

HD38999

High Density

A connector that has the connections...

The HD38999 family of connectors was designed to work with existing mil-specified 38999 shells. To the end users familiar with standard 38999 connectors, this family of high density connectors will look, feel, and perform just like the mil-qualified connectors. Utilizing an existing mil-qualified 39029 size 23 contact and mil-qualified shells, the new system will be, in many cases, a drop-in connector. Even though the HD38999 has 30% more contacts, it still performs to minimum electrical requirements of standard 38999 connectors.



High Density Interconnects

Goes from 9 to 187 contacts!

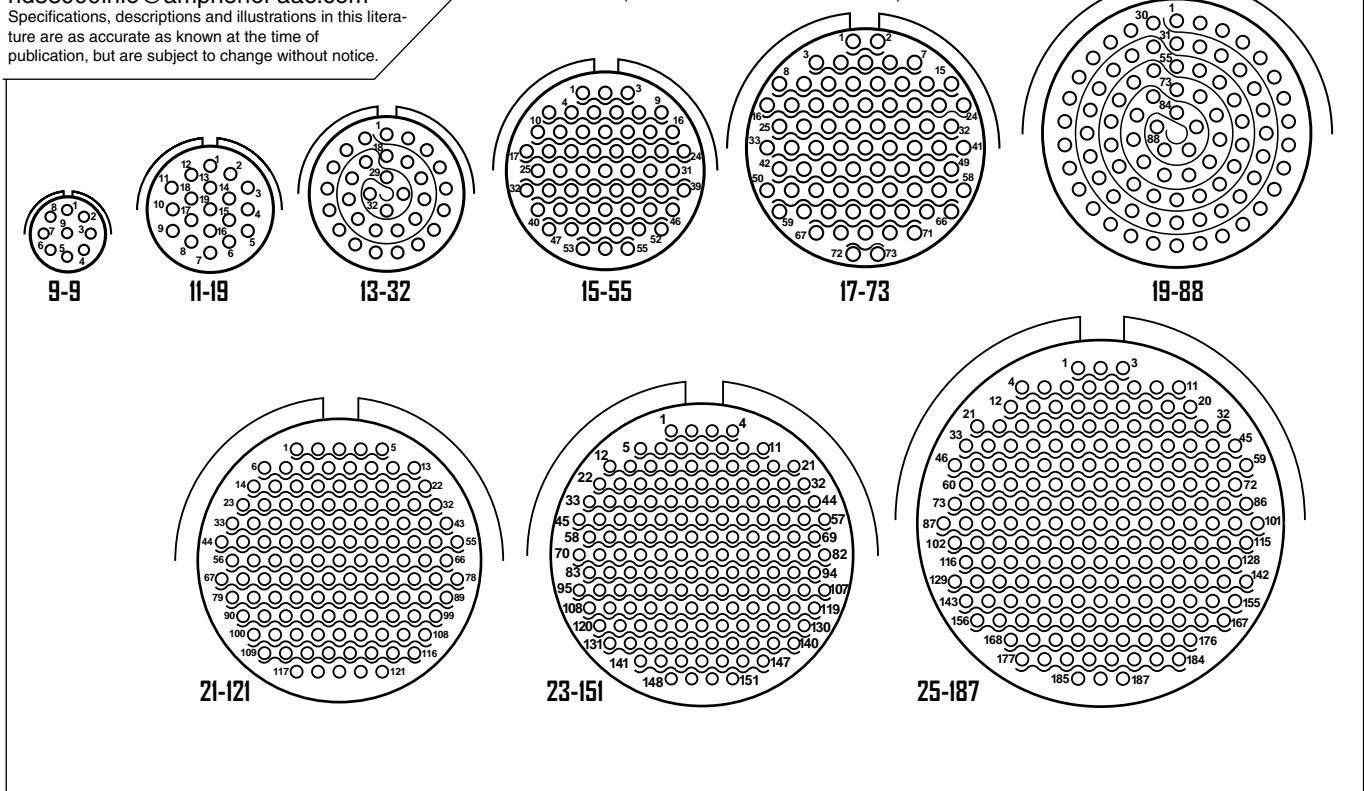


- Aluminum
- Composite
- Stainless Steel
- Sealed
- Filtered



For more information e-mail:
hd38999info@amphenol-aao.com
 Specifications, descriptions and illustrations in this literature are as accurate as known at the time of publication, but are subject to change without notice.

Shell Sizes (Front of Pin Insert Shown)



Front of Pin Insert Shown.

