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THE FRINGE COMMITMENT

A commitment to product quality and reliability has made Fringe a leading brand name in the market since 1978.

We maintain our reputation by ensuring all design and assembly processes are carried out in-house at our Clipstone factory.

Products are 100% tested and masthead amplifiers receive an additional air test to ensure full performance before final packing.

Every product is also made completely traceable by use of quality control labels, which carry individual assembly codes.

All fringe products are guaranteed for a period of three years from date of purchase. This is on a "return to base" basis. Please contact us if you would like to claim repair or replacement under these terms. Statutory rights are not affected. All Fringe manufactured products contain coded date of manufacture information.





FRINGE ELECTRONICS LIMITED ELECTRONIC EQUIPMENT MANUFACTURERS

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MADE IN THE UK

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All masthead amplifiers and diplexers are housed in a weather proof enclosure. Membrane grommets are used to ensure a sealed cable entry, the coaxial cables are clamped by a brass, one piece, spring loaded cable clamp.

A releasable plastic strap fits any diameter mast. Holes are provided for surface mounting.

OUTDOOR ENCLOSURES



EASY TUNE/EASY BOOST ENCLOSURE



Colour: White

Colour: Green

OUTDOOR 4 ENCLOSURE

INDOOR ENCLOSURES



SIGNAL FINDER ENCLOSURE



Colours: Grey and Black



T6 ENCLOSURES



88 18 0 0 0 88 60



68



Colour: White

6 WAY, 7 WAY, 8 WAY & LDU ENCLOSURES



Colours: Black and White

(F

All dimensions in millimetres.

UHF TV Signal Finder



The UHF TV signal finder is designed for use where TV is received over UHF frequencies. Especially with caravan / motorhome / boat users with directional TV aerials in mind.

	213-200				
ent	9V PP3 Battery. Avg. 60mA.				
	Zinc (6F22) — 6Hrs continuous use.				
	Alkaline (6LR61) – 10Hrs continuous use.				
onse	UHF, 470-790Mhz, (CH21-60)				
	<4db				
tivity	(5 TV Channels / 6 digital MUX +/-3db)				
47dBµV	Weak signal, not all TV services may be available				
50dBµV	Weak signal, not all TV services may be available				
53dBµV	Weak signal, not all TV services may be available				
56dBµV	Weak signal, not all TV services may be available				
59dBµV	Optimµm signal				
62dBµV	Optimum signal				
65dBµV	Optimum signal				
68dBµV	Optimum signa				
71dBµV	Optimum signal				
74dBµV	Optimum signal				
77dBµV	Optimum signal				
80dBµV	Strong signal, attenuation may be required.				
	ent bnse 47dBµV 50dBµV 50dBµV 50dBµV 50dBµV 62dBµV 62dBµV 65dBµV 65dBµV 71dBµV 74dBµV 77dBµV 80dBµV				



Worldwide Signal Finder



The Worldwide VHF/UHF TV signal finder is designed for use in any country that transmits TV over VHF or UHF frequencies. Especially with caravan / motorhome / boat users with VHF/UHF directional TV aerials in mind.

Part Number		213-210				
Power Requirem	ient	9V PP3 Battery. Avg. 60mA.				
Battery Life		Zinc (6F22) – 6Hrs continuous use.				
		Alkaline (6LR61) – 10Hrs continuous use.				
Frequency Resp	onse	UHF, 470-790Mhz, (CH21-60); VHF, 47 -230MHz				
Mid Band Sensi	tivity	(5 TV Channels / 6 digital MUX +/-3db)				
1 LED	42dBµV	Weak signal, not all TV services may be available				
2 LED's	45dBμV	Weak signal, not all TV services may be available				
3 LED's	48dBµV	Weak signal, not all TV services may be available				
4 LED's	51dBµV	Weak signal, not all TV services may be available				
5 LED's	54dBµV	Optimum signal				
6 LED's	57dBµV	Optimum signal				
7 LED's	60dBµV	Optimum signal				
8 LED's	63dBµV	Optimum signa				
9 LED's	66dBµV	Optimum signal				
10 LED's	69dBµV	Optimum signal				
11 LED's	72dBµV	Optimum signal				
12 LED's	75dBµV	Strong signal, attenuation may be required.				



PRO TV & Satellite Signal Finder

The PRO TV & SATELLITE signal finder is a highly sensitive and accurate combined UHF TV and satellite signal finder. It incorporates both **audio** and **visual** signal indication and UHF signal finding has much improved sensitivity over previous models giving greater accuracy for aerial alignment in areas with poor signal strength.



Part Number		213-230				
Power Requirem	ient	9V PP3 Battery. Avg. 60mA. (Or automatic power via				
		Satellite Receiver connection 13-18VDC).				
Battery Life		Zinc (6F22) – 6Hrs continuous use.				
		Alkaline (6LR61) $-$ 10Hrs continuous use.				
Frequency Resp	onse	TV - 470-790Mhz				
		SAT - 950-2100Mhz				
Mid Band Sensi	tivity	(5 TV Channels / 6 digital MUX +/-3db)				
1 LED	43dBµV	Weak signal, not all TV services may be available				
2 LED's	46dBµV	Weak signal, not all TV services may be available				
3 LED's	51dBµV	Weak signal, not all TV services may be available				
4 LED's	53dBµV	Weak signal, not all TV services may be available				
5 LED's	56dBµV	Optimum signal				
6 LED's	59dBµV	Optimum signal				
7 LED's	62dBµV	Optimum signal				
8 LED's	65dBµV	Optimum signal				
9 LED's	68dBµV	Optimum signal				
10 LED's	71dBµV	Optimum signal				
11 LED's	74dBµV	Optimum signal				
12 LED's	77dBµV	Strong signal, attenuation may be required.				



PRO+ TV & Satellite Signal Meter

The PRO+ TV & SATELLITE signal meter is a highly sensitive and accurate combined UHF TV and satellite signal finder. It incorporates both **audio** and **visual** signal indication and UHF signal finding. Also incorporated is a 13V LNB power source, providing an aid to dish alignment without the need for connection to a receiver or other power source.





