



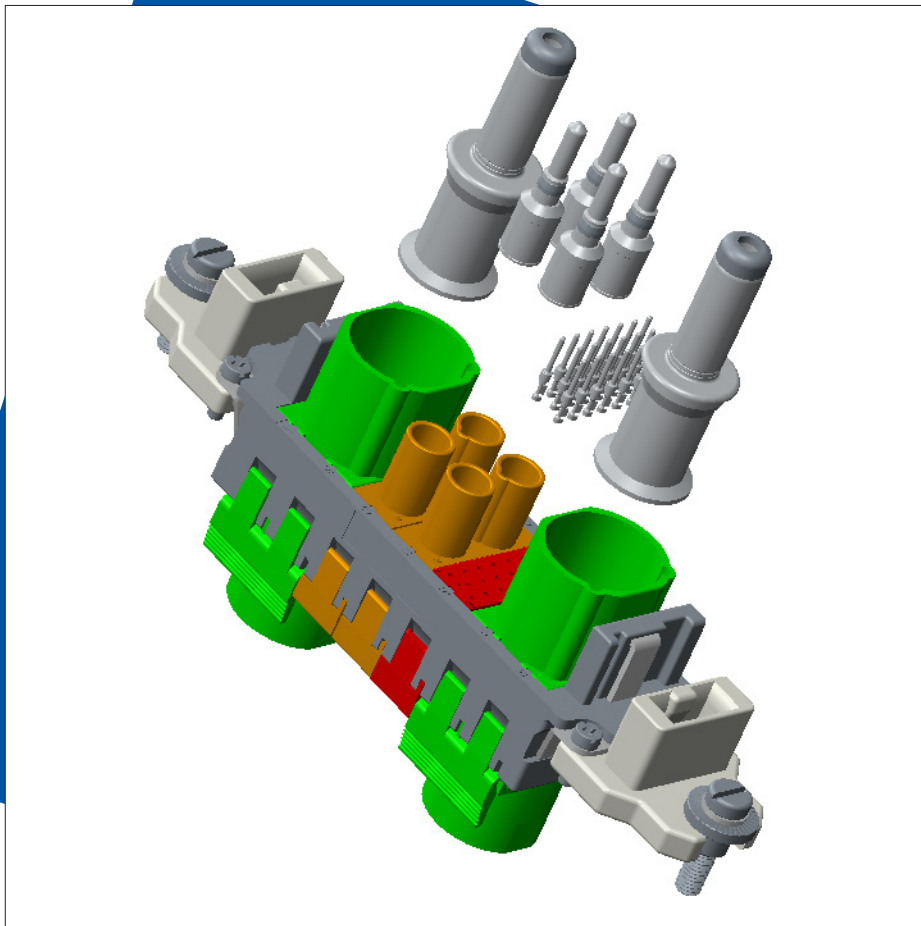
Amphenol HyperStack Connectors

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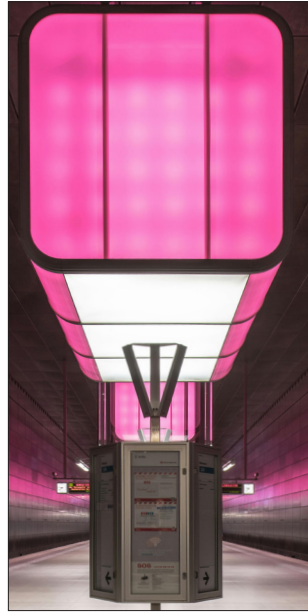
Amphenol HS Series HyperStack Connectors

High voltage & Heavy current connector with signal and AC/DC power contacts



Hybrid Module for Both Power and Signal
Modularization & Adaptive Floating & Rack Mounting
AI Application Connector

Amphenol HS Series Applications



Amphenol PCD Shenzhen HyperStack Connector series is a cutting-edge solution designed to address the growing demands of modern applications such as [new energy vehicles](#), [energy storage systems](#), [AGVs \(Automated Guided Vehicles\)](#), [Artificial Intelligence \(AI\) Facility](#), [Railway Cabinet](#), and other [industrial equipment](#). This series offers a modular, combined, and adaptive floating design that ensures reliable power supply and signal transmission in complex and demanding environments.

