

ESI 6-way splitter







- High quality 6-way installation splitter
- ModemSafe[™] surge protection and intermodulation reduction solution
- IngressSafe[™] unique passive ingress reduction technology
- High return loss
- CPD Safe[™]-NiSn plated housing
- Easy to install compact flat or side mounting
- 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 0.56 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.

Ingress Safe

Our patented Ingress Safe technology uses a phase cancellation technique to considerably reduce ingress created within the home. It has no adverse effect on the CATV spectrum and is transparent to the forward and reverse path signals.

- Significantly reduces noise on CATV networks, improving network performance
- Field tests show Ingress Safe units in the distribution network can deliver improvement in the carrier to noise ratio that averages from between 3 dB and 12 dB, depending on the network topology
- Prevents or delays the need to deploy technicians to rectify faults caused by the cumulative effects of ingress on network performance and customer service.

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 oxidisation 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	6-Way Splitter	
Insertion loss (dB)	In to Out		Тур	Max
	In to Out 1-3	5-65	10.5	10.9
		65-300	10.1	10.5
		300-550	10.0	10.4
		550-750	10.0	10.4
		750-862	11.0	11.4
		862-1006	10.9	11.3
	In to Out 4-6	5-65	10.1	10.5
		65-300	9.7	10.1
		300-550	9.6	10.0
		550-750	9.6	10.0
		750-862	10.6	11.0
		862-1006	10.5	10.9
Return loss (dB, typ)	All ports	5-15	28	3.9
		15-550	30).6
		550-1006	24.3	
Isolation	Out to Out		Тур	Min
		5-65	41.4	30.0
		65-550	38.8	24.0
		550-1006	25.9	21.0
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		-115.0		
Ingress Safe	Out	Ports 1, 2, 3		
Surge Class conformance ⁵	All ports	1 kV 1.2/50μs		
Connectors	All ports	F-female		
Plating Material	Housing	NiSn plated	NiSn plated zinc die-cast Silver plated beryllium copper	
	F-spring			
Impedance (0hm, typ)		75		
Dimensions (mm)	LxHxD	132.3x49.2x37.9		
Equipment Approval	CE			
	ı			

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	sted according to IEC 61000-4-5 2005		
	DC power blocking all ports		

Ordering information

Item Name	Article number
ESI-06/N	10430093

Measurements taken at room temperature

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