Part Number		213-240			
Power Requirem	ient	9V PP3 Alkaline Battery. (high peformance batteries recommended)			
Battery Life and Recommended Batteries:		Energizer Industrial, Energizer Ultra + and Energizer Hightech all achieve >50 SAT uses or >10hrs continuous TV aerial use. Ansmann 300AKKU, Ansmann 200 AKKU; nx-ready 9V NiMH all achieve >30 SAT uses or >6hrs continuous TV aerial use.			
LNB Connection		13V +/-0.1V, 250mA max (most modern LNB's are 75-150mA)			
Frequency Response		TV - 470-790Mhz LNB - 950-2100Mhz			
Sensitivity		TV input, 5 TV Channels / MUX's, +/-2dB μ V, 75 Ω			
1 LED	44dBµV	Low signal, could be background noise / limited TV services			
2 LED's	47dBµV	Low signal, not all TV services may be available			
3 LED's	51dBµV	Minimum signal, not all TV services may be available			
4 LED's	54dBµV	Minimum signal, not all TV services may be available			
5 LED's	59dBµV	Optimum signal			
6 LED's	61dBµV	Optimum signal			
7 LED's	64dBµV	Optimum signal			
8 LED's	68dBµV	Optimum signal			
9 LED's	71dBµV	Optimum signal			
10 LED's	74dBµV	Optimum signal			
11 LED's	78dBµV	Optimum signal			
12 LED's	81dBµV	Strong signal, attenuation may be required.			

12 VOLT LEISURE RANGE Easy Tune & Easy Boost



Easy-Tune 12/24V Signal Booster with built in Signal Finder

A TRUE FIRST, the Easy-Tune is THE ONLY AMPLIFIER on the market with a fully functional 12 LED BUILT IN SIGNAL FINDER.

One unit allows you to:

- Align your aerial PERFECTLY
- Boost your TV/Radio signal (variable boost)
- Distribute TV/Radio signal to 2 or 4 outlets
- Visual indication of TV signal level

Easy-Boost 12/24V Signal Booster

The Easy-Boost is a simple, no-nonsense, variable boost, aerial amplifier and signal distribution unit, designed specifically for the leisure market for use in Caravans, Motor homes, Boats etc.

One unit allows you to:

- Boost your TV/Radio signal (variable boost)
- Distribute your TV/Radio signal to 2 or 4 outlets
- 12 Volt power cable and screw fixings included.



Part No	231-310	231-311	231-312	231-313				
Model	Easy Tune 4 Way	Easy Tune 2 Way	Easy Boost 4 Way	Easy Boost 2 Way				
Operating Voltage	10.5 to 28V DC $<$	2W (12 LED's LIT)	10.5 to 28	/ DC <1W				
Outlets	4	2	4	2				
Variable Gain	2-13db	5-19db	2-13db	5-19db				
Frequency Range	47	Mhz to 790Mhz (FM	/ DAB / TV) to all outle	ets				
Flatness	+/-1.5db	+/-1.5db	+/-1.5db	+/-1.5db				
Noise Figure	<2.9db	<2.9db	<2.9db	<2.9db				
Max. Output	101dBµV	104dBµV	101dBµV	104dBµV				
Power On Indication	Red LED	Red LED	Red LED	Red LED				
Signal Indication Sensitivity	(5 multiplexes) (6 LEDs = 65d	- 41 to 90dBμV, BμV on outlets)	-	-				
Weight	114 grams	113 grams	113 grams	112 grams				
Dimensions	165 x 55 x 27mm							

SDR Range Vari Gain with Eezi Fit



FRINGE are pleased to announce our new range of masthead amplifiers. Aimed specifically at today's and tomorrow's reception problems.

SDR stands for 'Super Dynamic Range' and guarantees correct operation with a maximum INPUT signal level at least $85dB\mu V$ (dependent on model) without overload.

This method of operation is far more demanding and requires an amplifier of exceptional performance to handle such a high signal at the input.

Other amplifiers are available with variable gain but our "Vari-gain" - SDR amplifiers differ from the rest in four important ways;

- 1. The input signal handling remains the same regardless of gain setting.
- 2. The frequency response stays within tolerance regardless of gain setting.
- 3. The noise figure remains the same within the variable gain range.
- All Fringe SDR amplifiers include the newly designed "Eezi-Fit" cable connection system which is far quicker and more reliable than an "F" connector.

EEZI-FIT Our newly designed cable connection system. After cable preparation, this unique, fully screened push fit connection system allows three cables to be terminated with two screws. In addition it offers a better connection and the screening factor of an "F" connector. Try it and you'll see how easy it is.

Part No	Model	Band O MHz	utlets	Gain	Flatness	Noise Figure	Max Input	Max Output	Power Requirement
203-141	SDR 5-15	470-790	1	5-15db	+/-1db	2.1db	88dBµV	$102 dB \mu V$	12V @ 35mA,
203-151	SDR 2-13/2	470-790	2	2-13db	+/-1db	2.2db	88dBµV	101dBµV	on any output
203-223	SDR Outdoor 3	470-790	3	3-13db	+/-1.5db	2.4db	85dBµV	98dBµV	
203-225	SDR Outdoor 4	470-790	4	2-12db	+/-1.5db	2.4db	85dBµV	97dBµV	12V @45mA,
203-227	SDR Outdoor 5	470-790	5	1-10db	+/-1.5db	2.4db	85dBµV	95dBµV	+/-10% 0N
203-229	SDR Outdoor 4+1	470-790	4@ 1@	0-10db 10-18db	+/-1.5db	2.4db	85dBμV	95/ 103dBμV	any output



SDR Range Fixed Gain with Eezi Fit



FRINGE are pleased to announce our new range of masthead amplifiers. Aimed specifically at today's and tomorrow's reception problems.

SDR stands for 'Super Dynamic Range' and guarantees correct operation with a maximum INPUT signal level at least $85 dB\mu V$ (dependent on model) without overload.

This method of operation is far more demanding and requires an amplifier of exceptional performance to handle such a high signal at the input.

EEZI-FIT Our newly designed cable connection system. After cable preparation, this unique, fully screened push fit connection system allows three cables to be terminated with two screws. In addition it offers a better connection and the screening factor of an "F" connector. Try it and you'll see how easy it is.



