

- 5-1218 MHz
- High quality 2-way installation tap
- Technetix Modem Safe® surge protection and intermodulation reduction solution
- High Return Loss
- Technetix CPD Safe™ – NiSn plated housing, silver plated beryllium copper F-contacts
- 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 2015). The F-inner spring is designed to connect coax cables with an inner core of 0.65 to 1.10 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-50083-2:2012) over the whole frequency range from 5 MHz to 1218 MHz.

Technetix Modem Safe®

Technetix 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

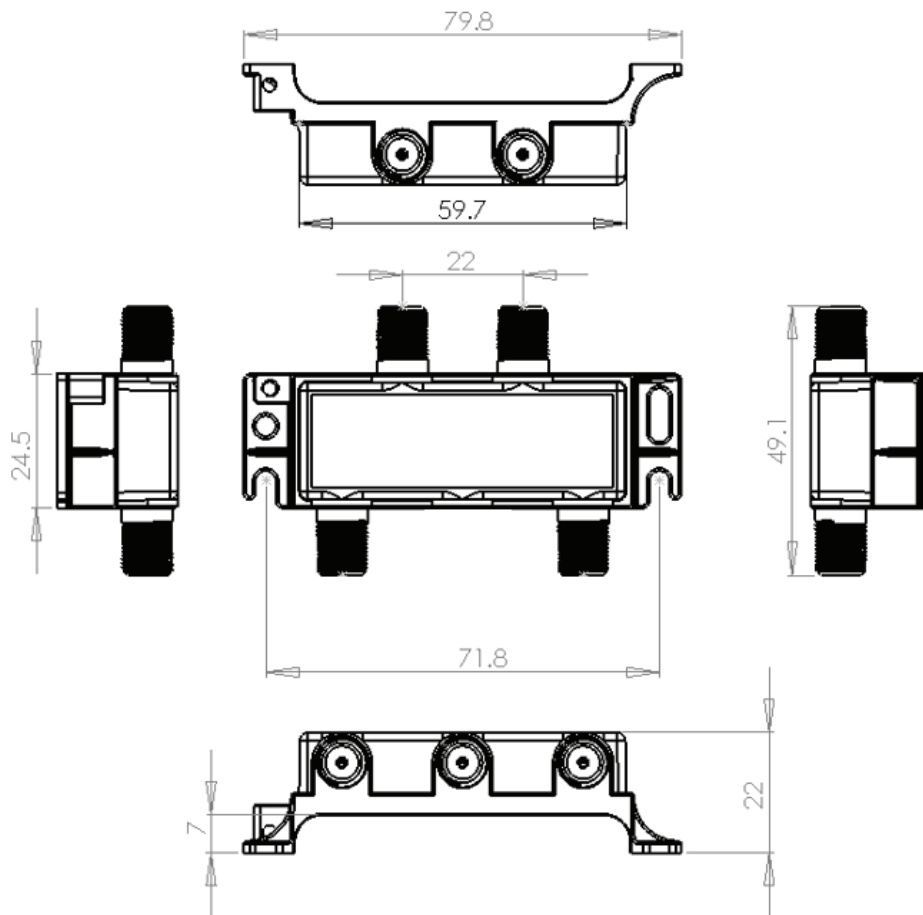
Technetix CPD Safe™

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 source of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Improves customer service
- Reduces truck rolls

Mechanical

Die cast zinc alloy (Zamac 3) housing and lid. **Plating:** Tin Nickel



General Specification

Characteristic		Min	Typ	Max	Units
Frequency Range	All Ports	5		1218	MHz
	Operating	5		+45	°C
Temperature Range	Storage	-40		+60	°C
	Input		75		Ω
Impedance	Outputs		75		Ω
Safety	Input Surge Protection	IEC61000-4-5:1995	Level 2	+/-1 KV, 1.2/50 us	

