

product data ● proSPL-TAP

Splitters and Taps

Part of the *PRO*ception core range for the professional aerial and system installer, these fully-screened network passive components cover most requirements in small and medium-sized MATV and IRS systems.

These products are suitable for indoor use only, unless mounted in a suitable waterproof and condensation-free housing.

5 - 862 MHz Ranges

- Fully-screened diecast housings with 'F' connectors throughout.
- 2-, 3-, 4-, 6- and 8-way splitters/combiners, with line-power pass on some models.
- 1-, 2-, 4-, and 8-way taps, each available in a choice of four tap loss values.
- 8-way 'multi-tap' with graded tap values between 12.5 dB and 19.5 dB ideal for feeding outlets in a star- or bush-wired system with a range of drop-cable lengths.



Technical data

Due does ee de	Ways	Maximum insertion loss			Minimum isolation ²			Power
Product code		HF ¹	VHF ¹	UHF ¹	HF ¹	VHF ¹	UHF ¹	pass ³
Splitters / combiners 5 862 MHz								
proSPL204	2	4.0 dB	3.7 dB	4.2 dB	10 dB	22 dB	18 dB	Yes
proSPL306	3	6.3 dB	6.5 dB	7.0 dB	12 dB	20 dB	17 dB	Yes
proSPL408	4	7.5 dB	7.7 dB	8.0 dB	15 dB	20 dB	17 dB	Yes
proSPL611	6	11.0 dB	11.0 dB	11.5 dB	18 dB	18 dB	16 dB	No
proSPL812	8	12.0 dB	12.0 dB	12.5 dB	18 dB	22 dB	18 dB	No

Notes

- 1. See general data overleaf for frequency band definitions.
- 2. Isolation figures apply with a good 75 Ω match at the common port.
- 3. Products with power pass capability have DC continuity between all ports. Power pass rating 24 V max. AC/DC at 400 mA max. (100 mA on type proSPL408). Products without power pass capability have all ports DC-blocked, except for the common port on type proSPL812 which is DC-grounded and may be damaged if powered.

Technical data

Product code	Ways/dB	Tap loss ¹	Max. trunk through loss		
Product code	ways/ub	1ap 1055	HF-VHF ²	UHF ²	
1-way taps				5 862 MHz	
proTAP108	1/8	8.5 dB	2.5 dB	2.8 dB	
proTAP112	1/12	12.5 dB	1.1 dB	1.6 dB	
proTAP116	1/16	16.0 dB	1.0 dB	1.3 dB	
proTAP120	1/20	20.0 dB	1.0 dB	1.3 dB	
2-way taps				5 862 MHz	
proTAP208	2/8	8.5 dB	4.0 dB	4.5 dB	
proTAP212	2/12	12.5 dB	1.8 dB	2.0 dB	
proTAP216	2/16	16.0 dB	1.2 dB	1.7 dB	
proTAP220	2/20	20.0 dB	1.2 dB	1.7 dB	
4-way taps				5 862 MHz	
proTAP408	4/8	7.5 dB	Internally	terminated	
proTAP412	4/12	11.0 dB	3.6 dB	4.1 dB	
proTAP417	4/17	17.0 dB	1.7 dB	1.9 dB	
proTAP420	4/20	20.0 dB	1.0 dB	1.5 dB	
8-way taps				5 862 MHz	
proTAP812	8/12	12.0 dB	Internally	terminated	
proTAP814	8/14	14.0 dB	3.7 dB	4.1 dB	
proTAP817	8/17	17.0 dB	2.5 dB	2.7 dB	
proTAP820	8/20	20.0 dB	1.2 dB	1.9 dB	
8-way multi-tap				5 862 MHz	
proTAP817M	8/various	Note 3	9.8 dB ⁴	9.0 dB	



Notes

- 1. Worst-case tolerance on tap loss is \pm 1.5 dB.
- 2. See general data overleaf for frequency band definitions.
- 3. This product has eight graded tap outputs with tap loss values as follows: 12.5, 13.5, 14.5, 15.5, 17.0, 17.5, 19.0 and 19.5 dB.
- 4. 9.0 dB over the band 47 .. 230 MHz.
- 5. Important: these items do not have power-pass capability. Some ports are not DC-blocked; reverse powering may cause damage.



