



Combo-D with High Efficiency Power Contacts: Smaller. Lighter. More Current Capacity.

ITT Cannon's innovative Combo-D with High Efficiency Power (HEP) Contacts feature canted coil spring technology that increases electrical current carrying capacity, improves efficiency and reduces costs.

Combo-D with HEP Contacts is the latest addition to the ITT Cannon Combination D-Subminiature product line. Engineered for use in a variety of markets and applications—from ordnance and military transports to shipboard radar and satellite systems—these versatile interconnect solutions help transmit more power in an increasingly connected world.

The Cannon Difference

- One of the first high power contacts with canted coil spring technology
- Offers up to 75% increase in electrical current carrying capacity over conventional high-power contacts
- Among the smallest, high performance designs available
- Offers exceptional versatility and use in a wide range of markets & applications



HEP Contacts Standard Contacts

Key Features

- Lower mating force enables easy, quick and convenient component connection and disconnection
- Innovative canted coil spring technology increases the 40A electrical current rating in a standard size 8 contact to a range of 65A to 70A, representing as much as a 75% increase
- Available in crimp, solder, PCB (straight, right angle) terminations
- HEP Contacts can be used in any Cannon brand or competitors' Combo-D connector
- Industry standard size 8 cavity can be retrofitted
- Must be used as a mated pair

Temperature Rise vs. DC Current (Two Sample Groups) 45.00 40.00 35.00 25.00 15.00 10.00 5.00 0.00 10 20 30 40 50 60 70 80 90 DC Current (A)

Markets & Applications









Military Vehicles

Satellite Systems

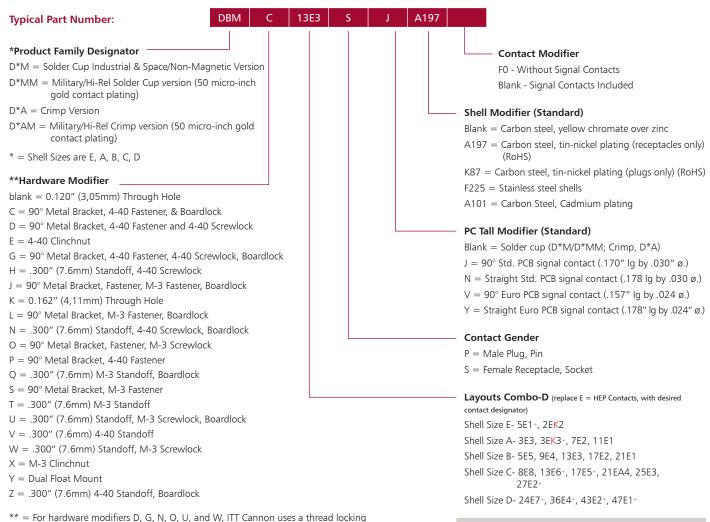
Shipboard Systems

Shipboard Radar

Combo-D with HFP Contacts



How to Order | Part Number Configurator



HEP Contact Part Numbers when Ordering without Contacts

separately as shown in the D-Subminiature accessories catalog

compound that makes removal of the screwlock difficult once installed. If this feature is

required, please order options without the screwlock and purchase female screwlocks

HEP Contact Type	Pin Part Number	Socket Part Number
Straight Crimp	031-1434-000	031-1432-000
Straight Solder Cup	031-1444-000	031-1445-000
Straight PCB	031-1446-000	031-1447-000
Right Angle PCB	031-1442-000	031-1443-000





Additional Size 8 Contact Designators Layouts

E = HEP contact installed or supplied loose

W = without Size 8 Contacts.

C = 75 Ohm Coax Contacts Installed

X = 50 Ohm Coax Contacts Installed

H = High Power Installed (US Standard)

P = High Power Installed (European)

V = High Voltage Installed (Cable and PCB only)

R = Mini Hi Power 90° installed

G = Guide pin or guide socket installed

Note- FO Contact Modified means no signal contacts

Not available for D*A and D*MA Crimp Versions

K = Indicates keyed layout where one cavity is opposite gender

Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT's Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT's Connector business, which also includes the Veam and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

Connect with your ITT Cannon representative today or visit us at ittcannon.com





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