Amphenol HS Series

Key Features

STANDARD - PROBE-PROOF POWER CONTACTS

IP2XB

MECHANICAL

Durability	≥ 500 mating cycles
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ELECTRICAL

Rated voltage	50V (signal) + 1,000V (power)
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ENVIRONMENTAL

Operating temperature	-40°C to 125°C
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MATERIAL

Connector	Thermoplastic housing + Metal frame
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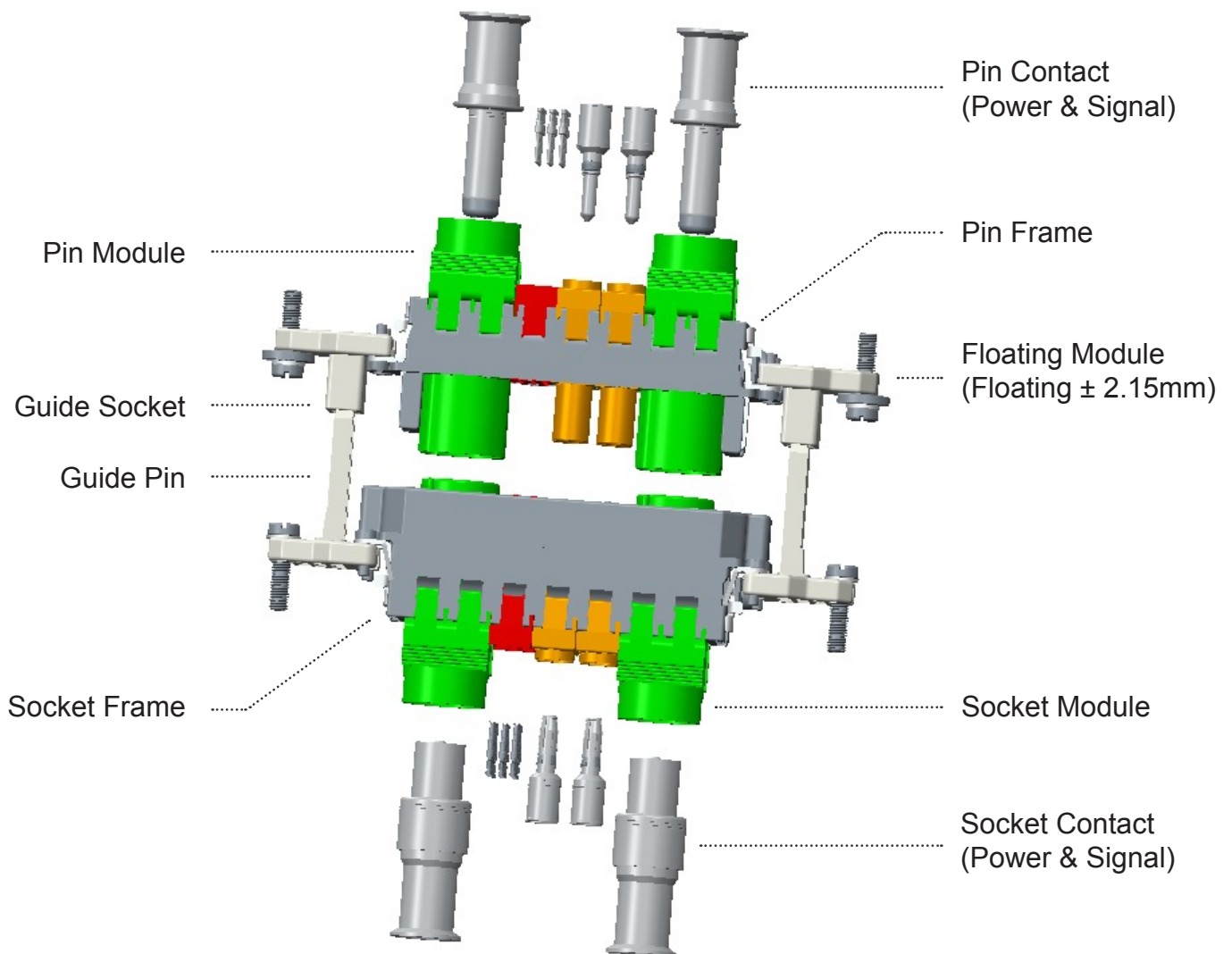
Contact	Can be flexibly customized
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Cable Range	Signal contacts: 0.14mm ² - 2.5mm ² (26-14 AWG) Auxiliary power contacts: 2.5mm ² - 10.0mm ² High Current Power Contacts: 16mm ² - 120mm ²
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Free configuration and extension by modulars