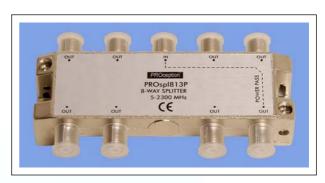


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5 - 2300 MHz Range

- Fully-screened diecast housings with 'F' connectors throughout.
- 2-, 3-, 4-, 6- and 8-way splitters / combiners, all with linepower pass capability to one output – ideal for splitting LNB outputs to feed two or more multiswitches.
- 2-way taps in a choice of four tap values, with trunk linepower pass capability.



Technical data

Product code	Ways	Maximum insertion loss				Minimum isolation ²			
		HF ¹	VHF ¹	UHF ¹	SAT ¹	HF ¹	VHF ¹	UHF ¹	SAT ¹
Splitters / combiners 5 2300							2300 MHz		
proSPL204P	2	4.5 dB	4.0 dB	4.7 dB	5.8 dB	10 dB	20 dB	20 dB	16 dB
proSPL308P	3	7.5 dB	6.8 dB	7.5 dB	10.0 dB	16 dB	20 dB	20 dB	16 dB
proSPL409P	4	8.5 dB	8.3 dB	9.0 dB	11.0 dB	17 dB	20 dB	20 dB	15 dB
proSPL612P	6	12.5 dB	11.5 dB	12.0 dB	16.0 dB	20 dB	20 dB	20 dB	16 dB
proSPL813P	8	13.5 dB	13.2 dB	14.0 dB	17.5 dB	20 dB	20 dB	20 dB	15 dB

Notes

- 1. See general data table below for frequency band definitions.
- 2. All isolation figures apply with a good 75 Ω match at the common port.
- All products have power pass capability between the common port and one output port. All other output ports are DC-blocked. Power pass rating 24 V max. AC/DC at 1 A max.



Technical data

Product code	Ways/dB	Tap loss ¹		Max. trunk t	hrough loss		
		HF-UHF ²	SAT ²	HF ²	VHF ²	UHF ²	SAT ²
2-way taps						5.	. 2300 MHz
proTAP210P	2/10	10.5 dB	12.0 dB	3.5 dB	3.0 dB	3.4 dB	4.2 dB
proTAP212P	2/12	12.0 dB	13.0 dB	3.5 dB	3.0 dB	3.4 dB	4.2 dB
proTAP215P	2/15	15.0 dB	15.5 dB	2.7 dB	2.0 dB	2.5 dB	3.2 dB
proTAP220P	2/20	20.0 dB	20.0 dB	2.0 dB	1.5 dB	2.1 dB	3.3 dB

Notes

- 1. Worst-case tolerance on tap loss is \pm 3 dB.
- 2. See general data table below for frequency band definitions.
- 3. All products have power pass capability between the trunk ports. All tap ports are DC-blocked. Power pass rating 24 V max. AC/DC at 1 A max.

General data

	HF (return)	VHF	UHF	SAT (IF)			
Frequency bands on this data sheet	5 47 MHz	47 230 MHz	470 862 MHz	950 2050 MHz ¹			
Characteristic impedance	75 Ω						
Connector type	'F' (IEC 60169-24)						
Operating temperature range	-10 +40 °C						
EMC standard	BS EN 50083-2:2006						

Notes

- 1. All products on this page are usable to 2300 MHz with slightly increased insertion loss.
- 2. Ports indicated as 'DC-blocked' may be reverse powered (24 V AC/DC max.) without risk of damage.

Performance data given are typical unless otherwise stated, and are not intended to constitute a contractually binding specification. Proception Limited reserves the right to change product designs and specifications without prior notice.

