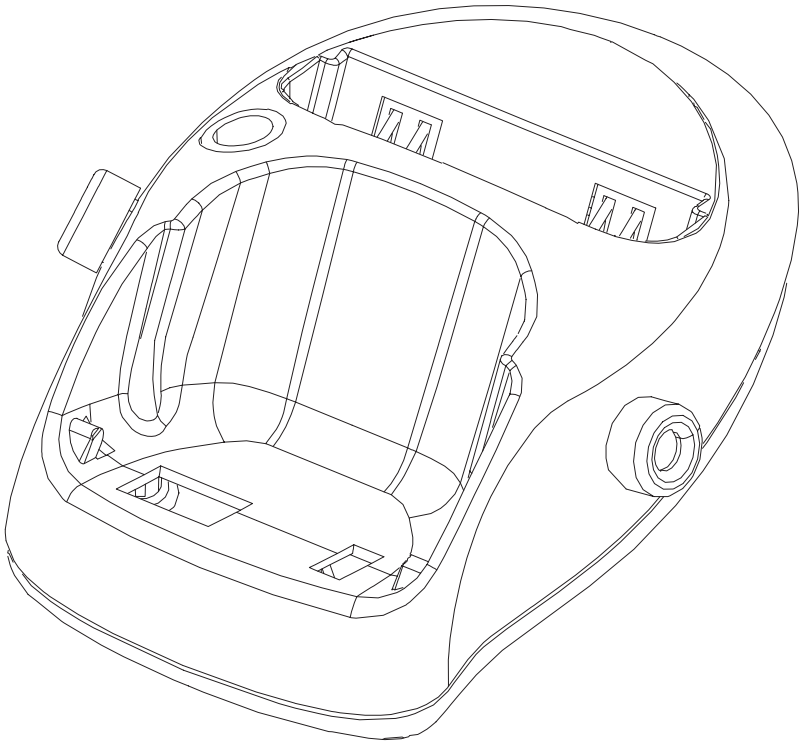
# Battery Adapter BDC–3

The Battery Adapter BDC–3 is used along with an external battery capacity meter to check battery capacity.
Note that Li–ion batteries have an internal protection circuit to prevent deep discharge.

## Product Code

Battery Adapter BDC–3: 0770083

## View of BDC–3



# Service Battery BBD–3

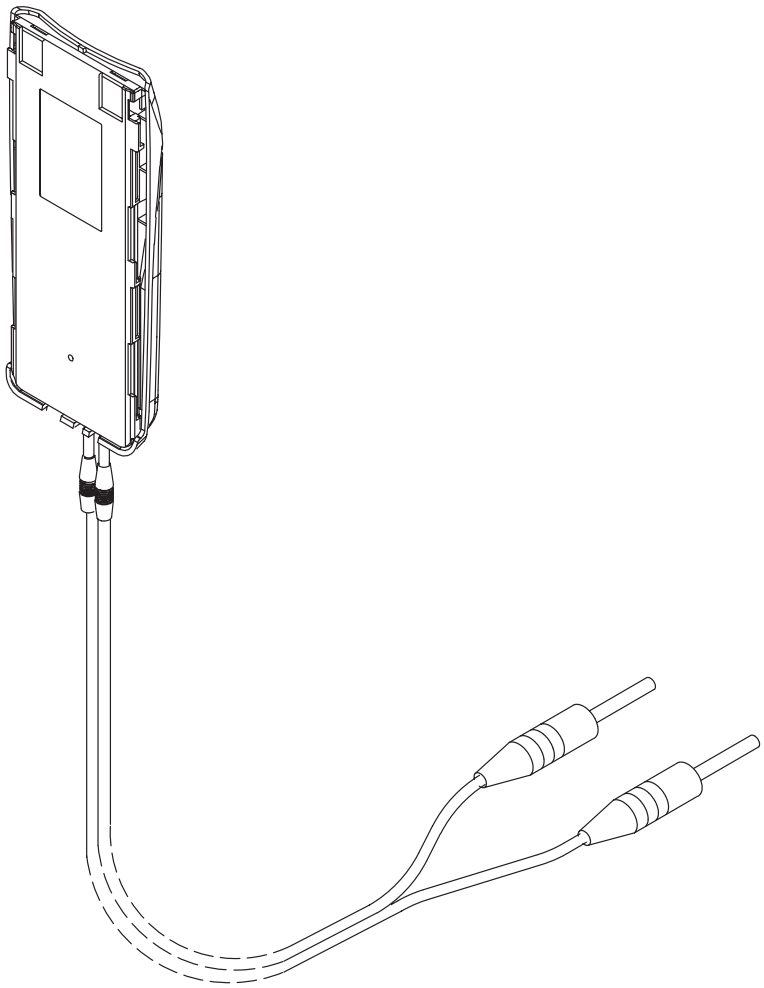
The Service Battery BBD–3 is used in place of the phone's normal battery during service, to supply a controlled operating voltage to the phone for current and charger calibration, and is also required when flashing the phone.

Note that the cable SCB–3 (0730114) is also required for charger calibration.

## Product Code

Service Battery BBD–3: 0775071

## View of BBD–3



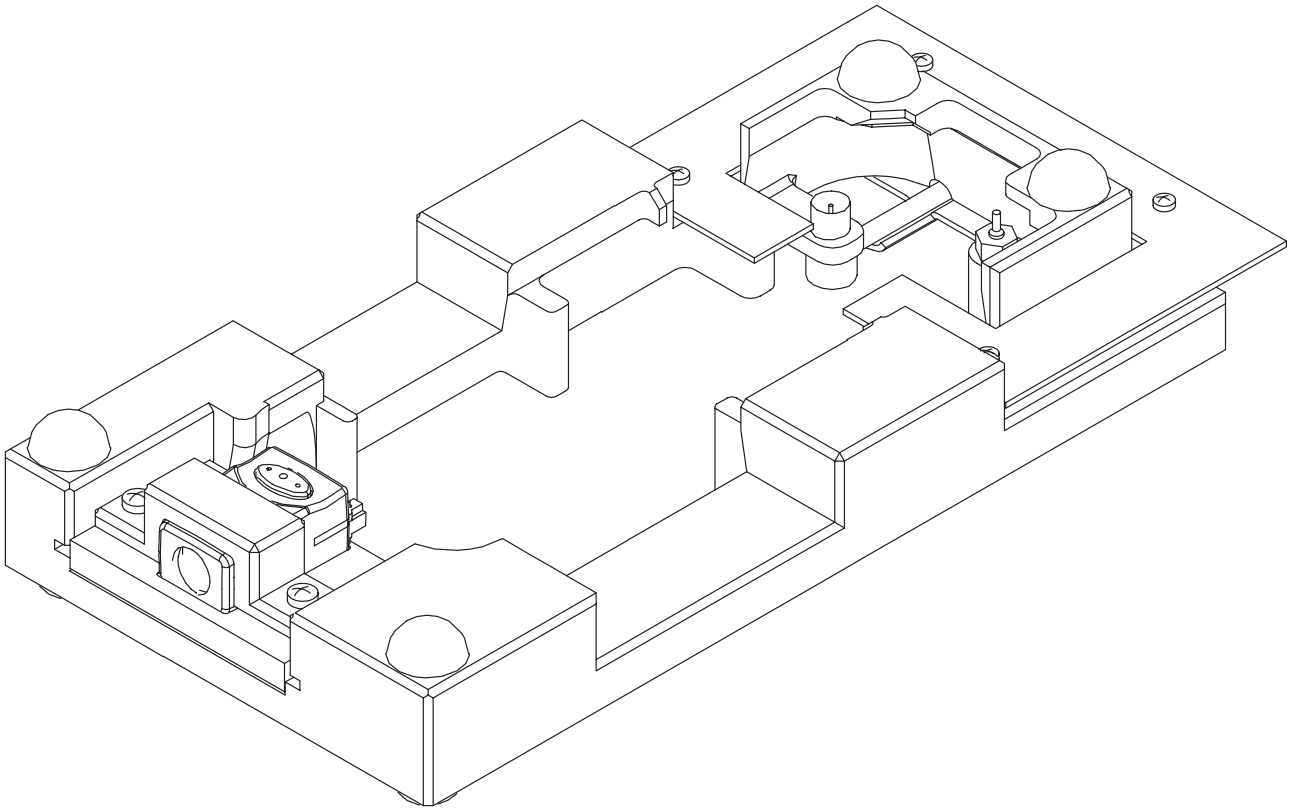
# Light Module Jig JBT–1

The Light Module Jig JBT–1 is used for component level repair of the system/RF module. *****