Ordering information

Item name	Article number
ETX-2-8	19010751
ETX-2-10	19010752
ETX-2-12	19010753
ETX-2-16	19010754
ETX-2-20	19010755
ETX-2-24	19010756

RF Specification

Parameter	Port(s)	Frequency (MHz)	8 dB			10 dB			12 dB			16 dB			20 dB			24 dB			Notes	
			Min (dB)	Typ (dB)	Max (dB)	Min (dB)	Typ (dB)	Max (dB)	Min (dB)	Typ (dB)	Max (dB)	Min (dB)	Typ (dB)	Max (dB)	Min (dB)	Typ (dB)	Max (dB)	Min (dB)	Typ (dB)	Max (dB)		
Insertion Loss	In-Tap	5-10		9.0			10.8			12.6			16.6			20.1			24.2		5	
		10-65	7.0	8.5	10.0	9.5	10.4	11.2	11.5	12.2	13.5	15.0	16.5	17.2	19.0	20.0	21.0	23.0	24.0	25.0		
		65-470	7.5	8.5	9.5	9.5	10.5	11.2	11.0	12.0	13.0	15.0	16.2	17.2	19.0	20.0	21.0	23.0	24.0	25.0		
		470-1218	7.5	8.8	9.5	9.0	10.5	11.3	11.0	12.0	13.0	15.0	16.6	17.4	19.0	20.0	21.0	22.5	24.0	25.2		
	In-Out	5-10		3.0			2.4			2.0			1.2			1.1			1.1		5	
		10-65		2.7	3.3		2.1	2.7		1.8	2.4		1.0	1.7		0.9	1.2		0.9	1.2		
		65-470		2.7	3.3		2.0	2.4		1.6	2.0		1.0	1.5		0.8	1.2		0.8	1.2		
		470-862		3.2	3.8		2.3	2.7		1.8	2.2		1.1	1.7		1.0	1.4		1.0	1.4		
		862-1006		3.6	4.0		2.6	3.0		1.9	2.4		1.3	1.8		1.1	1.5		1.1	1.5		
		1006-1218		4.2	4.7		3.1	3.5		2.2	2.8		1.5	1.9		1.4	1.8		1.4	1.8		
Return Loss	All Ports	5-10	18																		5	
		10-15	18																			
		15-470	20																		4	
		470-1006	16																			
		1006-1218	14																			
Directivity	Out-Tap	5-10	26			26			26			34			40			40			5	
		10-15	26			24			25			28			30			35				
		15-65	30			26			27			35			40			42				
		65-470	25			30			30			32			36			40				
		470-1006	20			22			22			30			32			36				
		1006-1218	20			20			20			26			30			34				
Isolation	Tap-Tap	5-10	30			35			40			50			55			60			5	
		10-15	30			36			36			36			36			36				
		15-65	32			40			40			40			40			40				
		65-470	32			35			35			35			35			35				
		470-1006	26			28			30			32			32			32				
		1006-1218	25			26			28			30			30			30				
Intermodulation			-115 dBc																		1	
Surge Withstand	Input	1000 V	35 V																		2	
Screening Effectiveness		5-12	85																		3	
		12-30	85																			
		30-470	80																			
		470-1006	75																			
		1006-1218	75																			

Notes

1	Two carriers (60 & 65 MHz), Out to Tap, @ 120 dBuV, after 10 pulses (25 V/1.2 uS rise time / 500 uS duration) at Output ports.	3	EMC testing to EN-50083 (5-30 MHz Transfer impedance method, 30-950 MHz Absorbing Clamp, 0.95-2 GHz Substitution method)
	Two carriers (60 & 65 MHz), Out to Tap, @ 120 dBuV, after 1 pulses (1 k V/1.2 uS rise time / 50 uS fall time) at Input.	4	F>40 MHz -1.5 dB/Oct, Minimum 16 dB
2	Surge pulse 1 kV/1.2 uS rise time / 50 uS fall time (IEC61000-4-5:1995)	5	Typical values and not guaranteed