III	38999
II	26482 Matrix 2
I	83723 III Matrix Pyle
SJT	5015 Crimp Rear Release Matrix
	26500 Pyle
	Printed Circuit Board
	EMI Filter Transient
	Fiber Optics
	High Speed Contacts
	Options Others

38999 SJT III	CRIMP CONTACT SIZE	WIRE BARREL RANGES/CURRENT CAPABILITY	CRIMP BARREL DIAMETER	CRIMP BARREL
	SAE AS39029, SIZE 23	22 AWG 5.0 AMPS 24 AWG 3.0 AMPS 26 AWG 2.0 AMPS 28 AWG 1.5 AMPS	(Inches) .034-.036	Depth (Inches).151-.155


Note: Wire insulation diameter greater than 0.045 inches is too large for the extraction tool to work properly. Connector damage is possible.

Contact Part Numbers Crimp Tool - Daniels M22520/2-01
Positioner - Daniels M22520/2-13 – Pins
Daniels M22520/2-16 – Sockets
Insertion/Removal Tool - Glenair 809-088

Size 23 Sockets 10-597330-735
Size 23 Pins 10-597331-735
Sealing Plugs 10-405996-222 (M27488-22-2)

Temperature Range: -65C to 175C
Insulation Resistance: 5000 megohms min. @ 500 VDC 25C
Dielectric Withstanding Voltage: 1000 VRMS @ Sea level

Easy Steps to build a part number... HD38999



1. Connector Type	2. Shell Styles	3. Service Class	4. Shell Size – Insert arrangement	5. Contact Type	6. Alternate Positions	7. PCB Options
(P)TV	06	RW	23-151	P	B	(P25)

Step 1. Select a Connector Type

	Designates
TV	Tri-Start Series Connector
TVP	Back panel mounted receptacle
(P)	Potted version

Step 2. Select a Shell Style

	Designates
00	Wall mount receptacle
01	Line receptacle
06	Straight plug
07	Jam nut receptacle

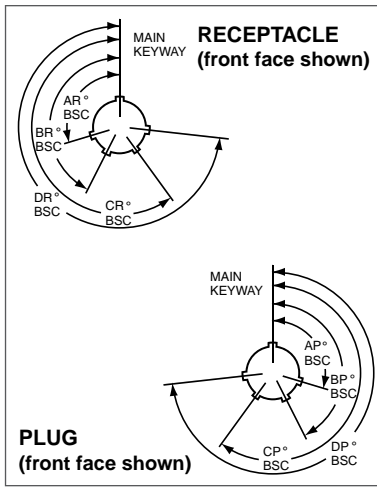
Step 3. Select a Service Class

	Designates
RF	Electroless nickel plated aluminum, optimum EMI shielding effectiveness -65dB @ 10GHz specification min., 48 hour salt spray, 175°C
RW	Corrosion resistant olive drab cadmium plate aluminum, 500 hour extended salt spray, EMI -50dB @ 10GHz specification min., 175°C
RK	Corrosion resistant stainless steel, plus 500 hour salt spray resistance, EMI -45 dB @ 10 GHz specification min., 175°C
DT	Durmalon plated, alternative to Cadmium. Corrosion resistant, 500 hour extended salt spray, EMI -50dB @ 10GHz specification min. without CR ⁶
ZN	Zinc-Nickel Alternative to Cadmium corrosion resistant, 500 hour salt spray, Conductive, -65°C to +175°C

Step 4. Select a Shell Size – Insert Arrangement

Shell Sizes are MIL-DTL-38999, Series III, plus newer High Density insert arrangements

Shell Size	Insert Arrangement	Shell Size	Insert Arrangement
9 – 9		19 – 88	
11 – 19		21 – 121	
13 – 32		23 – 151	
15 – 55		25 – 187	
17 – 73			



Step 6. Select an Alternate Position

A, B, C, D, E, blank for normal

Shell Size	Key & keyway arrangement identification letter	AR ⁶ or AP ⁶ BSC	BR ⁶ or BP ⁶ BSC	CR ⁶ or CP ⁶ BSC	DR ⁶ or DP ⁶ BSC
9	N*	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
11, 13, and 15	E	91	131	197	240
	N*	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
17 and 19	D	119	146	176	298
	E	51	141	184	242
	N*	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
21, 23, and 25	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
	N*	80	142	196	293
	A	135	170	200	310
and 25	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
25	E	79	153	197	272

A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The angles for a given connector are the same whether it contains pins or sockets. Inserts are not rotated in conjunction with the master key/keyway.

Step 5. Select a Contact Type

	Designates
P	Pin contacts
S	Socket contacts

Step 7. Select a PCB Contacts

Pin	Socket	Designates
P1	S1	PCB tail stickout .100" nominal +/- .040 inch
P15	S15	PCB tail stickout .150" nominal +/- .040 inch
P2	S2	PCB tail stickout .200" nominal +/- .040 inch
P25	S25	PCB tail stickout .250" nominal +/- .040 inch