**Product Code**

Light Module Jig JBT–1: 0770109

**View of JBT–1**



*****) Connect the External antenna cable XRC–1B, service Cable SCH–5, and the DC Cable PCS–1 to the JBT–1 jig.
The service cable SCH–5 can be replaced by the DAU–9P cable.

Note: The nominal supply voltage for JBT–1 is +3.6 V.
The supply voltage must not exceed +4.0 V.

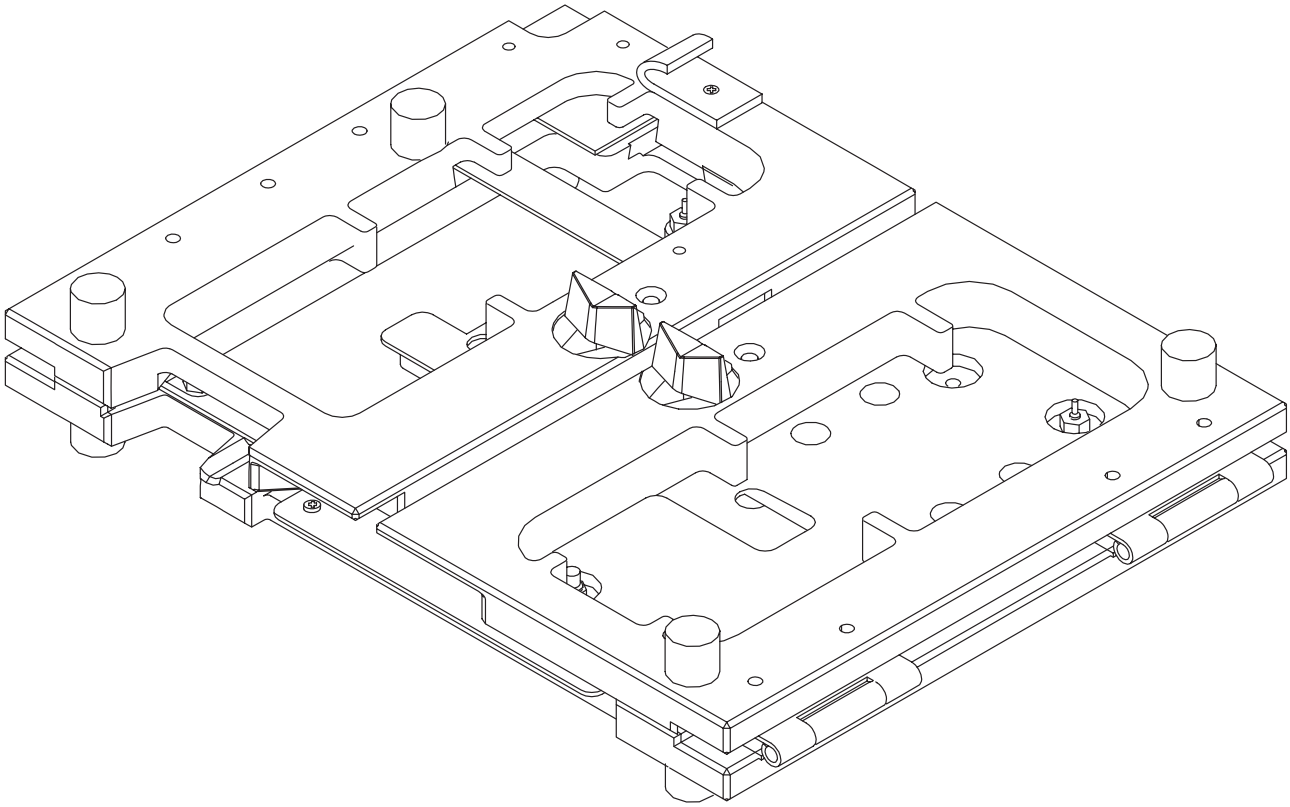
## Module Jig JBS–19

The Module Jig JBS–19 is used for repair of both system/RF and UIF modules. *****

### Product Code

Light Module Jig JBS–19: 0770098

### View of JBS–19



*****) Connect the External antenna cable XRC–1B, service Cable SCH–5, and the DC Cable PCS–1 to the JBS–19 jig.
The service cable SCH–5 can be replaced by the DAU–9P cable.

Note: The nominal supply voltage for JBS–19 is +3.6 V.
The supply voltage must not exceed +4.0 V.

# Flash Loading Adapter FLA–5 (Sales Pack)

The Flash Loading Adapter FLA–5 is used with the Service Battery BBD–3 and Service Cable SCH–5. Power is supplied to FLA–5 from the Flash Security Box TDF–4 via the DC cable PCC–1, (The PCC–1 cable can be replaced with a Travel Charger ACH–6), and is connected to the Flash Prommer FPS–4S with the cable AXS–5.

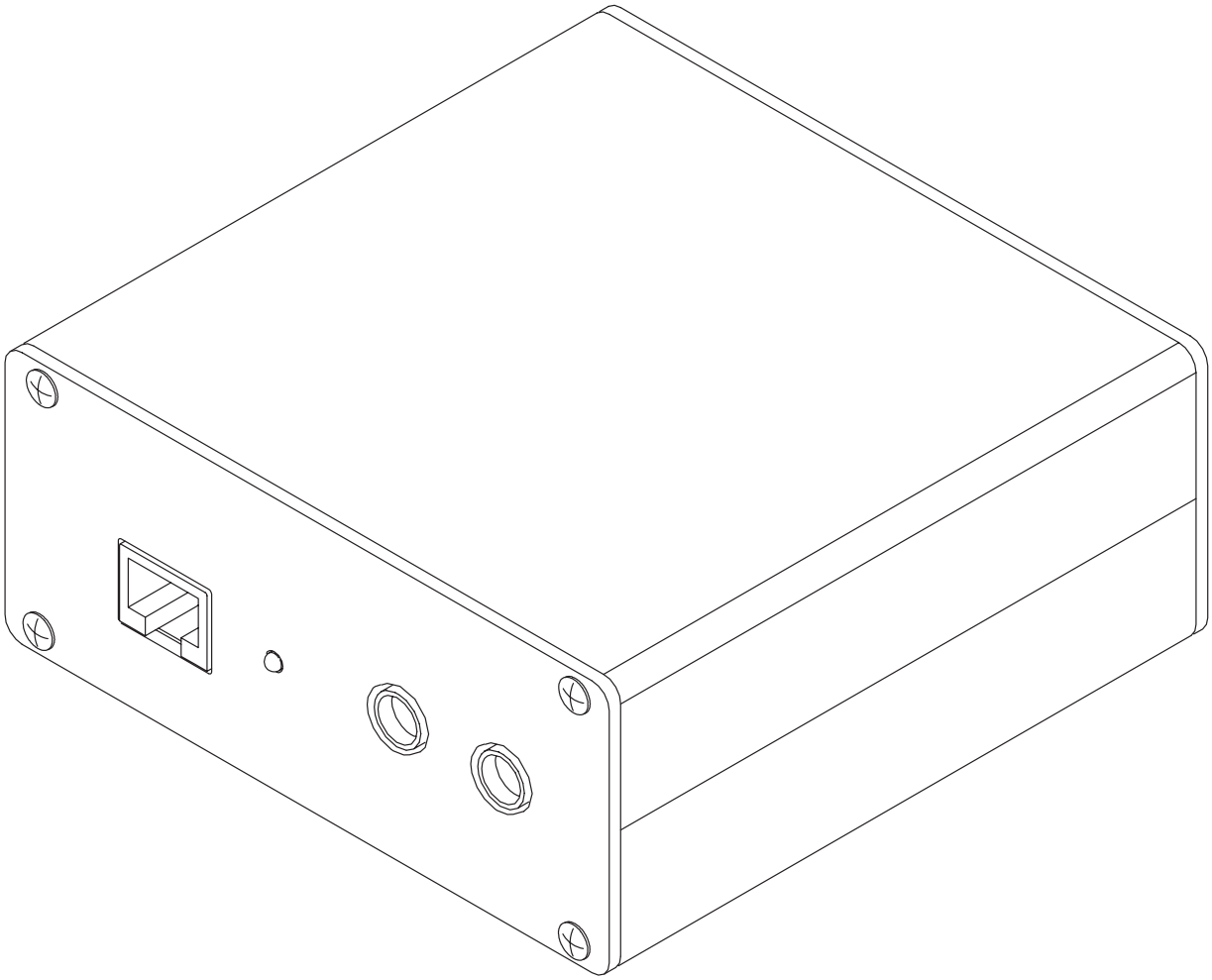
The sales pack includes:

| | |
|---|---|
| – Flash Loader Adapter FLA–5 | 0770085 |
| – Service cable SCH–5 | 0730098 |
| – D15 – D15 Cable AXS–5 | 0730091 |
| – Installation software for FPS–4 | 8400041 |

**Sales package code**

Flash Loading Adapter FLA–5: 0080178

**View of FLA–5**



# Flash Prommer FPS–4S (Sales Pack)

The Flash Prommer FPS–4S is used to update the main software of the phone. Updating is done by first loading the new MCU software from the PC to the flash prommer, and then loading the new SW from the prommer to the phone. When updating more than one phone in succession, the MCU software only needs to be loaded to the prommer once.

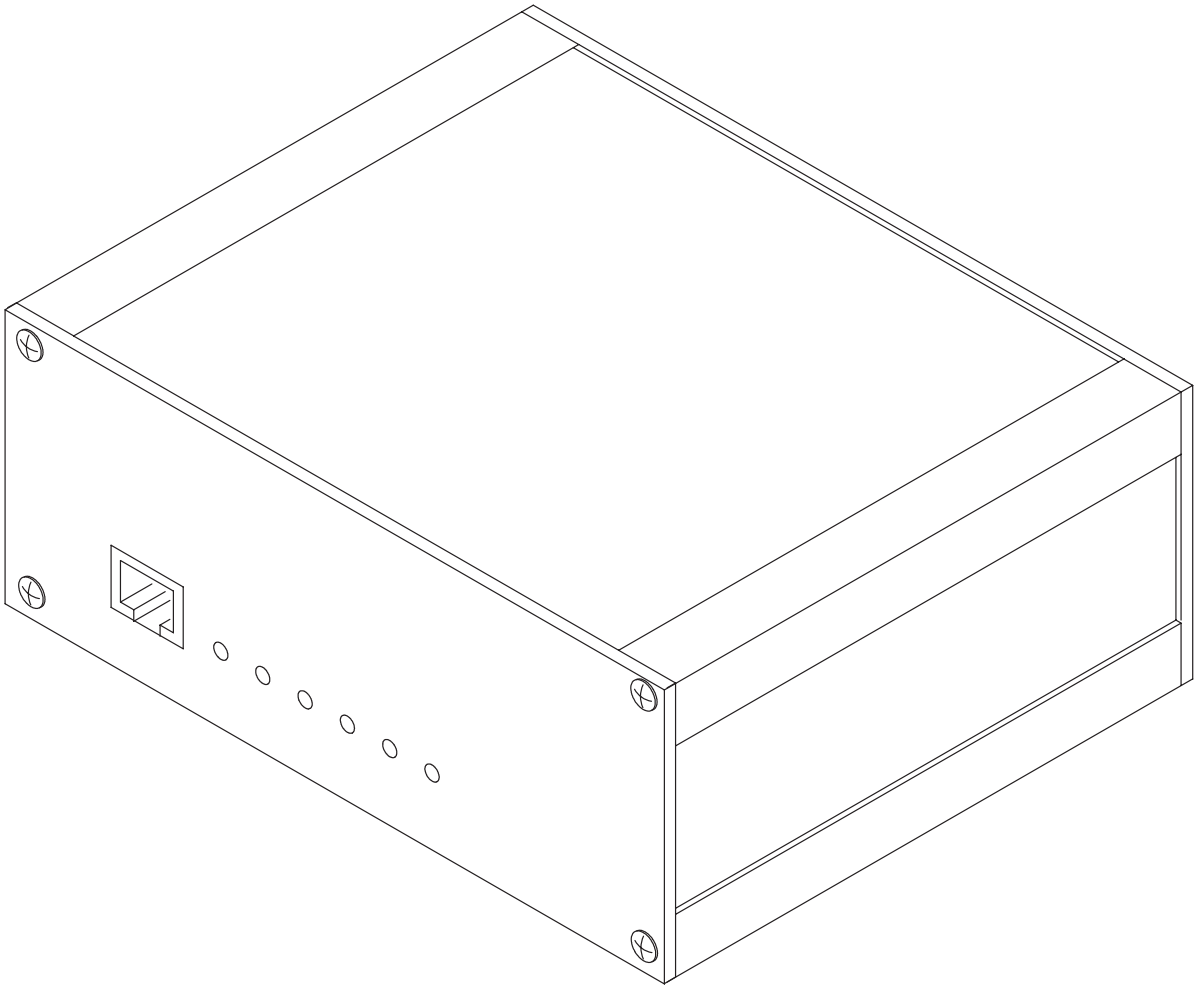
The sales pack includes:

| | |
|---|---|
| – Flash Prommer FPS–4 | 0750090 |
| – Charger ACL–3E | 0680015 |
| – Printer cable | 0730029 |
| – D9 – D9 Cable AXS–4 | 0730090 |
| – Installation software for FPS–4 | 8400041 |

## Sales package code

| | |
|---|---|
| Flash Prommer FPS–4: | 0085095 |

## View of FPS–4



## Security Box TDF–4

The Security Box TDF–4 is required for updating MCU software, and infra red testing.

