

HD38999

High Density



Amphenol

High Performance Connectors!

Aluminum

Composite

Stainless Steel

Sealed

Filtered



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.

Amphenol Aerospace

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Goes from 9 to 187 contacts!

HD38999 is available in nine arrangements:

- 9-9
- 11-19
- 13-32
- 15-55
- 17-73
- 19-88
- 21-121
- 23-151
- 25-187



HD38999

High Density

30% more contacts



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CRIMP CONTACT SIZE

SAE 39029, Size 23

CURRENT CAPABILITY

Crimp: 5 amp

MAXIMUM MILIVOLT DROP

Crimp: 73 millivolt

CRIMP BARREL DIAMETER (INCHES)

.033" - .035"

CRIMP BARREL DEPTH (INCHES)

1.45" - 1.56"

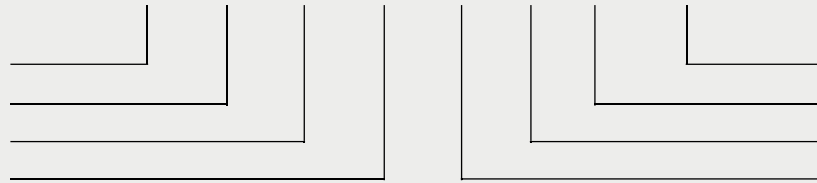
WIRE GAUGE

22 awg - 28 awg

PART NUMBERING

(P)TV 06 RW 23 - 151 P B (P25)

Connector Type
Shell Styles
Service Class
Shell Size



PCB Options
Alternate Positions
Contact Type
Insert Arrangement

Connector Type

- TV designates Tri-Start Series Connector
- TVP designates back panel mounted receptacle
- (P) designates potted version, sealing compound that prevents moisture up to 4.6×10^{-3} cc/sec
- (H) Hermetic - designates glass sealed version, provides air leakage limited to 1×10^{-7} cm³ per second

Shell Styles

- 00 designates wall mount receptacle
- 01 designates line receptacle
- 06 designates straight plug
- 07 designates jam nut receptacle

Service Class

- 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
- DN Durmalon plated, alternative to Cadmium. Corrosion resistant, 1,000 hour extended salt spray, EMI -50dB @ 10GHz specification min.
- Y Hermetic seal, passivated stainless steel, 200° C
- YN (Hermetic Connectors), nickel plated stainless steel, 200° C

Shell Size

Shell sizes are MIL-DTL-38999, Series III ranging from shell size 9-25

Insert Arrangement

New high density inserts range from 9 to 187 contacts: 9-9, 11-19, 13-32, 15-55, 17-73, 19-88, 21-121, 23-151, 25-187

Contact Type

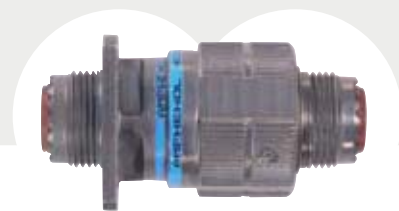
- (P) designates pin contacts
- (S) designates socket contacts

Alternate Positions

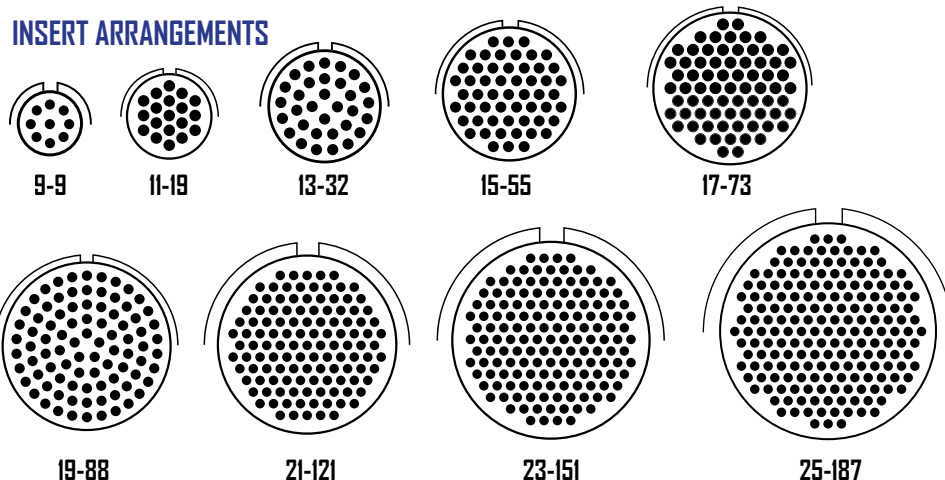
A, B, C, D, E, blank for Normal

PCB Contacts

- P1 PCB tail stickout .100" nominal +/- .030 inch
- P2 PCB tail stickout .200" nominal
- P25 PCB tail stickout .250" nominal



INSERT ARRANGEMENTS



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