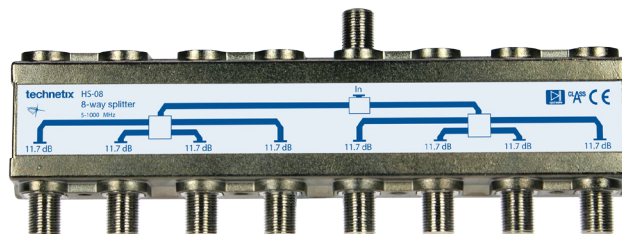# technetix

HS 8-way 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 and NiSn plated, machined brass input connector with NiSn plated F-inner spring**

Overview

The HS-xx series of high quality splitters has been developed specifically for panel mounting in headend applications, providing a versatile solution for supporting 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 HPP-xxxF 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 0.51mm to 1.30mm - it retains this elasticity, providing effective clamping force even when varying thicknesses of inner conductor are connected in succession.

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

EN Class A screening
High frequency shielding used on this product exceeds Class A requirements (EN 50083 2 2006) across the whole frequency range from 5MHz to 1000MHz.

Specifications

		MHz	Typ	Max
Insertion loss (dB)	In -> Out	5 - 10	11.3	11.8
		10 - 470	11.2	11.7
		470 - 862	11.7	12.7
		862 - 1000	12.6	13.7
	In -> Test Point	5 - 1000	20.0	21.5
Return loss (dB, min)[1]	In	5 - 10	20.0	
		10 - 40	22.0	
		40 - 862	22.0	
		862 - 1000	14.0	
	Out	5 - 10	18.0	
		10 - 40	22.0	
		40 - 862	22.0	
		862 - 1000	14.0	
	Test Point	5 - 10	20.0	
		10 - 40	22.0	
		40 - 862	22.0	
		862 - 1000	14.0	
Isolation (dB, min)[1]	Out -> Out	5 - 40	22.0	
		40 - 862	22.0	
		862 - 1000	14.0	
Screening efficiency (dB, min)[2]		5 - 300	85.0	
		300 - 470	80.0	
		470 - 1000	75.0	
Intermodulation p+q (dB, min)	No surge[3]		-122.0	
	25 V surge[4]		-115.0	
	1 kV surge[5]		-105.0	
Surge Class conformance[6]			1 kV 1.2/50µS	
Connectors[7]	All ports		F-female	
Material	Housing		NiSN plated Zinc die-cast	
	F-spring		NiSN plated beryllium copper	
Impedance (Ohm, typ)			75	
Dimensions (mm)	L x H x D			
Equipment approval	CE			

Remarks

	All specifications are measured at room temperature (22°C)
1	Where frequency is above 40 MHz, deduct 1.5 dB/Octave
2	Tested according to EN 50083-2 2006
3	Two carriers (50 and 55 MHz) output to input @ 120 dBµV/60dBmV, before surge
4	Two carriers (50 and 55 MHz) output to input @ 120 dBµV/60dBmV, after 10 pulses (25 V/1.2µs rise time/500µs duration) at input port
5	Two carriers (50 and 55 MHz) output to input @ 120 dBµV/60dBmV, after 1 pulse (1 kV 1.2µs/50µs, IEC 61000-4-5 2005 level 2) at input port
6	Tested according to IEC 61000-4-5 2005
7	F-spring test pin acceptance 0.51mm min to 1.3mm max

Ordering information

Item Name	Article number
HS-08	19001789