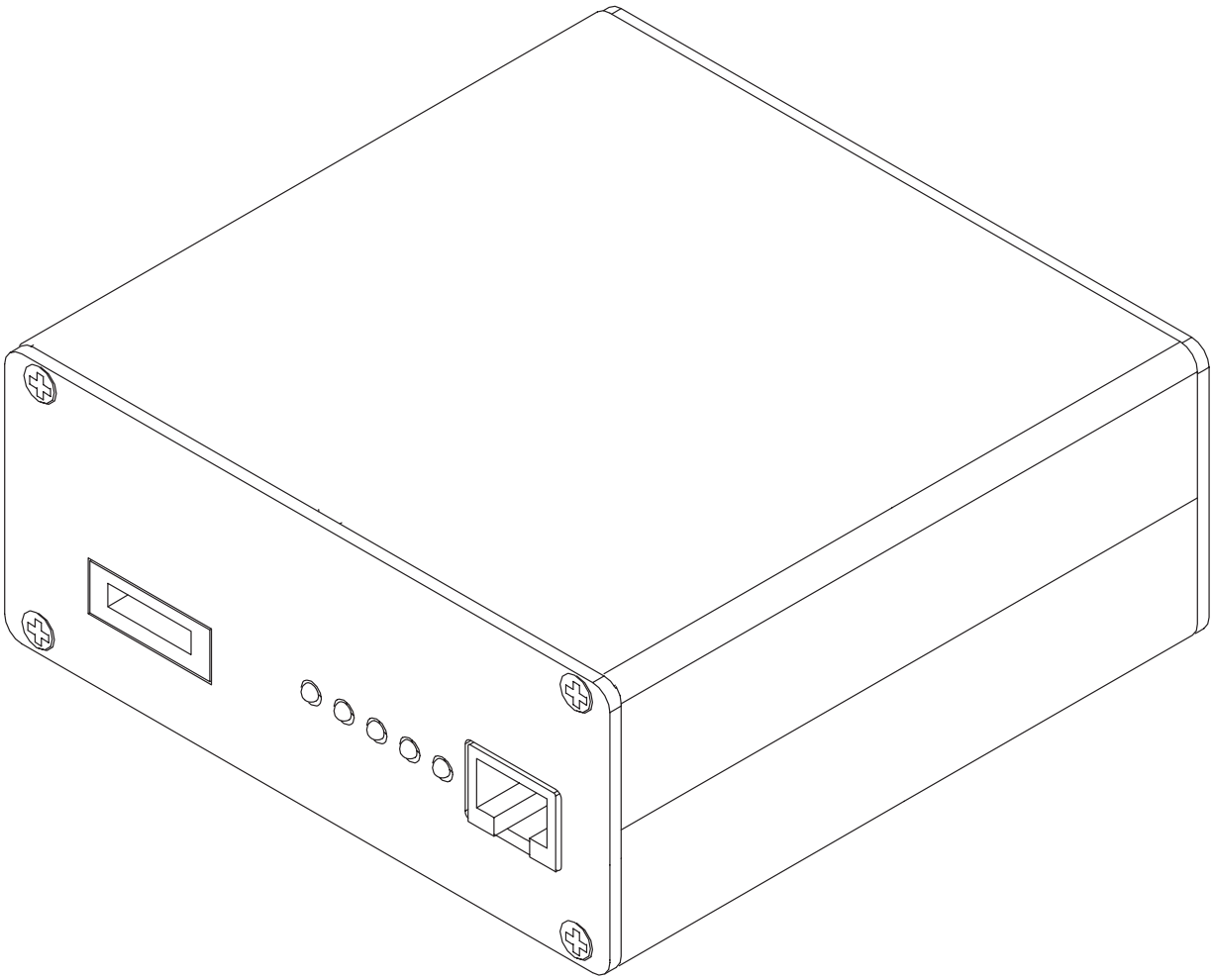
Note 1: TDF–4 is delivered in de–activated mode. Fill in the enclosed Activation Request Form, and fax to NMP Salo to get the activation code

Note 2: The infra red module JLP–1 is not included in the TDF–4 sales package

### Product Code

| | |
|---|---|
| Security Box TDF–4: | 0770106 |

### View of TDF–4



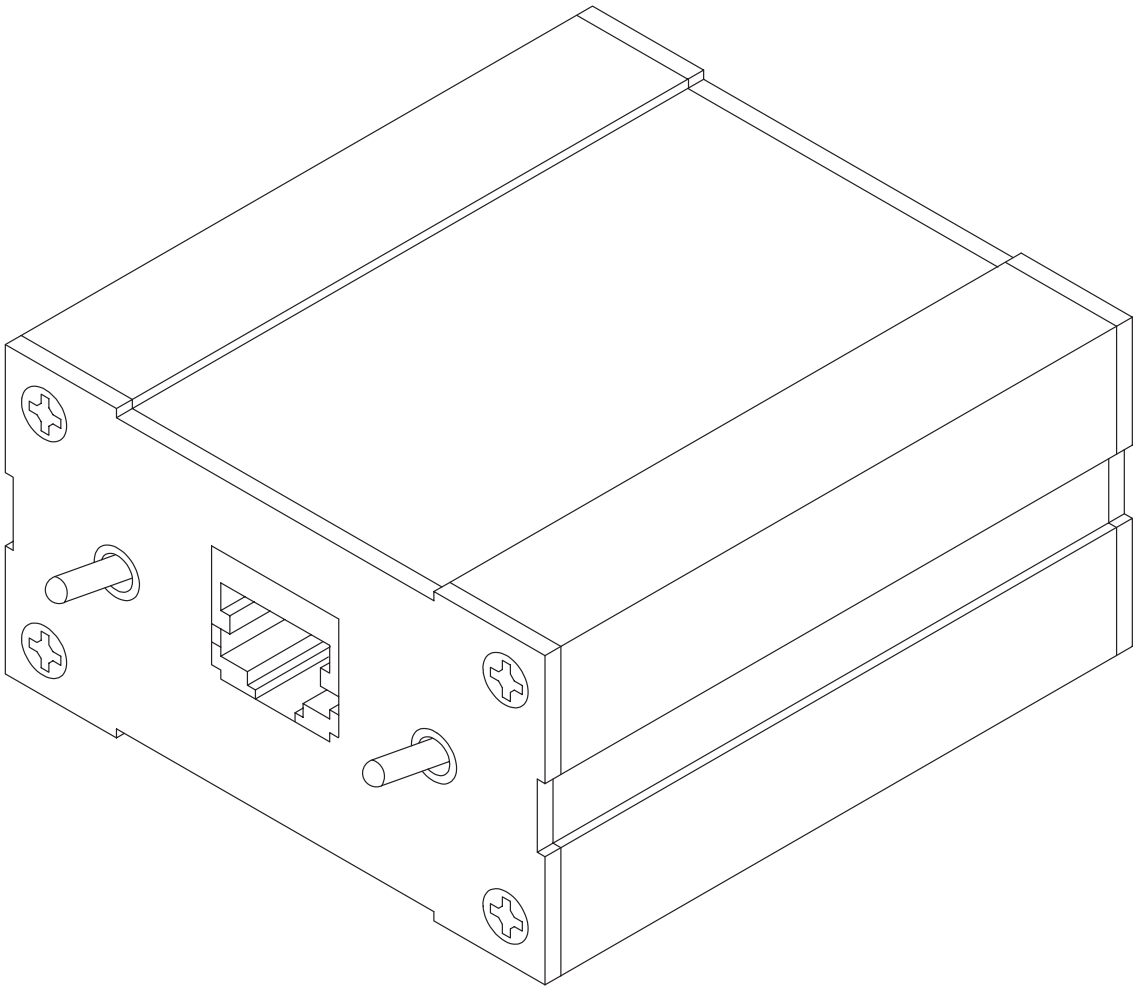
## Service Audio Box JBA–4

The Service Audio Box JBA–4 is used between the Service Cable SCH–5, MBUS Cable DAU–9S, and Audio Cable ADS–1.

