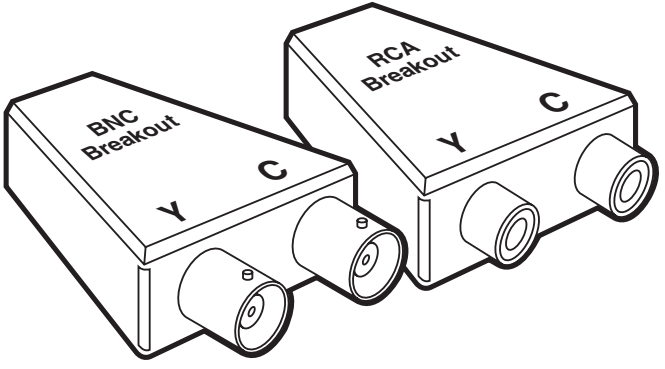
BLACK BOX®
NETWORK SERVICES

MARCH 2000
AC425A
AC426A

S-Video Breakout BNC or RCA



CUSTOMER SUPPORT INFORMATION

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FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
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TRADEMARKS USED IN THIS MANUAL

RCA® is a registered trademark of Verizon Communications.

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1. Specifications

Connectors — AC425A: (2) 75-ohm BNC,
(1) 4-pin mini-DIN female;
AC426A: (2) gold RCA®,
(1) 4-pin mini-DIN female

Size — 0.5"H x 1.4"W x 1.9"D (1.3 x 3.6 x 4.8 cm)

Weight (for two units) — 1 lb. (0.5 kg)

2. Introduction

2.1 Description

S-Video is a form of video found on most consumer-grade VCRs, camcorders, and televisions. It is also a video output on some PC video cards. S-Video is made up of the Luminance component (also known as "Y") and the Chrominance component (also known as "C").

S-Video can normally be run only over 50 feet or so of S-Video Cable before the signal degrades so badly that it's of little use. To run S-Video over a longer distance (as is common), you can put the components that make up S-Video on two separate co-axial cables. To do this, use the S-Video Breakout, a passive bi-directional breakout device. Two models are available: The BNC model lets you run your S-Video signal from one 4-pin female mini-DIN connector to two 75-ohm BNC connectors. The RCA model lets you run your S-Video signal from one 4-pin female mini-DIN connector to two gold RCA connectors.

2.2 Features

- Connectors are encased in epoxy, so cables are not subject to flexing.
- Perfect for presentation and home-theater systems.
- Smaller, lighter, and more rugged than standard breakouts.
- Waterproof.

2.3 Typical Application

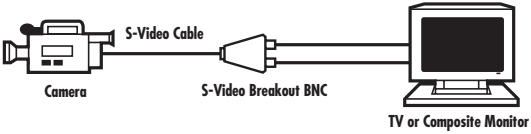

Figure 2-1. Typical Application.

3. Installation

NOTE

You must use two S-Video Breakouts to complete installation (one at the S-Video source and one a S-Video termination).

1. Connect your S-Video source's output (VCR, camcorder, distribution amplifier, etc.) to the Breakout's 4-pin female mini-DIN input.

2. Connect one coaxial cable to each output (the connector type is determined by the breakout you have). It is helpful to mark the cables as "Y" and "C" respectively.

3. At the terminating end of the cable run, connect the "Y" cable to the "Y" input connector and the "C" cable to the "C" input connector.

4. Finally, connect an S-Video cable to the 4-pin female mini-DIN.

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