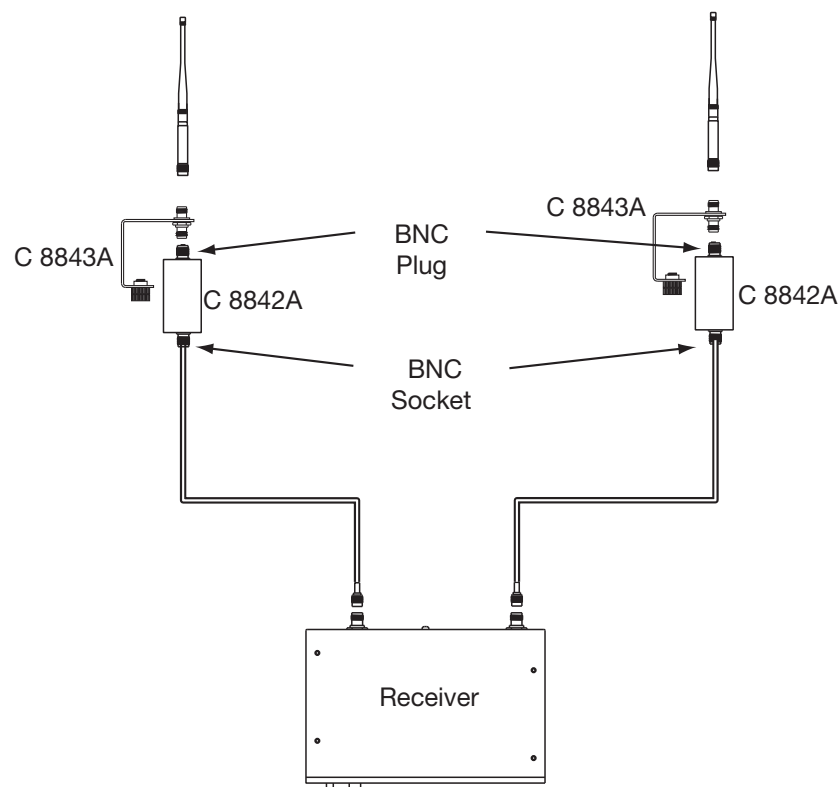


Figure 3. Antenna Booster Setup.



Altronics P 0524 BNC adaptor may be fitted to a metal plate made from steel, copper or aluminium foil (for a ground plane) instead of the C 8843A bracket. Suggest fitting metal plate behind a standard HPM or Clipsal wallplate.

Long Distance Booster Setup (C 8842A).

Note that the C 8842A can only be installed one way. The BNC socket should be oriented to the receiver side, while the male BNC connects to the aerial side. This will require either a C 8843A bracket or an Altronics P 0524 BNC socket to socket adaptor. If you do not get additional transmission distance from your system after installation, check that the boosters are installed the correct way around. For cable selection, see table below:

Type	Impedance	Loss@800MHz	Max Length
RG213	50 Ohm	19.0dB/100m	52m
RG58	50 Ohm	50.7dB/100m	20m

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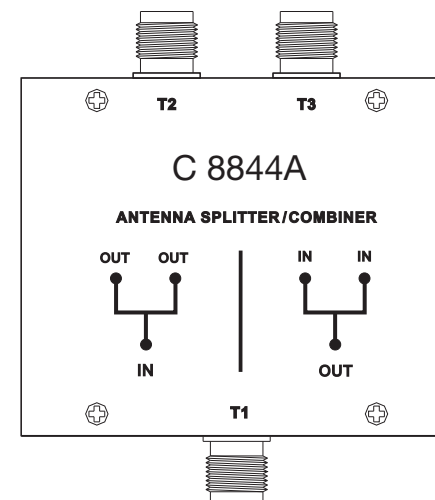


UHF ANTENNA ACCESSORIES

C 8842A Antenna Booster

C 8843A Antenna Mounting Bracket

C 8844A Antenna Splitter/Combiner



Operating Instructions

Overview

The C 8844A could be used to split a reception signal into two outgoing signals (one input to two output) or combine two reception signals into one outgoing signal (two input to one output).