### Product Code

Service Audio Box JBA–4: 0770094

### View of JBA–4



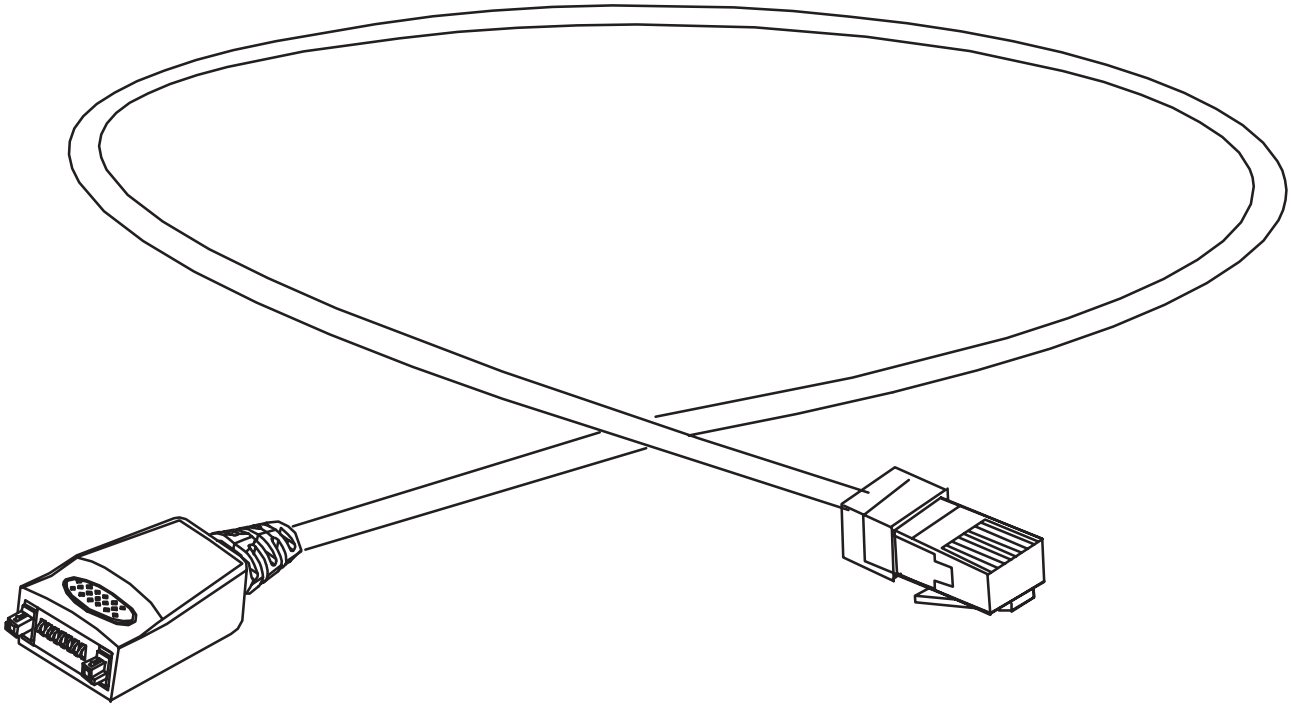
## Service Cable SCH–5

The Service Cable SCH–5 is used between the phone and Service Audio Box JBA–4 (or modular T–adapter. It is also used between the phone and the Flash Loading Adapter FLA–5.

**Product Code**

Service Cable SCH–5: 0730098

**View of SCH–5**



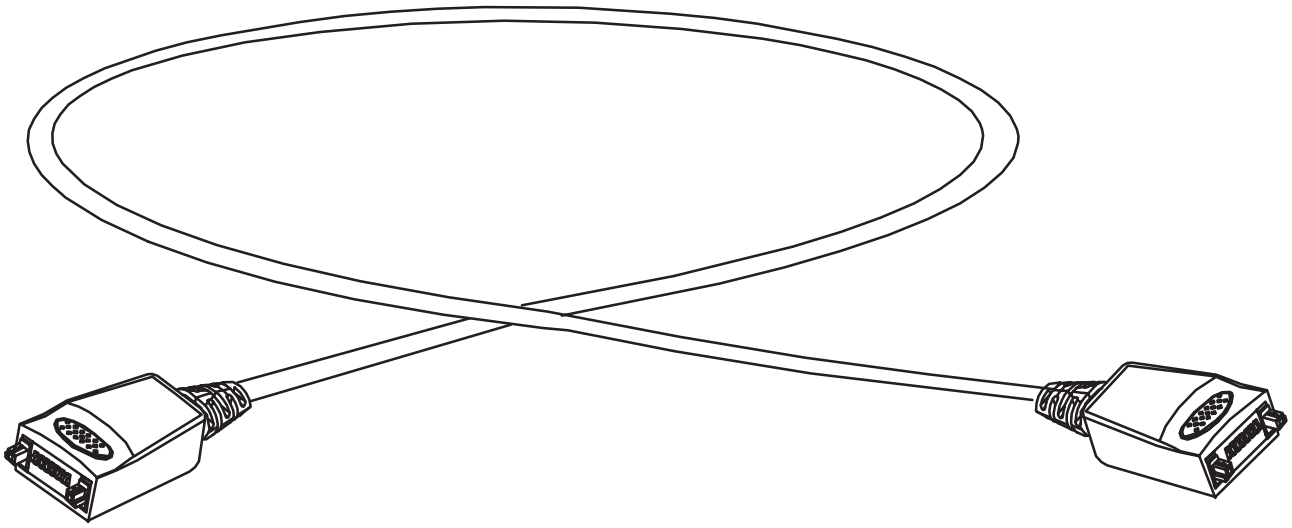
## Warranty Cable SCH–6

The Warranty cable SCH–6 is used to connect two phones, and enables transfer of data (stored numbers etc.) from one phone to another.

**Product Code**

Warranty Cable SCH–6: 0730099

**View of SCH–6**



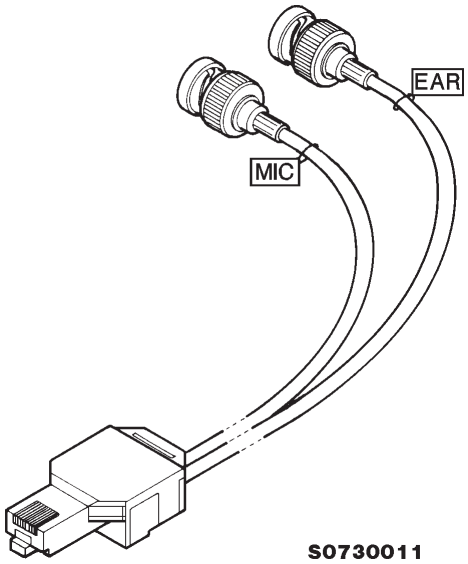
# Audio Cable ADS–1

Audio cable is an adapter routing AF signals (MIC/EAR) from 8 pin modular connector to two BNC connectors. It is used to connect JBA–4, SCH–5, and DAU–9S.