Amphenol HS Series

Overview of Amphenol HS Connector



Amphenol HS Series

How To Order & Module Technical Data

How To Order

HS	R	1X 10X 4AX BX 3AX 4X 20X	S/P	XXX
Connector: R: Plug F: Receptacle Modular type & quantities signal: 1: 1 way power (Max.1000V,250A) 1A: 1 way power (Max.1000V,200A) 2: 2 way power (Max.1000V,150A) 2A: 2 way power (Max.1000V,65A) 3: 3 way power (Max.1000V,50A) 4: 4 way power (Max.1000V,16A) 4A: 4 way power (Max.630V,16A) 5: 5 way power (Max.400V,20A) 10A: 10 way signal (Max.250V,10A), stamped contacts 10: 10 way signal (Max.250V,10A), turned contacts 20: 20 way signal (Max.63V,4A) B: Blind Module X: Quantities of modules configured Combinations: P: with Pins module S: with Sockets module Customized Coding (contact us)				

Module Technical Data

Item	Contact Number	Contact Size	Cable Range (mm ²)	Cable Range (AWG)	Rated Voltage	Rated Current	Layout
1	1	ø10mm	16-95	6-3	1000V	250A	
2	1	ø8mm	16-50	6-1	1000V	200A	
3	2	ø6mm	16-35	6-2	1000V	150A	
4	2	ø3.6mm	1.5-16	16-6	1000V	65A	
5	3	ø3.6mm	1.5-10	16-8	1000V	50A	
6	4	ø2.5mm	0.14-4	-	630V	25A	
7	4+PE	ø2.5mm	0.5-4	-	1000V	16A	
8	5	ø2.5mm	0.5-4	-	400V	20A	
9	10	ø1.6mm	0.14-2.5	-	250V	10A	
10	20	ø1.0mm	0.14-2.5	-	250V	10A	

Amphenol HS Series Signal & Auxiliary Power Contacts

Features

- ▶ Two options for Pin and Sockets contacts : Machining and Stamped
- ▶ Mating Cycles: Stamping type>200 cycles; Machining type>2000 cycles
- ▶ 1.0 mm(20#) contacts: Max. 4A@0.5mm²
- ▶ 1.6 mm(16#) contacts: Max. 10A@2.5mm²
- ▶ 2.5mm contacts: Max. 16A@4mm²

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Stamped 1.0 mm crimp contacts						
gold plating	0.09 – 0.14 mm ²	28 – 26	100	VN01 010 0130 2	VN02 010 0130 2	
	0.25 – 0.50 mm ²	24 – 20	100	VN01 010 0131 2	VN02 010 0131 2	

