

- **1.2 GHz headend splitter**
- **Designed for panel mounting in headend applications**
- **Low loss and high return loss performance**
- **Exceeds EN Class A screening requirements**
- **CPD Safe™ - NiSn plated zinc-alloy casing, NiSn plated machined-brass input connector with NiSn plated F-inner spring**



## Overview

The HSX-xx series of high-quality splitters has been developed specifically for panel mounting in headend applications, providing a versatile solution to support many different headend solutions. The series consists of 2, 4 and 8-way low cost, wideband splitters with a connector spacing suitable for use with the Technetix HPPxxx series of 19" 1RU, 1.5RU, 2RU and 3RU mounting panels.

## Construction

- Tough, easy to install housing
- Epoxy sealed tongue and groove back cover
- F-connector inner spring designed for connecting coaxial cables with an inner conductor of 0.64 mm to 1.14 mm (IEC 61169-24:2019) - it retains this elasticity, providing effective clamping force even when varying thicknesses of inner conductor are connected in succession.

## Technetix CPD Safe™

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

## EN Class A screening

High frequency shielding used on this product exceeds Class A requirements (EN 50083 2:2012) across the whole frequency range from 5 MHz to 1218 MHz.

### Electrical performance

Characteristic	Port type	MHz	Min	Typ	Max	Unit	Notes	
Insertion loss	In > Out	12 - 470		3.4	4.2	dB		
		470 - 862		3.8	4.4	dB		
		862 - 1000		3.9	4.4	dB		
		1000 - 1218		4.2	4.5	dB		
Return loss	In	12 - 30	18.0			dB		
		30 - 1000	22.0			dB	1	
		1000 - 1218	15.0			dB		
	Out	12 - 30	18.0			dB		
		30 - 1000	22.0			dB	1	
		1000 - 1218	15.0			dB		
Isolation	Out > Out	12 - 30	22.0			dB		
		30 - 862	26.0			dB	1	
		862 - 1218	20.0			dB		
Screening efficiency		5 - 300	85.0			dB	2	
		300 - 470	80.0			dB	2	
		470 - 950	75.0			dB	2	
		950 - 1218	55.0			dB	2	
Intermodulation p+q	No surge		-122.0			dBc	3	
	25 V surge		-115.0			dBc	4	
	1 kV surge		-105.0			dBc	5	
Surge class conformance	All ports		1 kV 1.2/50 µs				6	
Connectors	All ports		F-female				7	
Material	Housing	NiSn plated zinc die-cast						
	F-spring	NiSn plated beryllium copper						
Impedance			75			Ohm		
Dimensions	L x H x D		41 x 19 x 41			mm		

### Notes

	All specifications are measured at room temperature (23°C)
1	At F > 47 MHz -1.5 dB/octave, always >15 dB return loss; >20 dB isolation
2	Tested according to EN 50083-2:2012
3	Two carriers (60 and 65 MHz) output to output @ 120 dBµV / 60 dBmV, before surge
4	Two carriers (60 and 65 MHz) output to output @ 120 dBµV / 60 dBmV, after 10 pulses (25 V/1.2 µs rise time/500 µs duration) at all ports
5	Two carriers (60 and 65 MHz) output to output @ 120 dBµV / 60 dBmV, after 1 pulse (1 kV 1.2 µs/50 µs, IEC 61000-4-5:2005 level 2) at all ports
6	Tested according to IEC 61000-4-5:2005
7	F-spring tested according to IEC 61169-24:2019

### Order information

Item code	Item name	Description
<b>19012987</b>	HSX-02	2-WAY HQ HEADEND SPLITTER 1.2 GHZ PANEL MOUNT