**Product code**

Audio Cable ADS–1: 0730011

**View of ADS–1**



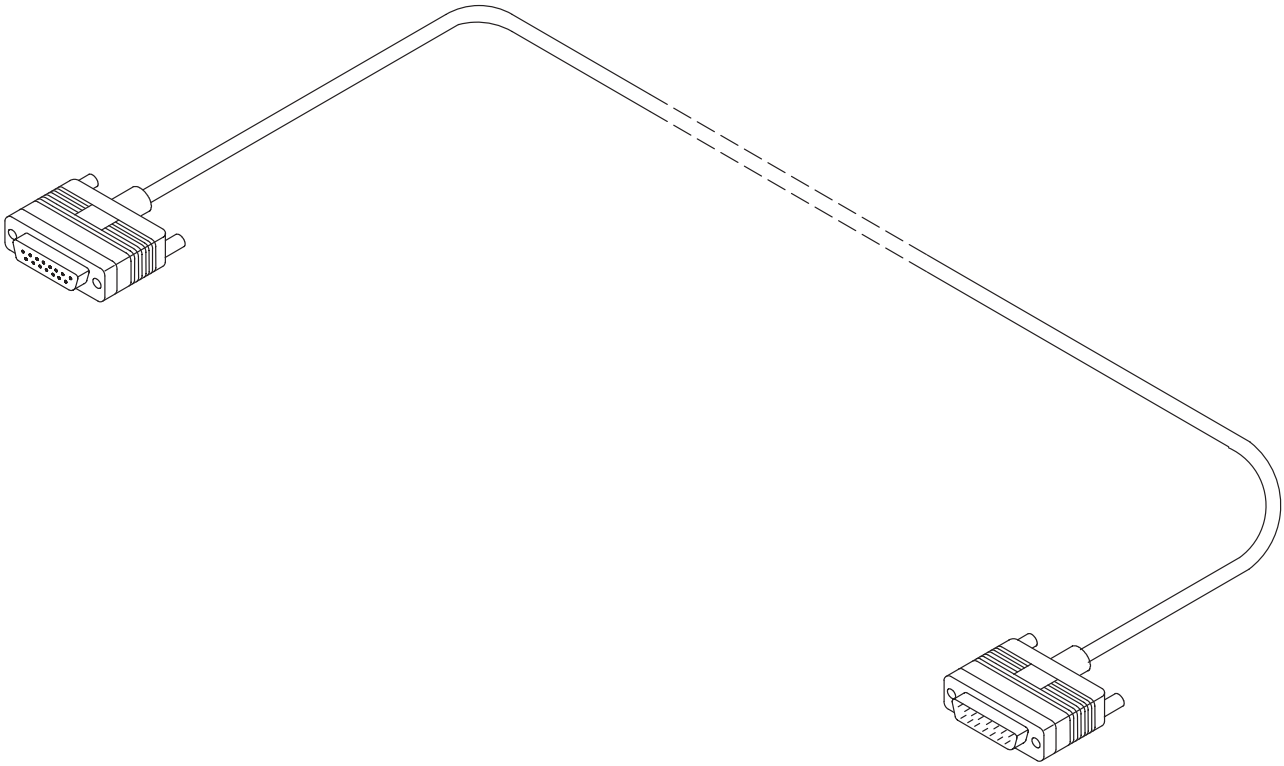
## D15–D15 Cable AXS–5

The D15–D15 Cable AXS–5 is used to connect two 15 pin D connectors. e.g. between FLA–5 and FPS–4S.

**Product Code**

D15–D15 Cable AXS–5: 0730091

**View of AXS–5**



# DC Charging Cable PCC–1

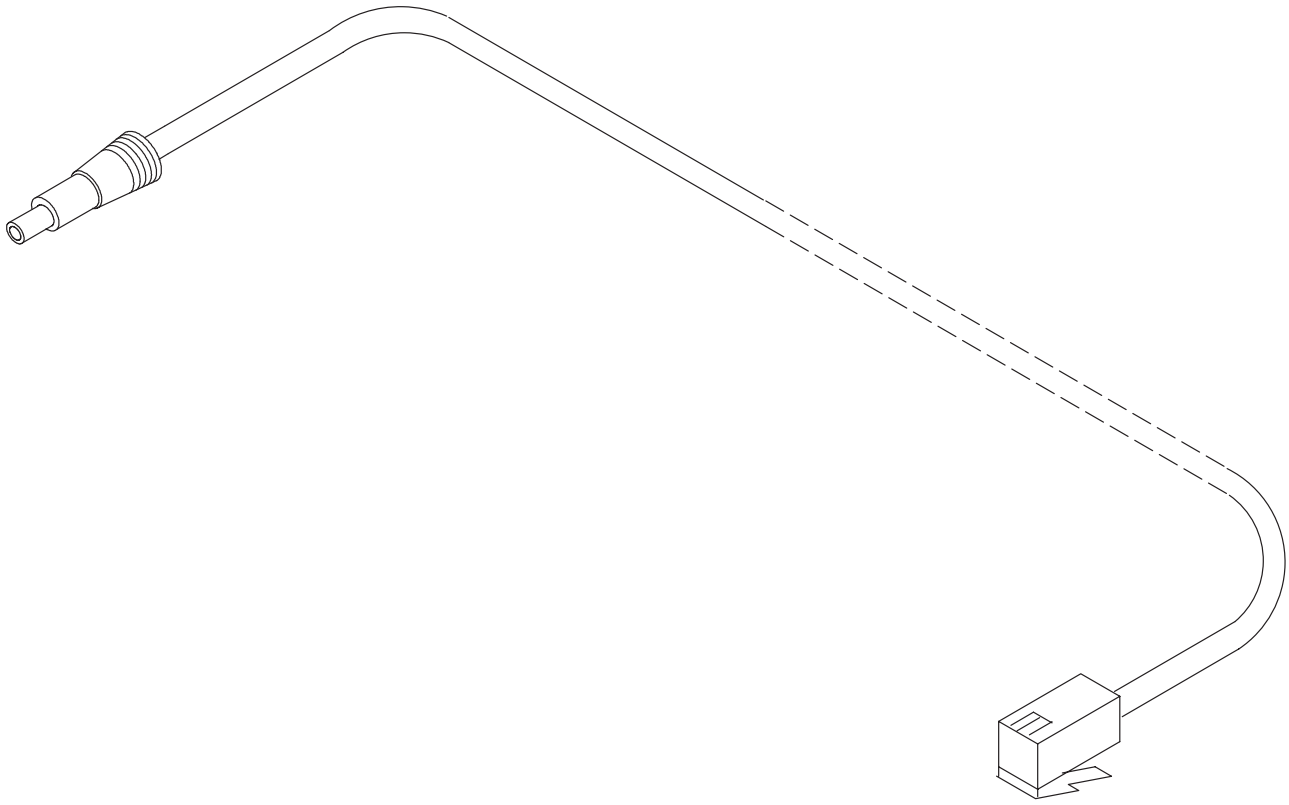
The DC Cable PCC–1 is used e.g. to connect FLA–5 and TDF–4.

**Product Code**

DC Cable PCC–1 (with modular RJ connector): 0730053

DC Cable PCC–1B (with banana connectors): 0770050

**View of PCC–1**



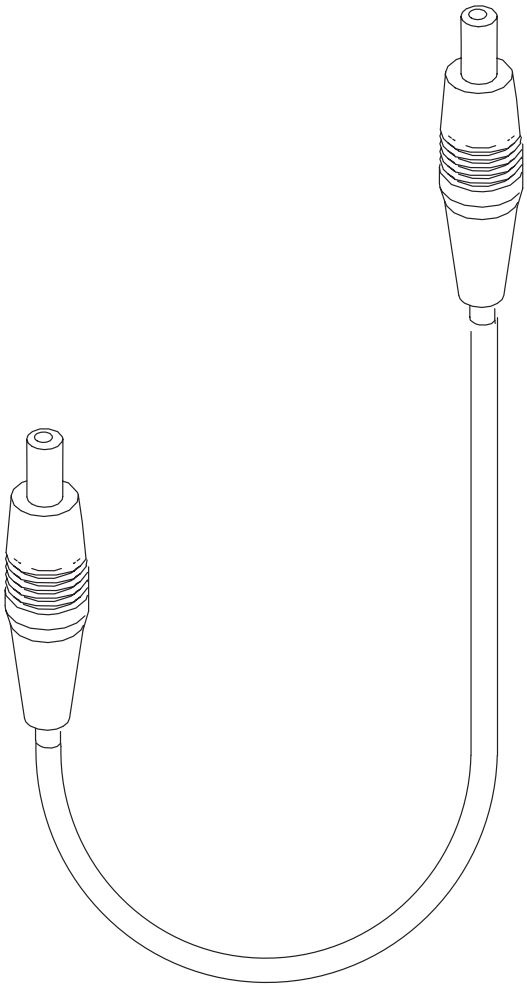
# DC Cable SCB–3

The DC Cable SCB–3 is used to connect the Service Battery to the charger connection Vin of the phone when doing the charger calibration service procedure.

