blake PROSPL1214 RF Range DC Blocked Splitters User Guide

Contents

blake PROSPL1214 RF Range DC Blocked Splitters

Product Information

Specifications

- Brand: Blake RF Range
- Product Type: DC Blocked Splitters
- Model: PROSPL1214, PROSPL1616
- Frequency Range: 5-1000MHz
- Insertion Loss:
  - PROSPL1214: 14.5dB
  - PROSPL1616: 15.5dB
- Power Pass: 24V AC or DC at 400mA max
- Number of Ways:
  - PROSPL1214: 12-Way
  - PROSPL1616: 16-Way

Product Usage Instructions

Indoor Use
The splitters are primarily intended for indoor use. Ensure proper ventilation and avoid exposure to moisture.

Outdoor Use
If mounting outdoors, place the splitters in weatherproof housings to protect them from challenging weather conditions.

Installation

1. Identify the appropriate signal input and output connections on the splitter.
2. Connect the incoming signal source to the input port of the splitter.
3. Connect the output ports to the devices or components requiring the signal distribution.
4. Ensure all connections are secure to prevent signal loss.

Maintenance
Regularly inspect the splitters for any signs of damage or wear. Clean them gently with a dry cloth if needed.

FAQ

- **Q: Can these splitters be used for both VHF and UHF systems?**
  A: Yes, the splitters are suitable for VHF and UHF MATV systems within the specified frequency range of 5-1000MHz.
- **Q: What is the maximum power pass rating for these splitters?**
  A: The splitters can handle a maximum power pass of 24V AC or DC at 400mA.

Blake RF Range
DC Blocked Splitters

- A DC blocked splitter is an electronic device used to divide a single antenna feed into multiple outputs. It blocks direct current (DC) while allowing radio frequency (RF) signals to pass through. This feature prevents unwanted DC signals from entering the system, which can be crucial for the protection of sensitive equipment. Commonly used in VHF and UHF MATV systems, such splitters are equipped with F-Type connectors and operate in the 5-1000MHz frequency range. They are designed with fully-screened diecast housings to reduce interference and signal loss.
- DC blocked splitters are utilised in systems like MATV for efficient distribution of TV and radio signals from one central antenna to multiple receivers in large structures such as hotels or apartment complexes. They are also ideal in residential or commercial environments where a single antenna source needs to feed multiple televisions. The DC blocking feature is critical for protecting sensitive equipment from potential damage due to unwanted DC currents, while ensuring high-quality signal distribution and clear reception.

Features

12-Way
The PROSPL range of internal splitters offers high-performance network passive components suitable for VHF and UHF MATV systems. While primarily intended for indoor use, these splitters can also be mounted in suitable weatherproof housings for outdoor applications, safeguarding their longevity and performance in challenging weather conditions. Each model within the range is distinguished by a unique product code and offers a specific number of ways for signal distribution.

12-Way Splitter, Loss 14.5dB, DC Blocked
PROSPL1214

Both of these products benefit from:

- High-performance network passive components for VHF & UHF MATV systems.

- Frequency range 5-1000MHz.
- Fully-screened diecast housings with ‘F’ connectors throughout.
- For indoor use only unless mounted in a suitable weatherproof housing.
- Rating 24V AC or DC at 400mA max

16-Way Splitter, Loss 15.5dB, DC Blocked

PROSPL1616

Specification

	PROSPL1214	PROSPL1616
Inputs	1	1
Outputs	12	16
Insertion Loss	<14.5dB	<16.5dB
Power Pass	No	No
Frequency Range	5-1000MHz	5-1000MHz
RFI	10>	10>

Our range of splitters also includes:

- PROSPL204 – 2-Way Splitter; loss <4 dB, DC pass
- PROSPL204P – 2-Way Splitter, Power Pass 1 Port
- PROSPL408 – 4-Way Splitter; Loss <8 dB, DC Pass
- PROSPL409P – 4-Way Splitter, Power Pass 1 Port
- PROSPL611 – 6-Way Splitter; Loss <11.5dB
- PROSPL612P – 6-Way Splitter, Power Pass 1 Port
- PROSPL812 – 8-Way Splitter; Loss <12.5 dB
- PROSPL612P – 6-Way Splitter, Power Pass 1 Port
- PROSPL812 – 8-Way Splitter; Loss <12.5 dB

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Documents / Resources

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References

- User Manual