Part No	Model	Band MHz	Outlets	Gain	Flatness	Noise Figure	Max Input	Max Output	Power Requirement
203-161	SDR 13	470-790	1	13db	+/-1dB	2.1db	94dBµV	$107 dB \mu V$	
203-121	SDR 16	470-790	1	16db	+/-1dB	2.2db	88dBµV	$104 dB \mu V$	12V @ 35mA,
203-171	SDR 9/2	470-790	2	9db	+/-1dB	2.1db	94dBµV	103dBµV	+/-10 % 011
203-131	SDR 14/2	470-790	2	14db	+/-1dB	2.2db	88dBµV	$102 dB \mu V$	any output
203-222	SDR Outdoor 3	470-790	3	14db	+/-1dB	2.4db	85dBµV	99dBµV	
203-224	SDR Outdoor 4	470-790	4	13db	+/-1dB	2.4db	85dBµV	98dBµV	12V @ 45mA,
203-226	SDR Outdoor 5	470-790	5	11db	+/-1dB	2.4db	85dBµV	96dBµV	any output
203-228	SDR Outdoor 4+1	470-790	4 @ 1 @	11db 20db	+/-1.5dB	2.4db	85dBμV	96/ 103dBμV	ing surpur

Standard UHF Range

Four models are available in the U.H.F. range, all featuring low noise figures. Will enhance any U.H.F. T.V. signal at an economical cost.





Technical Specification

Part No	Model	Group	Channel No.	Gain	Flatness	Noise Figure
203-011	A1218	A	21 - 37	18db.	+ -1db.	1.9db.
203-021	B1216	В	35 - 53	16db.	+ -1db.	1.9db.
203-031	CD1213	CD	48 - 60	14db.	+ -1 db.	1.9db.
203-041	WB1214	WB	21 - 60	15db.	+ -1db.	1.9db.

Output on all models: Din $45004-100dB\mu\text{V}$

Power requirements: 12v. d.c. @ 15ma (use P1285)



Standard VHF Range



Two models are available in the V.H.F range, all feature low noise figures. The V.H.F. 1220-F.M. is suitable for the improvement of V.H.F./F.M. radio reception in Europe and the U.K. The V.H.F. 1220-3 is ideal for amplifying DAB signals in remote reception areas.

Technical Specification

Part No	Model	Group	Gain	Flatness	Noise Figure
204-021	VHF1220-FM	Band 2	20db.	+ -1db.	1.8db.
204-031	VHF1220-3	Band 3/DAB	20db.	+ -1db.	1.8db.

Output on all models: Din $45004 - 100dB\mu V$

Power requirements: 12v. d.c. @ 10ma (use P1285)



Super UHF Range

Four models are available in this range, all feature high gain and low noise figures.

Ample gain is available to overcome losses incurred in long cable runs, and passive splitting.





Technical Specification

Part No	Model	Group	Channel No.	Gain	Flatness	Noise Figure
202-011	A1228	А	21 - 37	28db.	+ -1.5db.	2.8db.
202-021	B1226	В	35 - 53	26db.	+ -1.5db.	2.8db.
202-031	CD1223	CD	48 - 60	23db.	+ -1.5db.	2.8db.
202-041	WB1222	WB	21 - 60	22db.	+ -1.5db.	2.8db.

Output on all models: Din 45004 – 98dBµV Power requirements: 12v. d.c. @ 32ma (use P1285)



MASTHEAD AMPLIFIERS Supreme UHF Range



Four models are available in this range, all feature very low noise figures, high gain and high output capability. From $35 dB\mu V$ of aerial signal much improved digital quality may be obtained.

Ideal head unit for Cascade systems.

Technical Specification

Part No	Model	Group	Channel No.	Gain	Flatness	Noise Figure	
201-011	A1230	А	21 - 37	30db.	+ -1.5db.	1.9db.	
201-021	B1228	В	35 - 53	28db.	+ -1.5 db.	1.9db.	
201-031	CD1225	CD	48 - 60	25db.	+ -1.5 db.	1.9db.	
201-041	WB1225	WB	21 - 60	25db.	+ -1.5 db.	1.9db.	

Output on all models: Din $45004-106dB\mu V$

Power requirements: 12v. d.c. @ 32ma (use P1285)



WB 22/2 & Cascade



The WB22/2 is a wide band U.H.F. amplifier with in-built low loss splitter. This enables two television sets to operate from one masthead amplifier. The power unit must be switched on to operate either T.V. In strong signal reception areas each leg may be split again using Fringe Inductive Splitters; this enables 2, 3 or 4 set reception.

The Cascade U.H.F. repeater amplifier is a through powered unit, designed to operate in conjunction with any Fringe masthead amplifier. This enables long coaxial cable runs to be used where the T.V. is remote from the aerial. Depending on the model of masthead, channel group, and aerial signal available a distance of 200 metres may be obtained, using standard grade coaxial cable, one masthead, and one Cascade amplifier. A distance of 800 metres may be obtained, by using distribution grade coaxial cable, and three Cascade amplifiers.

Part No 205-031 206-011 Model WB 22/2 Cascade Frequency Range 470-790MHz 470-790MHz 18db +/-1.5db 23db +/-1.5db Gain per leg 2.9db 3.5db Noise Figure Output 2 x 96dBµV per leg 102dBuV **UHF** Input CH21-60 470-790MHz CH21-60 470-790MHz Power Requirements 12v dc @ 14ma (use P1285) 12v dc @ 32ma (use P1285) **CE** Compliance Approved Approved





The P1285 series of power supplies is intended for indoor use only.