**Product Code**

DC Cable SCB–3: 0730114

**View of SCB–3**



# External Antenna Cable XRC–1B

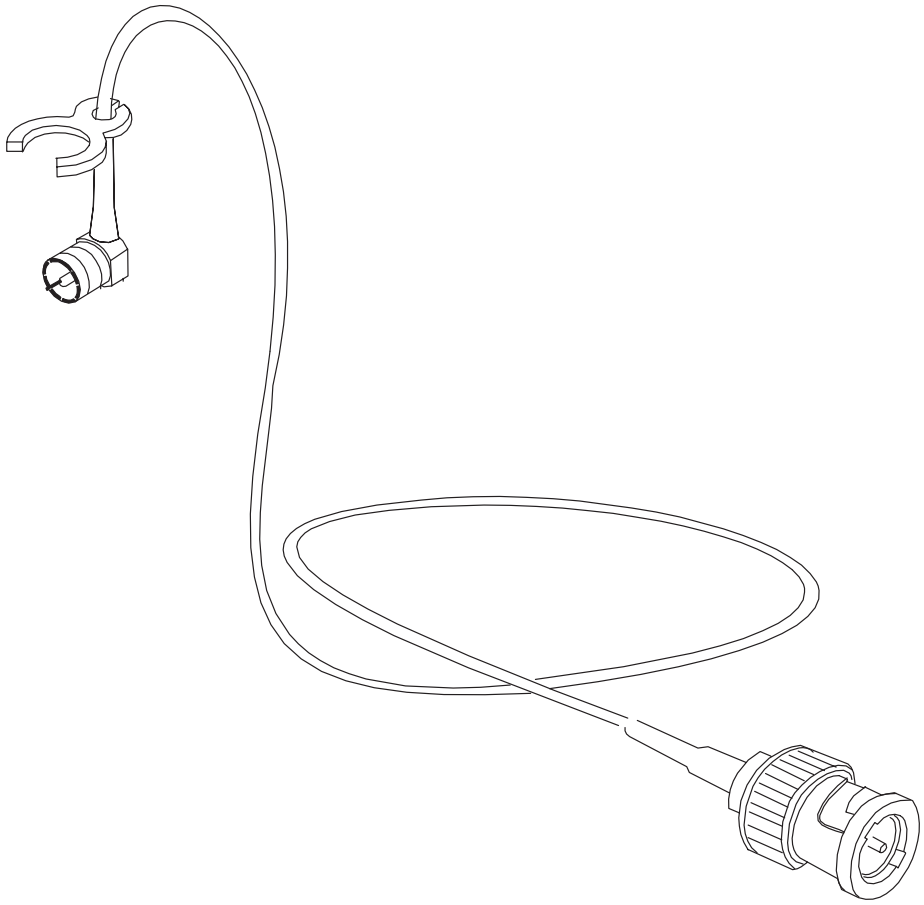
The External Antenna Cable is used to connect the transceiver to measuring equipment during servicing.

Note: Typical attenuation at 900 MHz is 0.7 dB.
Typical attenuation at 1800 MHz is 0.9 dB.

## Product Code

| | |
|---|---|
| External Antenna Cable XRC–1B: | 0730128 |

## View of XRC–1B



# Light Flash FLC–5 (Sales Pack)

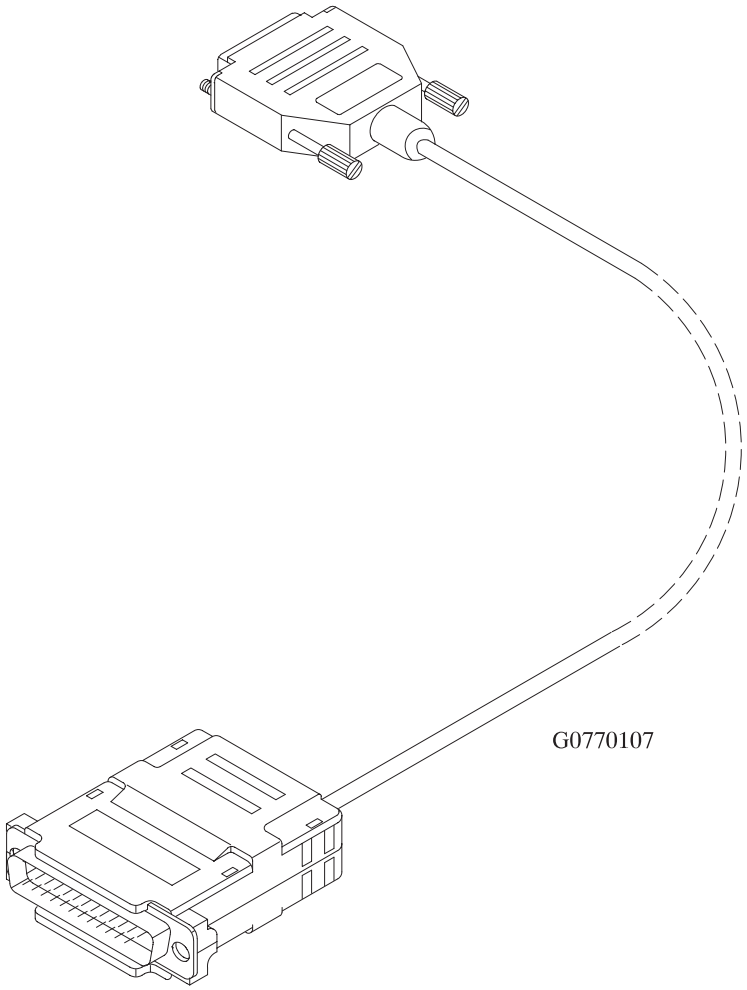
The sales pack includes:

| | |
|---|---|
| – Light Flash Cable FLC–5 | 0770107 |
| – Modular Cable XCM–1 | 4626131 |
| – Light Flash PC SW | 0774094 |

**Sale package code**

| | |
|---|---|
| Light Flash FLC–5: | 0081263 |

**View of FLC–5**



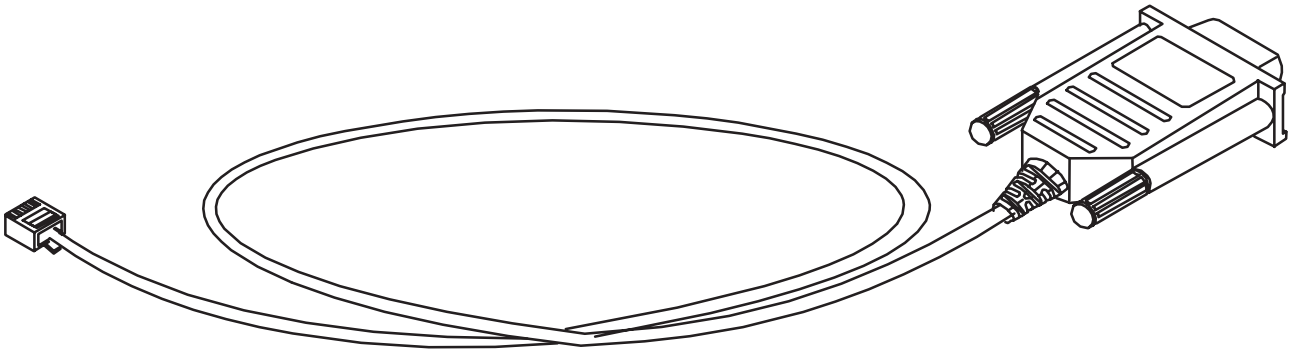
## MBUS Cable DAU–9S

The MBUS Cable DAU–9S has a modular connector, and is used with the service Audio Box JBA–4, or a modular T–adapter.