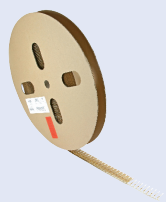
Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Turned 1.6 mm crimp contacts crimp contact						
silver plating	0.14 - 0.37 mm²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C	
	0.5 mm²	20	100	VN01 016 0025 1C	VN02 016 0025 1C	
	0.75 - 1.0 mm²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C	
	1.5 mm²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C	
	2.5 mm²	14	100	VN01 016 0028 1C	VN02 016 0028 1C	
gold plating	0.14 - 0.37 mm²	26 - 22	100	VN01 016 0024 2C	VN02 016 0024 2C	
	0.5 mm²	20	100	VN01 016 0025 2C	VN02 016 0025 2C	
	0.75 - 1.0 mm²	20 - 16	100	VN01 016 0026 2C	VN02 016 0026 2C	
	1.5 mm²	16 - 15	100	VN01 016 0027 2C	VN02 016 0027 2C	
	2.5 mm²	14	100	VN01 016 0028 2C	VN02 016 0028 2C	

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Turned 2.5 mm crimp contacts						
silver plating	0.5 mm²	20	100	VN01 025 0029 1C	VN02 025 0029 1C	
	0.75 - 1.0 mm²	18	100	VN01 025 0030 1C	VN02 025 0030 1C	
	1.5 mm²	16	100	VN01 025 0031 1C	VN02 025 0031 1C	
	2.5 mm²	14	100	VN01 025 0032 1C	VN02 025 0032 1C	
	4.0 mm²	12	100	VN01 025 0033 1C	VN02 025 0033 1C	

Amphenol HS Series

Signal & Auxiliary Power Contacts

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Stamped 1.0 mm crimp contacts						
gold plating	0.09 – 0.14 mm ²	28 – 26	100	VN01 010 0130 2	VN02 010 0130 2	
	0.25 – 0.50 mm ²	24 – 20	100	VN01 010 0131 2	VN02 010 0131 2	
Stamped Contacts on reel for hand crimp tools						
gold plating	0.09 – 0.14 mm ²	28 – 26	350	ZN01 010 0130 2	ZN02 010 0130 2	
	0.25 – 0.50 mm ²	24 – 20	350	ZN01 010 0131 2	ZN02 010 0131 2	
Stamped contacts on reel for crimp machines contact feeding left hand side						
gold plating	0.09 – 0.14 mm ²	28 – 26	2000	TN01 010 0130 2	TN02 010 0130 2	
	0.25 – 0.50 mm ²	24 – 20	2000	TN01 010 0131 2	TN02 010 0131 2	

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Stamped single contacts						
silver plating	0.5 - 1.5 mm ²	20 - 16	100	VN01 025 0001 101	VN02 025 0001 101	
	1.5 - 2.5 mm ²	16 - 14	100	VN01 025 0010 101	VN02 025 0010 101	
	2.5 - 4.0 mm ²	14 - 12	100	VN01 025 0043 1	VN02 025 0043 1	
gold plating	0.5 - 1.5 mm ²	20 - 16	100	VN01 025 0001 102	VN02 025 0001 102	
	1.5 - 2.5 mm ²	16 - 14	100	VN01 025 0010 102	VN02 025 0010 102	
	2.5 - 4 mm ²	14 - 12	100	VN01 025 0043 2	VN02 025 0043 2	
Stamped Contacts on reel for hand crimp tools						
silver plating	0.5 - 1.5 mm ²	20 - 16	200	ZN01 025 0001 1	ZN02 025 0001 1	
	1.5 - 2.5 mm ²	16 - 14	100	ZN01 025 0010 1	ZN02 025 0010 1	
gold plating	0.5 - 1.5 mm ²	20 - 16	200	ZN01 025 0001 2	ZN02 025 0001 2	
	1.5 - 2.5 mm ²	16 - 14	100	ZN01 025 0010 2	ZN02 025 0010 2	
Contacts on reel for crimp machines contact feeding left hand side						
silver plating	0.5 - 1.5 mm ²	20 - 16	2000	TN01 025 0001 1	TN02 025 0001 1	
	1.5 - 2.5 mm ²	16 - 14	2000	TN01 025 0010 1	TN02 025 0010 1	
	2.5 - 4 mm ²	12	2000	TN01 025 0043 1	TN02 025 0043 1	

