

BESL 2-way splitter



- **2-way installation splitter**
- **Ingress Safe™ - unique passive ingress reduction technology**
- **High return loss and isolation performance**
- **CPD Safe™ - silver plated beryllium copper F-inner spring**
- **F-inner spring accepts test gauges between 0.56 and 1.20 mm**
- **Compact housing with nickel plating**
- **Exceeds EN Class A screening requirements**



Overview

Products within the BaseLine range are designed for easy installation and have a compact, nickel plated housing.

All F-connectors used on BaseLine products meet SCTE standards (ANSI SCTE 02 2006). Made of silver plated beryllium copper, 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 housing has a soldered back lid for reliable ingress and egress performance and protection against moisture. 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.

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	2-Way	
			Typ	Max
Insertion loss (dB)	In to Out			
		5-65	3.1	3.5
		65-300	3.1	3.7
		300-550	3.3	3.9
		550-750	3.5	4.2
		750-862	3.8	4.2
		862-1006	3.8	5.0
Return loss (dB, typ)	All ports	5-15	31.3	
		15-550	30.6	
		550-1006	24.0	
Isolation (dB)	Out to Out		Typ	Min
		5-65	34.8	21.4
		65-550	37.7	29.4
		550-1006	30.7	26.3
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	
Ingress Safe	Out	Port 2		
Intermodulation p+q (dBc, min) ³		-105		
Surge Class conformance ⁴	All ports	1 kV 1.2/50µs		
Connectors	All ports	F-female		
Material	Housing	Nickel plated zinc die cast		
	F-spring	Silver plated beryllium copper		
Impedance (Ohm, typ)		75		
Dimensions (mm)	L x H x D	48.6x49.0x15.0		
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

Item Name	Article number
BESL-02	10930630

Measurements taken at room temperature

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