**Product Code**

MBUS Cable DAU–9S: 0730108

**View of DAU–9S**



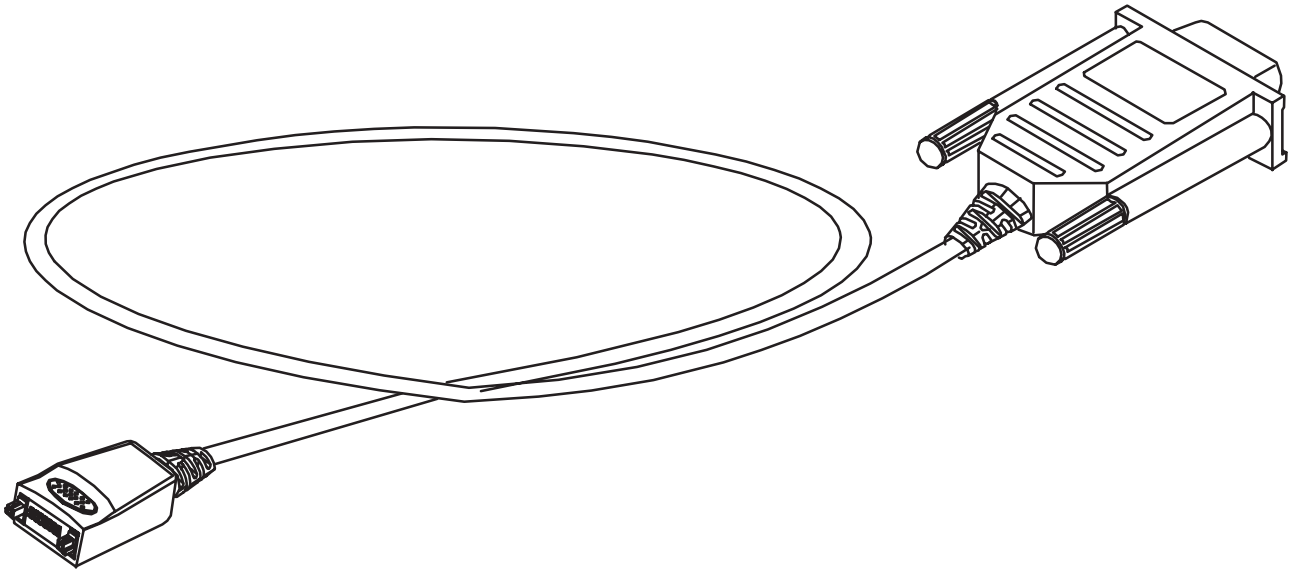
## MBUS Cable DAU–9P

The MBUS Cable DAU–9P has a phone system connector, and is used between the phone and external devices.

**Product Code**

MBUS Cable DAU–9P: 0730109

**View of DAU–9P**



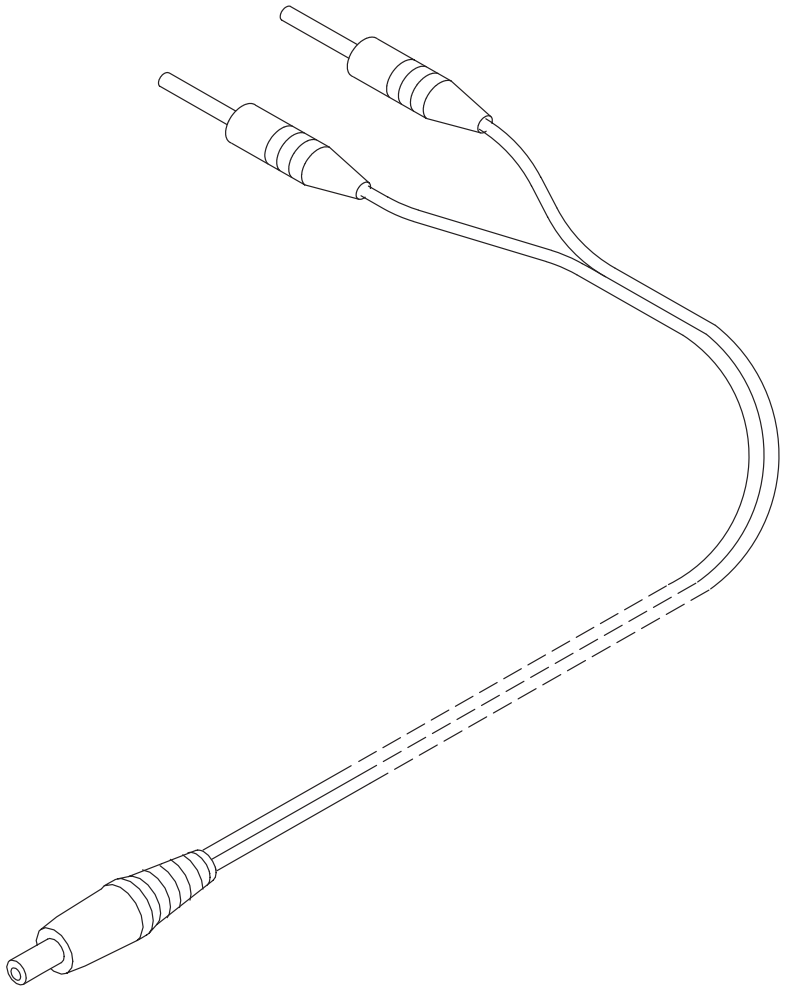
# Power Cable PCS–1

The Power Cable PCS–1 is used to connect the module jigs JBT–1 and JBS–19 to an external power supply. Can be used with FPS–4 also.

**Product Code**

Power Cable PCS–1: 0730012

**View of PCS–1**



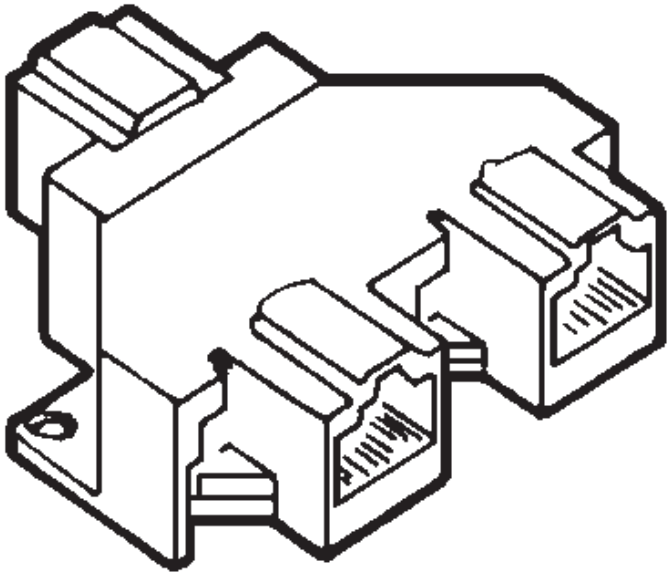
## Modular T–adapter

The modular T–adapter is a suitable branching unit to provide the needed parallel modular connections.

**Product Code**

Modular T–adapter: 4626134

**View of Modular T–adapter**



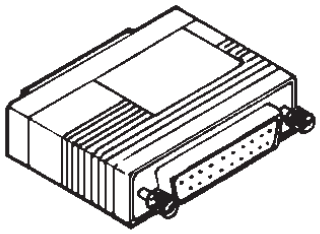
## SW Security Device PKD–1

SW security device is a piece of hardware enabling the use of the service software when connected to the parallel (LPT) port of the PC. Whitout the dongle present it is not possible to use the service software. Printer or any such device can be connected to the PC through the dongle if needed.

*Caution: Make sure thet you have switched off the PC and the printer before making connections!*

*Caution: Do not connected the PKD–1 to the serial port. You may damage your PKD–1!*

### Product Code

SW Security Device PKD–1: 0750018

### View of SW Security Device