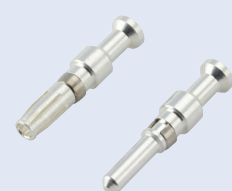
Amphenol HS Series High Current Power Contacts

Features

- ▶ Two options for Pin and Sockets contacts : Machining and Stamped
- ▶ Mating Cycles: Stamping type>200 cycles; Machining type>2000 cycles
- ▶ 10mm contacts: Max. 250A@95mm²
- ▶ 8mm contacts: Max. 200A@50mm²
- ▶ 6mm contacts: Max. 150A@25mm²
- ▶ 3.6mm contacts: Max. 65A@16mm²

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Turned 10 mm crimp contacts						
Single contact	25 mm²	4	1	N01 100 5099 001	N02 100 6119 002	
	35 mm²	2	1	N01 100 6000 001	N02 100 6120 002	
	50 mm²	1	1	N01 100 6001 001	N02 100 6121 002	
	70 mm²	00	1	N01 100 6002 001	N02 100 6122 002	
	95 mm²	000	1	N01 100 6003 001	N02 100 6123 002	

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Pin contact	Socket contact	
Turned 6 mm crimp contacts						
Single contact	16 mm²	6	1	N01 060 0007 1	N02 060 6117 001	
	25 mm²	4		N01 060 0004 1	N02 060 6114 001	
	35 mm²	2		N01 060 0008 1	N02 060 6118 001	

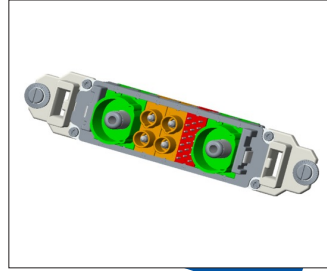
Supplied as	for wire gauge	AWG	Pieces	Part number		Figure
				Pin contact	Socket contact	
Turned 3.6 mm crimp contacts (All contacts 2 mm first-to-mate to other modules)						
silver plating	1.5 mm ²	16	100	VN01 036 0004 1C	VN02 036 0004 1C	
	2.5 mm ²	14	100	VN01 036 0005 1C	VN02 036 0005 1C	
	4.0 mm ²	12	100	VN01 036 0001 1C	VN02 036 0001 1C	
	6.0 mm ²	10	100	VN01 036 0002 1C	VN02 036 0002 1C	
	10.0 mm ²	8	100	VN01 036 0003 1C	VN02 036 0003 1C	
Turned 3.6 mm crimp contacts						
Single contact	16 mm ²	6	100	VN01 036 0021 1C	VN02 036 0021 1C	

Amphenol HS Series Combination Examples

HSR 12 2A2 201 S



HSF 12 2A2 201 P



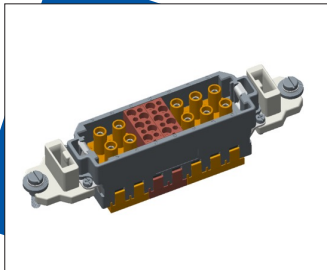
HSR 22 103 S



HSF 22 103 P



HSR 2A5 102 S



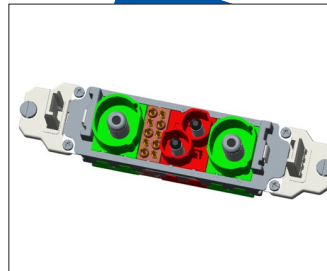
HSF 2A5 102 P



HSR 12 21 101 S



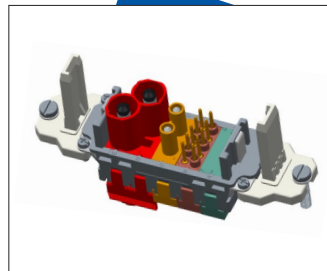
HSF 12 21 101 P



HSR 21 2A1 101 B1 S



HSF 21 2A1 101 B1 P



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