

# The shape of things to come.

## R39

Amphenol's rectangular connector soars to meet higher expectations.

- Rectangular space savings
- Low profile
- High density 127 position inserts or mixed inserts with power, RF or fibre-optic available
- Blind mate
- Rugged
- Uses same contacts as standard 38999

Dynamically engineered for a changing world.





Everything you expect in a  
38999 and more...



## SPECIFICATIONS

### ELECTRICAL CHARACTERISTICS

#### DIELECTRIC WITHSTANDING VOLTAGE:

1500 VAC @ SEA LEVEL

500 VDC @ 70,000 FT.

INSULATION RESISTANCE: 5000 MEGOHMS @ 500 VDC

#### CONTACTS:

PER M39029/57 AND M39029/58 FOR SIGNAL AND POWER

PER M39029/102 AND 103 FOR COAX

FIBRE-OPTIC CONTACTS AVAILABLE

CONTACT TERMINATIONS: CRIMP, PCB, COMPLIANT

#### MATERIALS:

SHELL: ALUMINUM ALLOY

INSERT: THERMOPLASTIC PER MIL-P-46185

HARDWARE: CRES

CONTACT RETENTION: BeCu

#### AVAILABLE SHELL FINISHES:

ELECTROLESS NICKEL,

OD CHROMATE OVER CADMIUM

ZINC NICKEL

TIN

GOLD

#### ENVIRONMENTAL CHARACTERISTICS:

THERMAL SHOCK: MIL-STD-202, METHOD 107, COND. A

PHYSICAL SHOCK: MIL-STD-202, METHOD 213, COND. A

VIBRATION: MIL-STD-202, METHOD 204, COND. B

MOISTURE RESISTANCE: MIL-STD-202, METHOD 106 (OMIT 7a AND 7b)

DURABILITY: 500 CYCLES MATING/UN-MATING

# R39

Same outstanding quality and endurance.  
Increased flexibility and value.

The R39 provides high performance in the severe environment demands of military specifications. Its lower profile translates into a smaller space-saving footprint and the new rectangular orientation provides additional installation options. It is also available in a high density, 127 pin contact version providing a wider range of engineering applications. It delivers the same reliable, familiar benefits found in our 38999 connector: effortless installation; blind push pull mating; extreme durability; quick mate and; "scoop-proof" recessed pin design. Using the same wide range of contacts, and the crimp and insert /removal tooling as 38999, it delivers just a little more.

## Rectangular 38999

A m p h e n o l C u s t o m P r o d u c t s



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Helping to make design  
dreams reality.**

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