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Canare L-4CFB

Canare L-4CFB 75 Ohm HD-SDI Coax Cable Instruction Manual

Model: L-4CFB | Brand: Canare

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Canare L-4CFB 75 Ohm HD-SDI Coaxial Cable. The L-4CFB is a high-performance digital video cable designed for professional applications requiring reliable signal transmission, such as SD/HD-SDI, satellite head-ends, and various broadband, digital, and HDTV facilities.

KEY FEATURES

- **Model:** L-4CFB (RG-59 Type)
- **Impedance:** 75 Ohm, optimized for digital video signals.
- **Conductor:** Solid copper center conductor for superior signal integrity.
- **Shielding:** Tinned copper-braided shield for effective interference rejection.
- **Dielectric:** Foam polyethylene dielectric for low signal loss.
- **Application:** Suitable for SD/HD-SDI, satellite, broadband, digital, and HDTV systems.
- **Color:** Blue outer jacket.

PRODUCT OVERVIEW

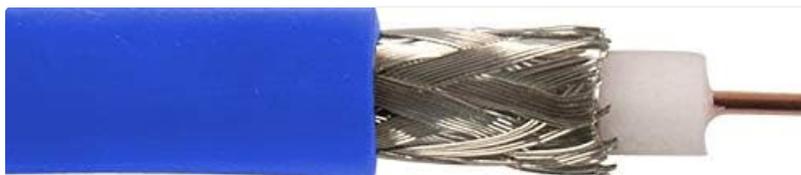


Image 1: Detailed view of the Canare L-4CFB coaxial cable's internal structure, highlighting the blue outer jacket, the braided metallic shield, the white insulating dielectric, and the central copper conductor. This construction ensures optimal signal transmission and protection against interference.

SETUP AND INSTALLATION

1. **Cable Preparation:** Ensure the cable ends are properly terminated with appropriate 75 Ohm BNC connectors for HD-SDI

applications. Proper termination is crucial for maintaining signal integrity and impedance matching.

2. **Connection:** Connect one end of the L-4CFB cable to the video output port of your source device (e.g., camera, video switcher, SDI router).
3. **Destination:** Connect the other end of the cable to the video input port of your receiving device (e.g., monitor, recorder, distribution amplifier).
4. **Secure Connections:** Ensure all connectors are securely fastened to prevent signal loss or intermittent connections.
5. **Cable Routing:** Route the cable carefully, avoiding sharp bends, kinks, or excessive tension, which can damage the cable's internal structure and affect performance. Keep cables away from sources of electromagnetic interference (EMI) where possible.

OPERATING GUIDELINES

Once the Canare L-4CFB cable is properly installed, its operation is passive. The cable facilitates the transmission of digital video signals between compatible devices. Ensure that both the source and destination devices are powered on and configured correctly for SDI signal input/output.

- Verify that the signal format (e.g., SD-SDI, HD-SDI) is compatible with both connected devices.
- For long cable runs, consider using an SDI re-clocker or distribution amplifier to maintain signal strength and integrity.

MAINTENANCE

- **Cleaning:** Keep cable connectors clean and free from dust or debris. Use a lint-free cloth and a suitable electronic contact cleaner if necessary.
- **Storage:** When not in use, coil the cable loosely to prevent kinks and store it in a dry, temperate environment away from direct sunlight or extreme temperatures.
- **Inspection:** Periodically inspect the cable jacket and connectors for any signs of wear, damage, or corrosion. Replace damaged cables to prevent signal degradation.
- **Avoid Stress:** Do not pull on the cable by the connector. Always grasp the connector body when connecting or disconnecting.

TROUBLESHOOTING

- **No Signal/Intermittent Signal:**

Check all cable connections to ensure they are secure and properly seated.

Inspect the cable for visible damage (kinks, cuts, crushed areas). Replace if damaged.

Verify that the source device is outputting an SDI signal and the receiving device is configured to accept it.

Test with a known working cable to isolate the issue.

- **Poor Picture Quality (e.g., pixelation, dropouts):**

This can indicate signal degradation. Ensure the cable length is within the recommended limits for your specific SDI format (e.g., HD-SDI has shorter maximum runs than SD-SDI).

Check for electromagnetic interference (EMI) sources near the cable run.

Verify that the cable terminations are correctly installed and not damaged.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	Canare
Model	L-4CFB (RG-59 Type)
Impedance	75 Ohm
Cable Type	Coaxial
Conductor	20 AWG Solid Copper Center
Shielding	Tinned Copper-Braided Shield
Dielectric	Foam Polyethylene
Color	Blue
Compatible Connectors	75 Ohm BNC (user-supplied)
Compatible Devices	Television, Professional Video Equipment
Indoor/Outdoor Usage	Indoor, Outdoor
Item Weight	Approximately 33 pounds (for 300M length)
ASIN	B07QD35728
UPC	653981538620

WARRANTY AND SUPPORT

For specific warranty information and technical support regarding your Canare L-4CFB coaxial cable, please refer to the documentation provided with your purchase or contact Canare directly through their official website. Warranty terms and conditions may vary based on region and retailer.