The P1285 series are to be used where 12V DC is to be sent via a coaxial down-lead to a masthead amplifier. Suffix 'F' indicates F connector version. Aerial connections: Connect the down-lead from the aerial amplifier to the socket marked 'amp' or 'amplifier' and the lead from the TV/Receiver to the socket(s) labelled 'output' or 'out 1' & 'out 2'

Technical Specification

Part No	Model	Output Sh Voltage P	ort Circuit rotection	Input Voltage	Plug Fuse	VHF/UHF thru loss	Power 'On' LED	Size mm
207-011	P1285	12V dc @ 85mA	Yes	230v AC 50Hz +/-10%	3A	40-790MHz <1db	Yes	110W x 76H x 40D
207-012	P1285F	12V dc @ 85mA	Yes	230v AC 50Hz +/-10%	3A	40-790MHz <1db	Yes	110W x 76H x 40D
207-031	P1285/2	12V dc @ 85mA	Yes	230v AC 50Hz +/-10%	3A	40-790MHz -3.5db	Yes	110W x 76H x 40D
207-032	P1285/2F	12V dc @ 85mA	Yes	230v AC 50Hz +/-10%	3A	40-790MHz -3.5db	Yes	110W x 76H x 40D

Suffix F - Available with F Connectors



SET BACK RANGE

Single and Multiple Outlets



A Range of aesthetically pleasing, flexible, indoor use amplifiers, designed to improve a poor signal, or boost a signal before a long cable run. Available in 1 to 4 way configurations, with option of high gain, wideband versions (Super) of the 1 and 2 Set variants. The Two and Three set models are intended where an aerial (UHF) signal is required to be split without degradation of the original signal. The Super



Set Back, if used with T6/14T splitter, can be used as a power splitting amplifier and thus provide distribution of VHF/UHF signals to 6 outlets.

A choice of IEC co-axial or industry standard 'F' type connectors is available to suit the preferences of the installer. Not compatible with Sky Pass.

Part No	208-011	208-021	209-011	209-081	208-041	208-051
Model	Set Back	2 Set	3 Set	4 Set	Super Set Back	Super 2 Set
Part No	208-011/F	208-021/F	209-011/F	209-081/F	208-041/F	208-051/F
Model	Set Back F	2 Set F	3 Set F	4 Set F	Super Set Back F	Super 2 Set F
U.H.F. only	CH.21 - 60, 470 - 790MHz	CH.21 - 60, .470 - 790MHz	-	-	-	-
VHF - UHF	-	-	47-790MHz	47-790MHz	47-790MHz	47-790MHz
Gain per socket	1 x 14db	2 x 9db	3 x 8db	4 x 7db	1 x 22db	2 x 19db
Noise figure	2.5db	3.3db	3.9db	3.9db	3.9db	3.9db
Output per socket	98dBµV	94dBµV	85dBμV	84dBµV	98dBµV	95dBµV
Band Width	CH.21 - 60, 470-790MHz	CH.21 - 60, 470-790MHz	VHF/UHF 470-790MHz	VHF/UHF 470-790MHz	VHF/UHF 470-790MHz	VHF/UHF 470-790MHz
Supply voltage			230v a.c. 50h	nz + -10%		
Power Consumption			2 Wa	atts		
Size		11	10mm L x 76m	m W x 40mm	D	
C.E. compliance			Appro	oved		

Technical Specification

Suffix F - Available with F Connectors



Mini 4 Range

The Mini 4 is a compact, indoor, mains operated amplifier, designed for domestic and commercial use. The unit enables one aerial to supply four outlets simultaneously.

The single input socket is suitable for V.H.F. radio or V.H.F. T.V. and wide band U.H.F. television. Provisions are available to line power any Fringe model Masthead Amplifier, where reception is poor.

The Mini 4-2UK is a compact, mains operated amplifier, designed for domestic and commercial use. The four outputs enable one aerial to supply four televisions and F.M. radios simultaneously. A separate input socket is available for FM radio.

The Mini 4-2 Export is ideal for both FM radio and DAB.





Part No	209-021	209-091	209-101
Model	Mini 4	Mini 4-2 UK	Mini 4-2 Export
Part No	209-021/F	209-091/F	209-101/F
Model	Mini 4 F	Mini 4-2 UK F	Mini 4-2 Export F
Frequency range	47-790MHz VHF/UHF	VHF 88-108MHz UHF 470-790MHz	VHF 47-230MHz UHF 470-790MHz
Gain per socket	7db +/- 1db	6.5db +/- 1db	6.5db
Flatness	+/- 1db	+/- 1db	+/- 1db
Noise figure	3.9db	VHF 4.4db UHF 4.9db	VHF 4.4db UHF 4.9db
Output per socket	84dBμV	84dBμV	84dBµV
Isolation between sockets	Not less than 24db		
Ideal input required	50dBµV to 65dBµV		
Supply voltage	230V AC 50 Hz +/- 10%	6 3 watts	
Masthead powering	Internal switch to supply Suitable for all Fringe ma	12V @ 35 m.a. stheads	
Fitted with non-rewireable 13A plug	With 3 amp fuse		
LED indicator	Indicates mains switched	d on	
Size	110mm W x 76mm H x 4	0 mm D	
Colour	White		
CE Compliant	Yes	Yes	Yes
Mounting	Two fixing hole tabs		

Technical Specification

Suffix F - Available with F Connectors



DISTRIBUTION AMPLIFIERS

LDU Range with F Connectors



Designed for domestic and commercial use, these amplifiers have two inputs for both VHF radio (FM/DAB) and UHF TV. 'Sky' set top box RF2 signals can be distributed via the UHF socket and if additional remote control 'eyes' are fitted between the outlets and TV, the amplifier will pass the remote control signals back to the satellite receiver. These amplifiers must be fitted indoors and are designed for continuous operation. The remote return path function has a 'test' LED that blinks in unison with the return path signal. This confirms passing of the remote control signal and hence a good cable connection between the LDU and the remote eye.

Part No	215-011/F	215-021/F	215-031/F		
Model	4 Way LDU	6 Way LDU	8 Way LDU		
VHF Frequency Range	88 - 235MHz	88 - 235MHz	88 - 235MHz		
UHF Frequency Range	47 - 790MHz CH21-60	47 - 790MHz CH21-60	47 - 790MHz CH21-60		
Return Path Freq. Range/Gain	5-30MHz / 0-3db	5-30MHz / 0-3db	5-30MHz / 0-3db		
Gain per socket	8db	8db	8db		
Flatness	VHF, +/-0.5db UHF, +/-1db	VHF, +/-0.5db UHF, +/-1db	VHF, +/-0.5db UHF, +/-1db		
Noise figure	VHF, <4.5db UHF, <3.5db	VHF, <4.5db UHF, <3.5db	VHF, <4.5db UHF, <3.7db		
Output per socket	95 dBµV	95 dBµV	95 dBµV		
Isolation	Typically 38db	Typically 38db	Typically 38db		
Maximum Input	87dBµV	87dBµV	87dBμV		
Mains Supply	230V AC	50 Hz +/- 10% 3 watts			
Fitted with non-rewireable 13A plug	V	Vith 3 amp fuse			
LED indicators	MAINS ON and TEST LED - see above				
Return Path Frequency Gain	5	5-30MHz/0-3db			
Remote Eye Power	9V @	10mA at each output			
Size	'F' socket version	207mm W x 96mm H x 62	1mm D		
Weight		700g			
Compliance	CE appr	oved, ROHS compliant			



6 Way, 7 Way, 8 Way, HOP & SHOP

These TV/FM and DAB Radio Distribution Amplifiers enables one aerial to supply up to 8 TV's/radios simultaneously. Freeview/DVD/Video may be distributed by these amplifiers, the NUT is a decided by

via the UHF input socket. In addition, a full output socket on the 7 Way version is provided so that up to 19 points may be served by adding two Fringe T6 splitter units (available separately).

