

ESX-02



- High quality 2-way installation splitter
- Modem Safe™
- CPD Safe™
- Easy to install
- Compact and stackable in-line model
- 7 mm space to fit cable underneath
- Grounding block included
- 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. The products are easy to install with a compact housing and some models are stackable. All F-connector contacts meet the SCTE standards (ANSI SCTE 02 2006). The material of the inner spring has been designed for connecting coax cables with an inner core of 0.64 to 1.07 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 1218 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™

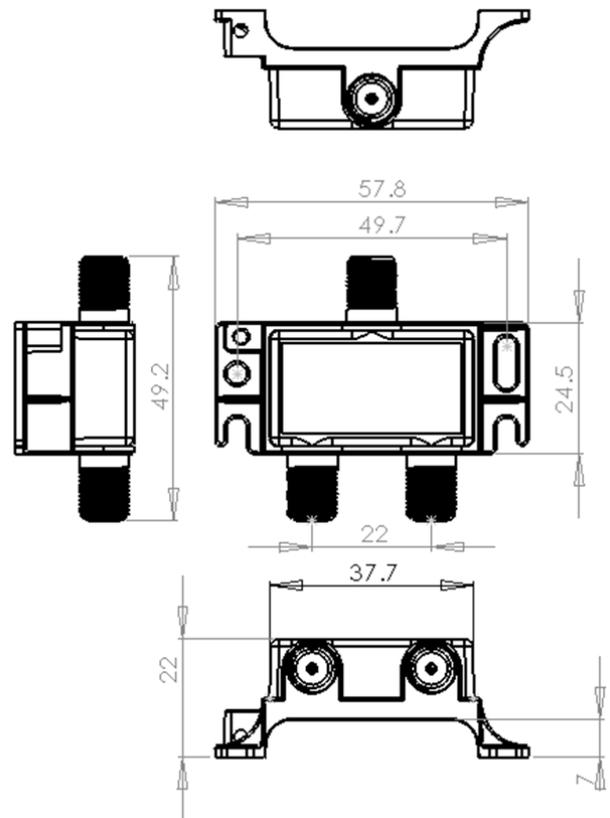
CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidation of dissimilar metals when in close contact. CPD Safe technology protects against CPD.

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

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Specifications

		MHz	2-Way Splitter	
Frequency Range (MHz)		5-1218		
Insertion loss (dB)	In to Out		Typ	Max
		5-12	3.5	4.0
		12-470	3.5	3.8
		470-1006	3.8	4.2
		1006-1218	4.2	4.5
Return loss (dB, min) ¹	All ports	5-20	20	
		20-470	25	
		470-1006	20	
		1006-1218	18	
		Isolation (dB, min)	Out to Out	5-12
		12-30	34	
		30-470	30	
		470-1006	25	
		1006-1218	20	
Screening efficiency (dB, min) ²		5-12	90	
		12-30	95	
		30-470	100	
		470-1006	100	
		1006-1700	90	
		1700-2000	80	
Intermodulation (dBC, min) ³		115.0		
Surge withstand ⁴ (V, max)	Input	1kV	35	
Temperature Range (°C)	Operating	-40 to +60		
	Storage	-40 to +65		
Impedance (Ohm, typ)		75		
Connectors	All ports	F-female		
Material	Housing	NiSn plated zinc die-cast		
	F-spring	Silver plated beryllium copper		
Dimensions (mm)	L x H x D	57.8x49.2x22		
Equipment Approval		CE/FCC		



Remarks

- 1 F>40MHz -1.5dB/Oct
- 2 EMC testing to EN-50083 (5-30 MHz Transfer impedance method, 30-950MHz Absorbing Clamp, 0.95-2GHz Substitution method)
- 3 Two carriers (60 & 65MHz), out to out, @ 120dBμV, after 10 pulses (25V/1,2μS rise time/500μS duration) at Output ports.
Two carriers (60 & 65MHz), out to out, @ 120dBμV, after 1 pulse 1KV (1,2μS risetime/50μS fall time) at Input.
- 4 Surge pulse 1KV/1.2uS rise time / 50uS fall time (IEC61000-4-5:1995)

Ordering information

Item Name	Article number
ESX-02	19008530

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