Specifications

Frequency range	400 ~ 1000MHz
Voltage Wave Standing Ratio (VSWR)	< 2
Input Impedance	50 ohms
Isolation	18 dB
Loss	< 3 dB
Connections	All BNC Female type
Dimension (mm) W x D x H	77 x 64 x 26

Application

Antenna Splitter Setup

The C 8844A antenna splitter / combiner can be used to split each antenna signal for two receivers. For longer cable runs we recommend the use of the C 8842 antenna booster (See Figure 3). For cable selection, see table below:

Without C 8842A Booster: 1m max.			
With C 8842A Booster			
Type	Impedance	Loss@800MHz	Max Length
RG213	50 Ohm	19.0dB/100m	36m
RG58	50 Ohm	50.7dB/100m	14m

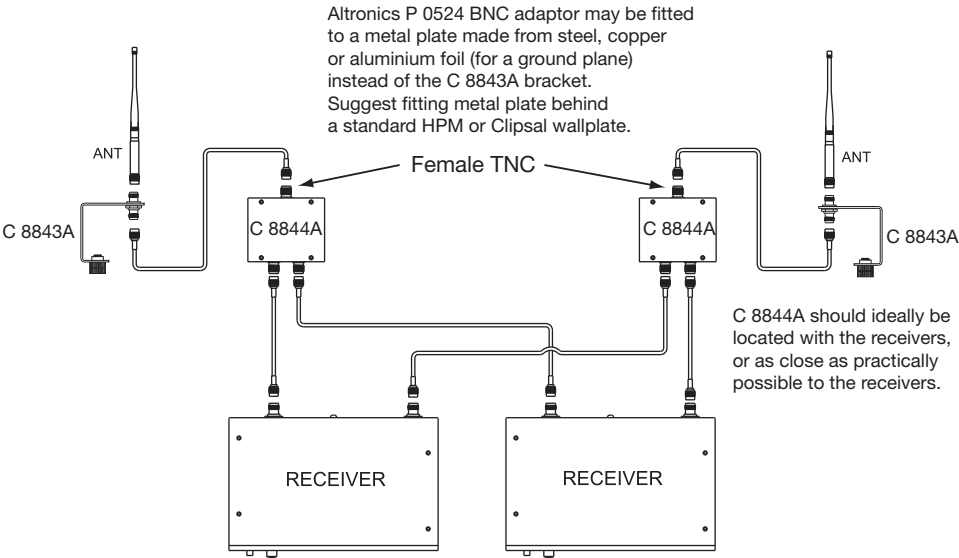


Figure 1: Antenna Splitter

Antenna Combiner Setup

To increase the RF receiving area, for large areas such as shopping malls, auditoriums, school campus', stadiums etc, the C 8844A splitter / combiner can be used to combine RF signals from multiple antenna's. This can reduce the chances of dropouts. We recommend the use of the C 8842A antenna booster for this setup. For cable selection, see table below:

Type	Impedance	Loss@800MHz	Max Length
RG213	50 Ohm	19.0dB/100m	36m
RG58	50 Ohm	50.7dB/100m	14m

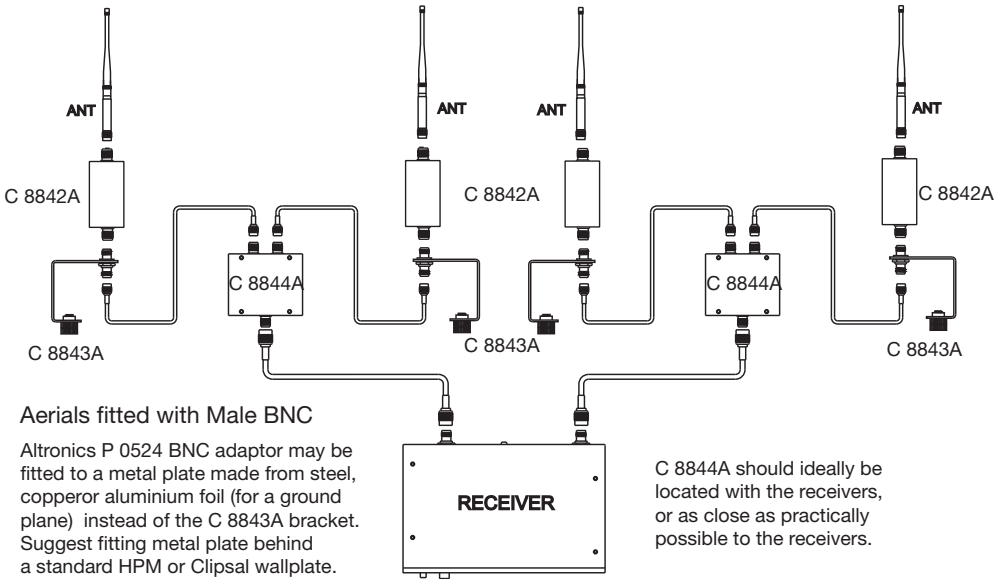


Figure 2.

Figure 2: Antenna Splitter Combiner

Note: Altronics older series antenna accessories can be mixed and matched with in this manual by simply using the appropriate connections and adaptors.