The HOP/SHOP (High Output/Split High Output) amplifiers have a single/double



output that may be split to up to 18 outlets for the HOP and 24 outlets for the SHOP, using Fringe T6 splitter units (available separately).

On all models, provision is also available to line power any masthead amplifier connected to the UHF input. For indoor use only. These amplifiers are not suitable for Sky remote pass.

Part No		209-031	209-061	209-071	209-041	209-051		
Model		6 Way	7 Way	8 Way	High Output	Split H. Output		
Part No		209-031/F	209-061/F	209-071/F	209-041/F	209-051/F		
Model		6 Way F	7 Way F	8 Way F	High Output F	Split H. Output F		
VHF Frequency	Range, MHz	47 - 230	47 - 230	47 - 230	17 700	47 700		
UHF Frequency	Range, MHz	470 - 790	470 - 790	470 - 790	4/ - / 90	47 - 730		
Channels		21-60/1-13	21-60/1-13	21-60/1-13	1-60	1-60		
Gain per socket	t	6@7db	7@6.5db	8@6.5db	1@28db	2@24db		
Flatness	VHF UHF	+/-1.5db +/-1.5db	+/-1.0db +/-1.5db	+/-1.0db +/-1.5db	- +/-1.5db	- +/-1.5db		
Noise figure	VHF UHF	3.4db 3.8db	3.4db <3.8db	3.4db <3.8db	- 3.4db VHF/UHF	- 3.4db VHF/UHF		
Max. Output (DIN 45005) Sp	ours	$85\text{dB}\mu\text{V}$	85 dBµV	85 dBµV	107dBµV	103dBµV		
Side Rejection (Isolation)	Norst Case Typical	33db 38db	30db 36db	33db 38db	N/A	N/A		
Ideal Input requ	uired		50dBµV min	and should not	exceed 79dBµV			
UHF Masthead		Suitat	External switch to supply 12v DC @ 35ma. Suitable for all Fringe mastheads. Shipped in the OFF position					
Mains Supply			230V A	C 50 Hz +/- 10	0% 3 watts			
Fitted with non-	-rewireable 1	3A plug	plug With 3 amp fuse					
Two LED indica	tors		Indicates MAINS ON and LINE POWER on					
Fixing			Two ta	bs, fixing centre	es 193mm			
Size			207mr	n W x 96mm H	x 51mm D			
Weight				700g				
CE Compliance				Approved				

DISTRIBUTION AMPLIFIERS

T6 Splitter Range



A range of resistive splitter units, for use with Fringe 7 Way – High Output – Split High Output and Super Setback.

Three models of attenuation are available, fitted with sockets. Supplied with application notes.

Technical Specification

Part No	Model	Tap down	Isolation	Through Loss
210-011	T6/21	-21db.	40db.	3.5db.
210-021	T6/17	-17db.	34db.	3.5db.
210-031	T6/14ST	-14db.	25db.	Terminal

Figures quoted assume all outputs are terminated 75ohm

Frequency range	-	0 - 860MHz
Fixing	-	Two screw holes
Colour	-	White 1 Gang mounting frame
Fixing area	-	88mm L x 88mm W.
C.E. compliance	-	Approved



Splitters



2 Way External Inductive Combiner/Splitter

This unit is an ultra-wideband low loss outdoor unit for combining and splitting VHF & UHF signals. It has a low insertion loss and good isolation between inputs.

3/4 Way External Inductive Splitter

The Fringe 3 and 4 Way external inductive splitters are ultra-wideband, low loss units for splitting VHF and UHF signals to up to 4 TV's/Radios. In strong signal areas they provide easy signal distribution, without the need for additional masthead amplification. With Eezi-Fit connections.



Part No	211-021	211-411	211-412	211-321
Model	2 Way Inductive	3 Way Eezi-Fit	4 Way Eezi-Fit	2 Way Screened
Frequency Range VHF-UHF	:	40Mhz to 79	0Mhz wideband	
Average Insertion Loss	-3.5db	-	-	-3.5db
Through Loss	-	1 -7.5db 2 -7.5db 3 -4db	-7.5db	-
Side Rejection	20db	1 to 2 -18db	$\begin{array}{rrr}1 \text{ to } 2 \And 3 \text{ to } 4 & -18 \text{db} \\3 \text{ or } 4 \text{ to } 1 \text{ or } 2 & -23 \text{db}\end{array}$	20db
DC Pass	Common to 1	Common to any	Common to any	Common to 1



PASSIVE ACCESSORIES

Filters and Joint Box



These filters have been designed to help eliminate signals outside the specified group of the filter.

Example: The group B filter will reduce group C- D, group A and VHF signals.

They are useful when a strong out of band signal is present and needs to be reduced to prevent overload, or to prevent reception of unwanted signals from distant transmitters out of region.

The Group Pass Filters and Joint Box have THRU DC power and although they can be used between the aerial and amplifier it is preferable to use them after the amplifier.

