

Instruction Manual

UHF/VHF Diplexer (Combiner) with DC Pass

Triple Filtered: 5G, 4G & TETRA

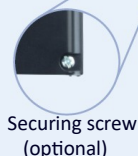


BLACOM21VU

Combine signals with minimal insertion loss.



- 90° wide opening door that clicks open/shut
- Foam seal cable entry glands
- 45° swivel & click for easy access
- Earth tag
- F Connectors
- Wall mounting lugs with standoff



Securing screw (optional)



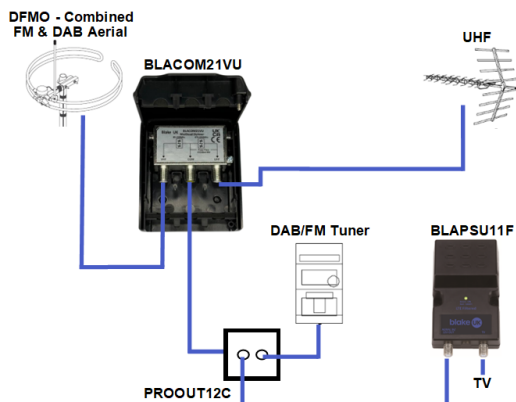
Heavy duty UV stabilised cable tie

blake triple filtered

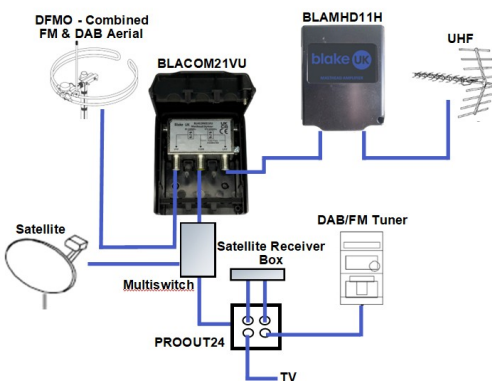
- Low insertion loss
- Power pass on UHF for masthead amps
- Effectively blocks unwanted out-of-band signals, including 5G, 4G, & TETRA
- Fully screened

The diplexer is designed to handle frequencies ranging from 85-230MHz/470-694MHz, combining signals in VHF and UHF bands.

Combining VHF and UHF signals. Ideal for use with DFMO aerial (DAB/FM):



Ideal for use with IRS multiswitch, also showing optional use of UHF preamplifier:



Features of the BLACOM21VU Diplexer for IRS Systems:

- Distributes UHF & VHF through an IRS system.
- Triple Filtered: filters 5G, 4G & TETRA interference for a cleaner signal.
- Compatible with any UHF aerial, making it ideal for coax and fibre IRS systems.
- Combines TV and DAB/FM onto the same drop cable for simplified installation.
- Optimised for 5-core IRS systems, perfect as the 'fifth' coax.
- Recommended with the Blake DFMO antenna for full-band FM and DAB.
- Built to last, meeting Blake UK's high-quality standards.



Fixing:

The unit may be fixed to a mast using the cable tie supplied or screwed to a wall or other flat surface through the two fixing holes provided in the rear part of the moulded cover. The cable tie fixing is intended to support the weight of the combiner/splitter only; cables should be taped to the mast at intervals of approximately 400mm to ensure that their weight is adequately supported. For indoor use the diecast module can be unclipped and mounted directly if desired. Do not leave a unit supported only by its cabling.

Signal Connections:

To preserve RF screening integrity the signal connections to the power unit should be made using good quality coaxial cable and connectors. This is particularly important with digital terrestrial TV (DTT) to minimise the ingress of impulsive electrical interference from home appliances.

- The use of cable benchmarked under the CAI scheme is recommended.
- The use of crimp F connectors, used in accordance with the manufacturers instructions will give the best results. The importance of achieving sound braid connections cannot be over-stressed. F connectors should be tightened with a spanner, not left finger-tight (but not over tight).

System equipotential bonding:

Bonding (earth) terminals are provided on the casting for use where BS EN 60728-11 compliance is necessary.

Features	BLACOM21VU
Insertion Loss (UHF,VHF)	1dB (typ)
Return Loss	13dB (typ)
DC Power Pass	12V/100mA
Impedance	75 ohm

2 Year Guarantee - External Product

This guarantee covers failure of your product resulting from manufacturing defect within a period of 2 years from the date of supply to the end-user. This guarantee does not cover damage to the product caused by abuse, tampering, defective installation or natural causes such as lightning discharge. Repair or attempted repair, other than by the manufacturer, will render this guarantee void. This guarantee does not affect a consumer's statutory rights.

Performance data given are typical unless otherwise stated. We reserve the right to change product designs and specifications without prior notice.

Website: www.blake-uk.com

Email: sales@blake-uk.com

Phone: 0114 223 5000

Blake UK Ltd, 177-187 Rutland Road, Sheffield, United Kingdom S3 9PT

©Blake-UK 2025 All rights reserved E&OE product specification may be changed without prior notice