

ET-4 port tap range



- High quality 4-way installation taps
- Modem Safe™ surge protection and intermodulation reduction solution
- High return loss
- CPD Safe™ - NiSn plated housing, silver plated beryllium copper F-contacts
- Easy to install - compact flat or side mounting
- Grounding block option available
- Exceeds EN Class A screening requirements



Overview

Products within the Ecoline range excel both in electrical and mechanical performance. Though designed for use within indoor environments, they are also specified for use within street-side plant.

Ecoline products are designed for easy installation, have a compact housing and some models are stackable. All F-connectors used on Ecoline products meet the SCTE standards (ANSI SCTE 02 2006). The F-inner spring is designed to connect coax cables with an inner core of 0.56 to 1.30 mm. It retains this elasticity and provides effective clamping force even when varying thicknesses of inner conductor are connected in succession.

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 (EN-50083-2:2006) over the whole frequency range from 5 MHz to 1000 MHz.

Modem Safe

Modem Safe is a highly effective surge protection solution for sensitive network and in-home CPE. Based on passive circuits, the technology does not rely on discharge tubes, extending the lifespan of the solution.

- Blocks high and low voltage pulses and unwanted DC voltages
- Prevents internal ferrites within the product from becoming magnetised (avoiding deterioration in the performance of CPE)
- Drives fewer reported faults
- Improves customer service
- Reduces truck rolls

CPD Safe

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidation of dissimilar metals when in close contact. CPD Safe technology protects against CPD.

- Removes a primary cause of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Reduces truck rolls
- Improves customer service

Specifications

		MHz	12dB		16dB		20dB	
			Typ	Max	Typ	Max	Typ	Max
Insertion loss (dB)	In to Out	5-65	3.9	4.3	2.4	2.8	2.3	2.7
		65-300	3.5	3.9	2.2	2.6	2.2	2.6
		300-550	3.3	3.7	2.0	2.4	2.5	2.9
		550-750	3.4	3.8	1.9	2.3	2.2	2.6
		750-862	3.5	3.9	2.2	2.6	2.3	2.7
		862-1006	3.6	4.0	2.2	2.6	2.4	2.8
		In to Tap	5-65	12.7	14.0	17.0	18.0	19.9
	65-550	12.5	13.5	16.8	17.5	19.8	21.5	
	550-1006	12.5	13.5	16.9	17.5	20.0	21.5	
Return loss (dB, typ)	All ports	5-15	27.8		28.9		29.7	
		15-550	25.7		25.7		27.5	
		550-1006	24.9		23.0		25.9	
Isolation (dB)	Tap to Tap		Typ	Min	Typ	Min	Typ	Min
		5-65	46.2	40.0	55.4	40.0	62.1	40.0
		65-550	45.3	36.0	55.6	36.0	60.7	36.0
	550-1006	42.3	32.0	51.0	32.0	53.7	32.0	
Directivity	Out to Tap	5-65	36.3	32.0	47.8	36.5	55.1	41.3
		65-550	35.1	32.0	46.9	43.0	52.5	46.2
		550-1006	30.7	27.0	41.9	35.9	44.9	39.4
Screening efficiency (dB) ¹		5-300	>95					
		300-470	>90					
		470-950	>85					
		950-1000	>85					
Shielding effectiveness (dBi) ²		5-300	Avg 130					
		300-1000	Avg 120					
Intermodulation p+q (dBc, min) ³		-115						
Surge Class conformance ⁴	All ports	1 kV 1.2/50µs						
Connectors	All ports	F-female						
Material	Housing	NiSn plated zinc die-cast						
	F-spring	Silver plated beryllium copper						
Impedance (Ohm, typ)		75						
Dimensions (mm)	L x H x D	88 x 49.8 x 36.5						
Equipment Approval	CE							

Remarks

1	Tested according to EN 50083-2 2006
2	Tested according to SCTE IPS-TP-403
3	Two carriers (50 & 55MHz), out to in, @ 120dBµV, after 10 pulses (25V/1,2µS rise time/500µS duration) at all ports Two carriers (50 & 55MHz), out to in, @ 120dBµV, after 1 pulse 1KV (1,2µS risetime/50µS fall time) at Input.
4	Tested according to IEC 61000-4-5 2005
	DC power blocking all ports

Ordering information

(without grounding block)

Item Name	Article number
ET-4-12+/N	10430404
ET-4-16+/N	10430405
ET-4-20+/N	10430406

(with grounding block)

Item Name	Article number
ET-4-12+/N-G	19003829
ET-4-16+/N-G	19003830
ET-4-20+/N-G	19003831

Measurements taken at room temperature

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