Model	Pass Channels	Rejection of other channels	Through Loss
Group A	21 - 34	>15db	Not exceeding 2db
Group B	39 - 53	>15db	Not exceeding 2db
Group CD	48 - 60	>15db	Not exceeding 2db
Group 21-37	52 - 60	> 15 db	Not exceeding 2db
Joint Box	0 - 790MHz	N/A	0.25db
Model	Pass Band	Rejection	Average through loss
Tetra UHF High Pass	UHF TV 470 - 790MHz	Tetra 380-400MHz typical 35db guaranteed 30db	-1db
4 G Filter	5 - 782MHz	CH60 -9.5db @ 786MHz LTE Downlink 791-821MHz -15dB to -32 LTE Uplink 832-862MHz -38dB to -51	<-5db db
	Model Group A Group D Group 21-37 Joint Box Model Tetra UHF High Pass 4 G Filter	Model Pass Channels Group A 21 - 34 Group B 39 - 53 Group CD 48 - 60 Group 21-37 52 - 60 Joint Box 0 - 790MHz Model Pass Band Tetra UHF High Pass UHF TV 470 - 790MHz 4 G Filter 5 - 782MHz	Model Pass Channels Rejection of other channels Group A 21 - 34 >15db Group B 39 - 53 >15db Group CD 48 - 60 >15db Group 21-37 52 - 60 >15db Joint Box 0 - 790MHz N/A Model Pass Band Rejection Tetra UHF High Pass UHF TV 470 - 790MHz Tetra 380-400MHz typical 35db guaranteed 30db 4 G Filter 5 - 782MHz CH60 -9.5db @ 786MHz LTE Downlink 791-821MHz - 15dB to -32 LTE Uplink 832-862MHz - 38dB to -51

Diplexers UHF – UHF

Part No.	Description	From Ch to Ch
211-031	A to E	21-34 to 39-60
211-061	A to E thru A	21-34 to 39-60
211-071	A to E thru E	21-34 to 39-60
211-041	K to CD	21-47 to 48-60
211-081	K to CD thru K	21-47 to 48-60
211-091	K to CD thru CD	21-47 to 48-60
211-121	Special K to CD 50/52	21-50 to 52-60
211-131	Special K to CD 50/52 thru K	21-50 to 52-60
211-141	Special K to CD 50/52 thru CD	21-50 to 52-60
211-142	Special K to CD 50/52 thru both	21-50 to 52-60
211-181	A+37 to E	21-37 to 40-60
211-191	A+37 to E thru A	21-37 to 40-60
211-201	A+37 to E thru E	21-37 to 40-60

The diplexers above are supplied as electromagnetically benign apparatus. They should not be used where installation will compromise the integrity of a system. i.e. MATV etc. CE marked product should be used if in doubt.



Diplexers, Eezi-Fit UHF-UHF screened and switchable DC pass. CE compliant.

211-124	A to E switchable both	21-34 to 39-60
211-126	A+37 to E switchable both	21-37 to 40-60
211-128	Special K to CD 46/48 switchable both	21-46 to 48-60
211-125	Special K to CD 50/52 switchable both	21-50 to 52-60
211-127	Special K to CD 51/53 switchable both	21-51 to 53-60

Other combinations available. Please call us with your requirements.



UHF- UHF diplexers are no longer a stock item and are only made to order. Orders for a specific diplexer must be in multiplies of 20 units and allow a lead time of 4 weeks from placement of order to dispatch.



UHF Channel Allocation

-	PSB 1	PSB 2	PSB 3	COM 4	com 5	COM 6	Aerial Group	Polarisation
Programme providers	BBC 1,2,3,4	ITV 1,2 Ch 4,5	HD Channels	ITV 3 Drama Quest	Sky News Dave Travel	BT Sport 4 Music Yesterday		
STATION	CHANNEL	. NUMBER	1					
Borders								
CALDBECK	25	28	30	23	26	29	А	Н
Haltwhistle	59	50	55				CD	۷
Kendal	60	53	57				CD	۷
Whitehaven	43	40	46				В	۷
CALDBECK SCOTLAND	27	24	22				А	Н
Cambret Hill	44	41	47				В	Н
SELKIRK	50	59	55	57	53	60	C/D	Н
Central Scotland								
BLACK HILL	46	43	40	41	44	47	В	Н
Torosay	28	25	22	23	26	29	А	۷
Glengorm	44	41	47				В	٧
DARVEL	22	25	28	23	26	29	А	Н
Millburn Muir	42	45	39				В	٧
Rosneath	49	58	54	53	57	60	CD	H/V
CRAIGKELLY	27	24	21	42	45	39	WB	Н
ANGUS	60	53	57	54	58	49	CD	Н
Perth	39	42	45				В	٧
Tay Bridge	41	47	44				В	٧
East Anglia								
TACOLNESTON	55	59	50	42	45	39	E/WB	Н
Lowestoft	58	60	56				CD	٧
Norwich Central	46	43	52				В	٧
Kings Lynn	40	46	43				В	٧
Wells next the Sea	57	51	56				CD	٧
West Runton	26	23	29				А	٧
Aldeburgh	28	23	25				А	٧
SUDBURY	44	41	47	58	60	56	WB	Н
SANDY HEATH	27	24	21	51	52	48	WB	Н

Type in capitals indicates a main transmitter. Generally transmitters of less than 200 watts ERP are not included.

Further information may be obtained from the following web sites www.ukfree.tv www.ofcom.org.uk



ADDENDUM

UHF Channel Allocation

	PSB 1	PSB 2	PSB 3	COM 4	COM 5	COM 6	Aerial Group	Polarisation
Programme providers	BBC 1,2,3,4	ITV 1,2 Ch 4,5	HD Channels	ITV 3 Drama Quest	Sky News Dave Travel	BT Sport 4 Music Yesterday		
STATION				CHAN	NNEL NUM	BER		
Grampian & Highland	s							
DURRIS	28	25	22	23	26	29	А	Н
Bressay	28	25	22	27	24	21	А	۷
Collafirth Hill	45	42	39				В	۷
Gartley Moor	58	49	54				CD	۷
Peterhead	50	59	55				CD	٧
Rosehearty	44	41	47				В	٧
EITSHAL	26	23	29	25	22	28	А	Н
KEELYLANG HILL	46	43	40	42	45	39	В	Н
KNOCKMORE	26	23	29	53	57	60	WB	Н
ROSEMARKIE	45	39	42	43	46	40	В	Н
RUMSTER FOREST	27	24	21	30	59	55	WB	Н
Skriaig	27	24	21				А	٧
London and South Ea	st of Engl	and						
CRYSTAL PALACE	23	26	30	25	22	28	А	Н
Guildford	43	46	40	48	52	49	В	٧
Hemel Hempstead	44	41	47	50	59	55	WB	٧
Reigate	60	57	53	21	24	27	WB	٧
BLUEBELL HILL	46	43	40	45	39	54	WB	Н
DOVER	50	51	53	55	59	48	CD	Н
Midlands								
OXFORD	53	60	57	50	59	55	CD	Н
RIDGE HILL	28	25	22	21	24	27	А	Н
SUTTON COALFIELD	43	46	40	42	45	39	В	Н
Brierley Hill	60	57	53	50	59	55	CD	٧
Bromsgrove	26	23	30	41	44	47	WB	٧
Fenton	24	27	21	25	22	28	А	٧
Lark Stoke	26	23	30	41	44	47	WB	٧
Malvern	53	57	60	50	59	55	CD	٧
THE WREKIN	26	23	30	41	44	47	WB	Н
WALTHAM	49	54	58	29	56	57	WB	Н
Nottingham	27	24	21	51	52	48	WB	٧
Stanton Moor	59	50	55				CD	٧

