



## Overview

Amphenol RF's HSD (High Speed Data) product portfolio includes a wide variety of fixed length cable assembly options ideal for various automotive applications. These assemblies are available in multiple configurations and feature excellent electrical performance through 2 GHz. HSD cable assemblies are compatible with LVDS, Ethernet and USB protocols and meet USCAR standards.

HSD fixed length cable assemblies offer quick push-on mating with color coded, keyed bodies to prevent mismatching.

## Features and Benefits

- Keyed connector for easy-to-see visual identification and mismatch mating prevention
- Compatible with LVDS, Ethernet and USB protocols
- Wide range of length options to suit all application markets

## Applications

- Infotainment Modules
- Headend Units
- Cluster Displays
- LVDS Cameras
- USB Connections
- Digital Symmetrical Networks (DSL)
- Radio Base Stations

## HSD FIXED LENGTH CABLE ASSEMBLIES

Enables High-Speed Data Transmission in Automotive Applications

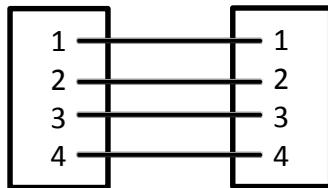
## Ordering Information

### Straight Jack to Straight Plug

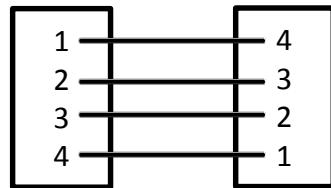
Part Number	Description	Wiring
HSDSJZSPZXX-16	HSD Straight Jack to HSD Straight Plug	Fig. A
HSDSJZSPZXX-17	HSD Straight Jack to HSD Straight Plug	Fig. B
HSDSJZSJZXX-18	HSD Straight Jack to HSD Straight Jack	Fig. A
HSDSJZSJZXX-19	HSD Straight Jack to HSD Straight Jack	Fig. B
HSDSPZSPZXX-20	HSD Straight Plug to HSD Straight Plug	Fig. A
HSDSPZSPZXX-21	HSD Straight Plug to HSD Straight Plug	Fig. B

Note: XX denotes length code. See standard lengths available.

**Fig. A**



**Fig. B**



## Standard Lengths Available

Code	Length in Inches (Meters)	Code	Length in Inches (Meters)
01	12.00 [0.305]	13	120.00 [3.048]
02	19.69 [0.500]	14	144.00 [4.572]
03	24.00 [0.610]	15	180.00 [7.620]
04	29.53 [0.750]	16	196.85 [5.000]
05	36.00 [0.914]	17	300.00 [15.240]
06	39.37 [1.000]	18	393.70 [10.000]
07	48.00 [1.219]	19	600.00 [22.860]
08	59.06 [1.500]	20	787.40 [20.000]
09	60.00 [1.524]	21	900.00 [30.480]
10	72.00 [1.829]	22	1181.10 [30.000]
11	78.74 [2.000]	23	1200.00 [30.480]
12	118.11 [3.000]		

## Amphenol RF

Four Old Newtown Road  
Danbury, CT 06810

For more information visit: [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

# Amphenol® RF

## Technical Specifications

### Electrical

Impedance	100 Ω	
Frequency Range	DC - 2 GHz	
Insertion Loss	DC – 500 MHz	0.1 dB Max.
	500 MHz – 2 GHz	0.3 dB Max.
Return Loss	DC – 1 GHz	20 dB Min.
	1 GHz – 2 GHz	17 dB Min.
Insulation Resistance	1000 MΩ Min.	
Contact Resistance	Center Contact	≤ 10 MΩ Min.
	Outer Contact	≤ 7.5 MΩ Min.
Dielectric Withstanding Voltage	At Sea Level: > 250 VRMS (Interface Only)	
Skew	5 ps Max.	
Crosstalk	-30 dB Max.	

### Environmental

Temperature Range	-40°C to +105°C
Thermal Shock	DIN EN 60068- 2- 14
Vibration	DIN EN 60068- 2- 64
Mechanical Shock	DIN EN 60068- 2- 27

### Mechanical

Durability (Matings)	25 Cycles Min.
Plastic Housing - Engagement Force	≤ 30 N
Plastic Housing - Disengagement Force	≥ 5 N
Cable Retention Force	≥ 110 N
Coding	Mechanical and Color Coded Keyed Mating Specs

Note: Technical specifications are typical for a single HSD connector and may vary by specific part number. See component drawing for additional information.

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