

4-way tap

ET-4-20+

Features:

- Cenelec Class A screening effectiveness
- ModemSafe® secured
- High return loss
- Excellent intermodulation distance
- SCTE compliant F-connectors
- Easy to install: in horizontal- and vertical way
- Housing has top sided ports



Description

The Ecoline+ series of Splitters & Taps have been especially developed to meet the needs of the European market and distinguishes itself from any other range in the business. With the Ecoline+ a new standard of splitters and taps has been set fully equipped with a number of innovative technologies. The products within the Ecoline range excel both in electrical and mechanical performance. It is a really complete series, containing all housing types that could be found in the previous Ecoline and Ruby-line series. It has an easy to install design with a compact housing of which some models are stackable. All F-connector contacts meet the SCTE standards (ANSI SP 406-1998) and are of unequalled quality. The material of the inner spring has been designed specially for connecting coax cables with an inner core of 0.56 to 1.20 mm, even when varying thicknesses are connected after each other.

The intermodulation performance, which is an important factor in high level return path signals, has been greatly improved through a newly developed ferrite and specially designed circuits. The high frequency shielding exceeds Class A requirements (CENELEC EN-50083-2:1998) over the whole frequency range from 5 MHz to 1000 MHz. Next to that there are additional options as Solder back or T/G back cover, round F-pin, epoxy sealed F connectors, Ingress Safe, NiSn plating etc. Extensive research in a number of labs worldwide has shown that NiSn plating is the best plating material for products used in the CATV networks. The most important feature is the prevention against Common Path Distortion (CPD), the nightmare of every Cable operator.

Specifications

V1 feb 18, 2004

	Port	Range	Min	Typical	Max	Units	Remark	Margin
Frequency Range			5		1000	MHz		
Connectors	In/Out/Tap			F-female				
Equipment Approval				CE				

Ordering Information

ET-4-20+	4-way tap	Article number:	10430046
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Detailed product Info

Modem Safe



All Ecoline+ products are equipped with Modem Safe® technology. Modem Safe® is a highly effective surge protection solution. It blocks high level surge pulses and unwanted DC voltage, thus protecting sensitive equipment. Besides the blockage of these surges and voltages, it also prevents the internal ferrites becoming magnetized. When ferrite material is magnetized, the intermodulation behaviour becomes worse resulting in an increase of passive intermodulation products. Thanks to the Modem Safe® circuitry, the intermodulation behaviour of the Ecoline-splitters is excellent and will not deteriorate over time like common splitters.

Specifications

V1 feb 18, 2004

	Port	Range	Min	Typical	Max	Units	Remark	Margin
Insertion Loss	In -> Out	5 MHz < F < 40 MHz	1.9	2.6	3.3	dB		
		40 MHz < F < 470 MHz	1.4	2.0	2.6	dB		
		470 MHz < F < 862 MHz	1.7	2.3	2.9	dB		
		862 MHz < F < 1000 MHz	1.8	2.6	3.4	dB		
Tap Loss	In -> Tap	5 MHz < F < 1000 MHz	19.0	20.0	21.0	dB		
Return Loss	In/Out/Tap	5 MHz < F < 10 MHz	20			dB		
		10 MHz < F < 862 MHz	22			dB	1	
		862 MHz < F < 1000 MHz	14			dB		
Isolation	Out -> Tap	5 MHz < F < 10 MHz	31			dB		
		10 MHz < F < 862 MHz	39			dB	1	
	Tap -> Tap	862 MHz < F < 1000 MHz	32			dB		
		5 MHz < F < 10 MHz	36			dB		
Screening Effectiveness	-	10 MHz < F < 862 MHz	40			dB	1	
		862 MHz < F < 1000 MHz	30			dB		
		5 MHz < F < 300 MHz	85	95		dB	2	
		300 MHz < F < 470 MHz	80	90		dB	2	
Intermodulation p+q (min)	All ports DC blocked	470 MHz < F < 1000 MHz	75	85		dB	2	
						dB	3	
					115			

Remarks	
1	F > 40 MHz -1.5 dB/oct
2	Transfer impedance method according IEC 60728-2 (5-30 MHz) Absorption clamp method according IEC-60728-2 § 4.4 (30-1000 MHz)
3	Two carriers (50 & 55MHz), out/ tap to in, @ 120dBµV, after 10 pulses (25V/1,2µS risetime/500µS duration) at all ports.