UHF Channel Allocation

	PSB 1	PSB 2	PSB 3	COM 4	COM 5	COM 6	Aerial Group	Polarisation
Programme providers	BBC 1,2,3,4	ITV 1,2 Ch 4,5	HD Channels	ITV 3 Drama Quest	Sky News Dave Travel	BT Sport 4 Music Yesterday		
STATION				CHA	NNEL NU	MBER		
North East								
BILSDALE	26	29	23	43	46	40	WB	Н
Whitby	55	59	50				CD	٧
CHATTON	45	42	39	41	44	47	В	Н
PONTOP PIKE	58	54	49	50	59	55	CD	Н
Fenham	27	24	21	25	22	28	А	٧
Newton	26	29	23				А	۷
Weardale	44	47	41				В	٧
Northern Ireland								
DIVIS	27	21	24	23	26	29	А	Н
Kilkeel	45	42	39				В	۷
Larne	45	42	39				В	٧
BROUGHER MOUNTAIN	28	22	25	21	24	27	А	Н
Camlough	59	55	50				CD	٧
Newcastle	50	55	59				CD	٧
Strabane	45	42	39				В	٧
LIMAVADY	50	59	55	54	58	49	CD	Н
Londonderry	44	41	47				В	٧
North West								
DOUGLAS	53	60	57				CD	V
WINTER HILL	50	59	54	58	49	55	CD	Н
Haslingden	26	23	29				А	٧
Lancaster	27	24	21	25	28	22	А	٧
Pendale Forest	28	25	22	27	21	24	А	٧
Saddleworth	45	39	42	51	52	48	В	٧
Storeton	28	25	22	23	26	29	А	٧
South of England								
FREMONT POINT	44	41	47				В	Н
HANNINTON	45	42	39	41	44	47	В	Н
HEATHFIELD	52	49	47	42	44	41	В	Н
Hastings	25	28	22	23	26	30	А	V
MIDHURST	55	56	58	54	59	50	CD	Н
ROWRIDGE	24	27	21	25	22	28	А	H/V

Type in capitals indicates a main transmitter. Generally transmitters of less than 200 watts ERP are not included.

Further information may be obtained from the following web sites www.ukfree.tv www.ofcom.org.uk

ADDENDUM

UHF Channel Allocation

	PSB 1	PSB 2	PSB 3	COM 4	COM 5	COM 6	Aerial Group	Polarisation
Programme providers	BBC 1,2,3,4	ITV 1,2 Ch 4,5	HD Channels	ITV 3 Drama Quest	Sky News Dave Travel	BT Sport 4 Music Yesterday		
STATION				CHAN	NNEL NUM	BER		
South of England con	tinued							
Findon	44	41	47				В	۷
Salisbury	57	60	53	50	59	55	CD	۷
Tunbridge Wells	52	49	47	42	44	41	В	۷
Whitehawk Hill Brighton	60	53	51	57	56	48	CD	۷
Wales								
BLAENPLWYF	27	24	21	25	22	28	А	Н
CARMEL	60	53	57	54	58	49	CD	Н
Llandrindod Wells	39	42	45				В	۷
Kilvey Hill	23	26	29	25	22	28	А	٧
LLANDDONA	57	60	53	43	46	40	WB	Н
Arfon	41	44	47				В	٧
Conway	47	41	44				В	٧
Long Mountain	60	53	57				CD	٧
MOEL Y PARC	45	39	42	51	52	48	В	Н
Storeton	57	53	60				CD	Н
PRESELI	43	46	40	42	45	39	В	Н
WENVOE	41	44	47	42	45	39	В	Н
Abergavenny	39	42	45				В	٧
Mynydd Machen	23	26	29				A	٧
Pontypridd	25	22	28				A	٧
Rhondda	23	26	29				A	H/V
West Country								
MENDIP	49	54	58	48	56	52	CD	Н
Bristol I.C.	41	44	47	42	45	39	В	٧
Bristol K.W.	43	40	46	53	57	60	WB	٧
BEACON HILL	60	53	57	42	45	51	WB	Н
CARADON HILL	28	25	22	21	24	27	A	Н
Plympton	54	49	58	42	45	56	WB	٧
HUNTSHAW CROSS	50	59	55	48	52	56	DC	Н
REDRUTH	44	41	47	48	52	51	В	Н
STOCKLAND HILL	26	23	29	25	22	28	А	Н
Budleigh Salterton	60	53	57				CD	٧
Weymouth	47	44	41				В	۷

UHF Channel Allocation

	PSB 1	PSB 2	PSB 3	COM 4	COM 5	COM 6	Aerial Group	Polarisation
Programme providers	BBC 1,2,3,4	ITV 1,2 Ch 4,5	HD Channels	ITV 3 Drama Quest	Sky News Dave Travel	BT Sport 4 Music Yesterday		
STATION				CHANNEL	NUMBER			
Yorkshire								
BELMONT	22	25	28	30	53	60	WB	Н
Chesterfield	26	23	29	43	46	40	WB	٧
EMLEY MOOR	47	44	41	51	52	48	В	Н
Keighley	49	58	54	57	53	60	CD	٧
Skipton	39	45	42				В	٧
Warfedale	25	22	28				А	۷
OLIVERS MOUNT	57	60	53	54	58	49	CD	٧
SHEFFIELD	27	25	21	42	45	39	WB	۷

Type in capitals indicates a main transmitter. Generally transmitters of less than 200 watts ERP are not included.

Further information may be obtained from the following web sites www.ukfree.tv www.ofcom.org.uk

RTE Saorview Digital TV Channels

CHANNEL NUMBER						
Station	Area	Mux 1	Mux 2	Aerial Group	Polarisation	
Cairn Hill	Co. Longford	47	44	В	Н	
Clermont Cairn	Co. Louth	52	56	CD	V	
Dungarvan	Co. Waterford	55	59	CD	Н	
Hollywell Hill	Co. Donegal	30	33	А	Н	
Kippure	Co. Wicklow	54	58	CD	Н	
Maghera	Co. Clare	48	55	CD	Н	
Mount Leinster	Co. Wexford	23	26	А	Н	
Mullaghanish	Co. Kerry	21	24	А	Н	
Spur Hill	Co. Cork	45	49	В	Н	
Three Rock	Dublin	30	33	А	Н	
Truskmore	Co. Sligo	53	57	CD	Н	
Woodcock Hill	Co. Clare	47	44	В	Н	

Only main transmitters are shown

For more information: www.saorview.ie

www.2rn.ie



Channel Centre Frequencies

Channel	$\label{eq:Channel Width = +/-4MHz} Centre$	Channel	${\rm Channel}~{\rm Width}=+/{\rm -4MHz}~{\rm Centre}$
21	474	41	634
22	482	42	642
23	490	43	650
24	498	44	658
25	506	45	666
26	514	46	674
27	522	47	682
28	530	48	690
29	538	49	698
30	546	50	706
31	554	51	714
32	562	52	722
33	570	53	730
34	578	54	738
35	586	55	746
36	594	56	754
37	602	57	762
38	610	58	770
39	618	59	778
40	626	60	786



db to Voltage Conversion

db. mv.	UV.	db. uv.	db. mv.	mv.	db. uv.
-40	10.00	20	+11	3.55	71
-39	11.22	21	+12	3.98	72
-38	12.59	22	+13	4.47	73
-37	14.13	23	+14	5.01	74
-36	15.85	24	+15	5.62	75
-35	17.78	25	+16	6.31	76
-34	20.00	26	+17	7.08	77
-33	22.40	27	+18	7.94	78
-32	25.10	28	+19	8.91	79
-31	28.20	29	+20	10.00	80
-30	31.60	30	+21	11.22	81
-29	35.50	31	+22	12.59	82
-28	39.80	32	+23	14.13	83
-27	44.70	33	+24	15.85	84
-26	50.10	34	+25	17.78	85
-25	56.20	35	+26	19.95	86
-24	63.10	36	+27	22.39	87
-23	70.80	37	+28	25.12	88
-22	79.40	38	+29	28.18	89
-21	89.10	39	+30	31.62	90
-20	100.00	40	+31	35.48	91
-19	112.20	41	+32	39.81	92
-18	125.90	42	+33	44.67	93
-17	141.30	43	+34	50.12	94
-16	158.50	44	+35	56.23	95
-15	177.80	45	+36	63.10	96
-14	199.50	46	+37	70.79	97
-13	223.90	47	+38	79.43	98
-12	251.20	48	+39	89.13	99
-11	281.80	49	+40	100.00	100
-10	316.20	50	+41	112.20	101
-9	354.80	51	+42	125.90	102
-8	398 10	52	+43	141.30	103
-7	446.70	53	+44	158.50	103
-6	501.20	54	+45	177.80	105
-5	562.30	55	+46	199.50	106
-4	631.00	56	+47	223.90	107
-3	707 90	57	+48	251.20	108
-2	794.30	58	+49	281.80	109
-1	891.30	59	+50	316.20	110
0	1 00mv	60	+51	354 80	111
+1	1 12	61	+52	398 10	112
+2	1.26	62	+53	446 70	113
+3	1 41	63	+ 54	501.20	114
+4	1.58	64	+55	562.30	115
+5	1.00	65	+56	631.00	116
+6	2 00	66	+57	707.90	117
+7	2.30	67	+58	794 30	118
+8	2 51	68	+59	891.30	110
+9	2.82	69	+60	1000.00	120
+ 10	3.16	70	100	1000.00	120
- 10	5.10	70			

Details of Specifications

All products listed are 75ohms and measurements are taken at that impedance.

OUTPUT LEVELS

These are to the DIN 45004/B 3 tone test at -60 IMD.

NOISE FIGURES

These are the average of five measurements taken across the full specified bandwidth of the amplifier. The noise figure variation across the bandwidth does not exceed +-1db. Measurements are made using a direct reading meter with a modulated solid state noise source.

LIMITS OF ACCURACY

Measurements are taken from random production samples and may deviate by the accuracy of the instruments used. Variations in production can occur but a worst case should not degrade specification by more than 1db. A list of current instruments is available on request.

All products are 100% tested for gain/loss and masthead amplifiers are also given a subjective performance test on a T.V.

CE STANDARDS

Parts of EN50082-1 Parts of EN50081-1 EN55014 Where applicable EN60056

CF

Fringe Electronics Ltd. reserve the right to improve and change specifications without notice.



ADDENDUM

Eezi-Fit from Fringe

The unique new push fit connection from Fringe.

It's as easy as 123

1 Prepare the cable. There is a handy strip guide on the can label.







3 Fully tighten the clamp screws. If subsequent cable removal is required, simply bush the white button and pull the cable out of the fitting.





Try Fringe We won't let you down

More SDR amplifiers with Eezi-Fit are on the way from Fringe Manufactured in the UK

ADDENDUM





U.H.F.	RECEIVING	AERIAL
GROUPS	AND COLOU	R CODES
CHANNELS	GROUP	COLOUR
21-37	Α	RED
35-53	В	YELLOW
48-60	CD	GREEN
35-60	E	BROWN
21-60	W	WHITE
21-47	К	-

GUARANTEE TERMS

All fringe products are unconditionally guaranteed for a period of three years from date of purchase. This is on a 'return to base' basis. Please contact us if you would like to claim repair or replacement under these terms. Statutory rights are not affected. All Fringe manufactured product contain coded date of manufacture information.

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DEALERS STAMP

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