

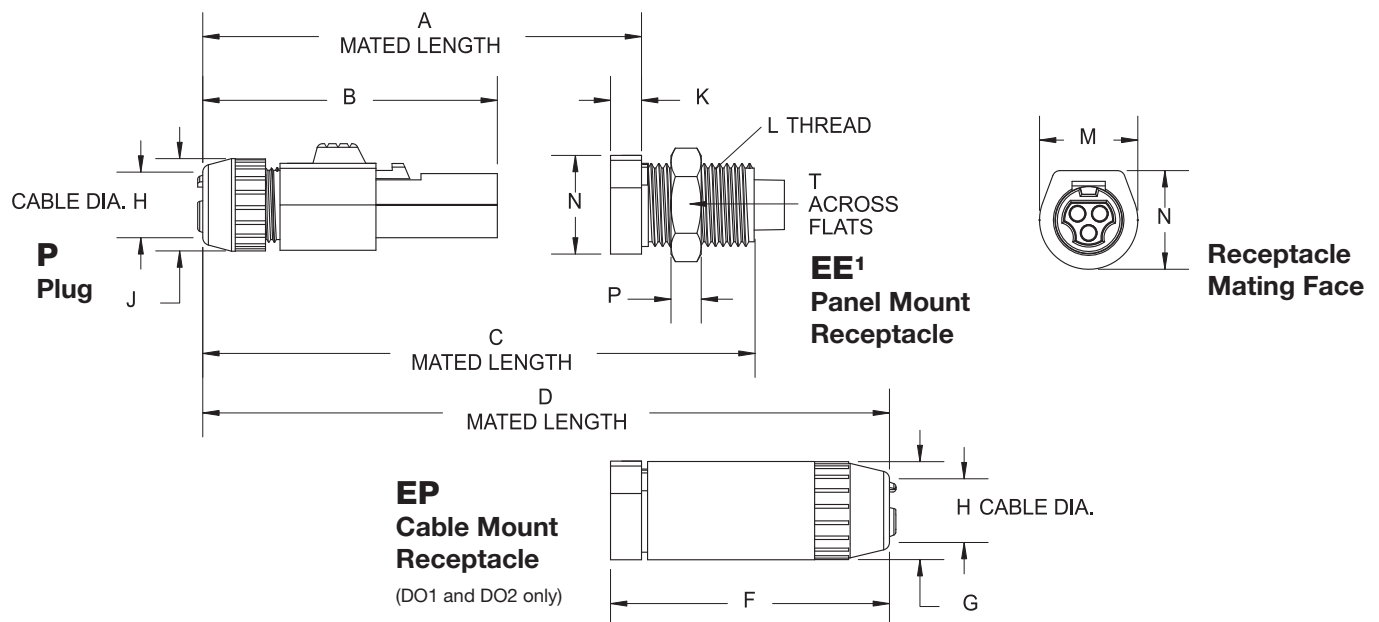


Circular Plastic Connectors

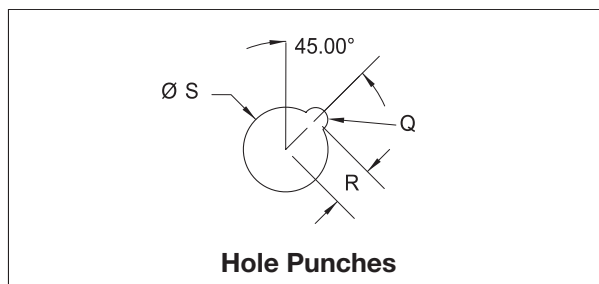
- 3, 4, 5, 7, 9, 12 and 25 position models
- 1 to 8 Amps per contact
- Mixed signal and power or coax available
- Reverse gender available
- High temp Polyetherimide ULTEM® plastic body
- Quick disconnect push button release
- Alignment and polarization provided by housing
- Crimp, solder cup, and pc contacts

ULTEM is a trademark of Sabic Innovative Plastics/PBV

Connector Dimensions



Mounting Dimensions



Series	Maximum Recommended Panel Thickness in Steel	Maximum Recommended Panel Thickness in Alum.
D00	0.048 [1.25]	0.075 [1.90]
D01	0.048 [1.25]	0.075 [1.90]
D02	0.062 [1.60]	0.094 [2.40]

NOTE:

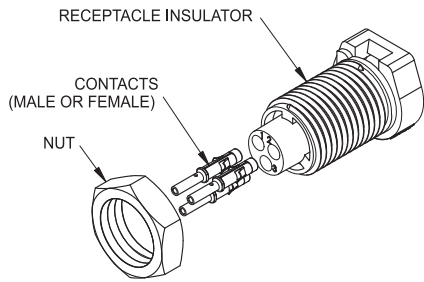
1) Recommended tightening torque for panel mount receptacle for both D01 and D02 is (0.452 to 0.678 Nm). For D00 (0.226 to 0.339 Nm).

Dimension	D00 Housing	D01 Housing	D02 Housing
A	0.788 [20.00]	1.142 [29.00]	1.358 [34.50]
B	1.096 [27.83]	1.614 [41.00]	1.950 [49.50]
C	1.181 [30.00]	1.732 [44.00]	2.087 [53.00]
D	N/A	2.400 [61.00]	2.953 [75.00]
F	N/A	1.500 [38.00]	1.772 [45.00]
G Dia.	N/A	0.512 [13.00]	0.709 [18.00]
H Cable Dia.	0.089 [2.50] Min. 0.158 [4.00] Max.	0.118 [3.00] Min. 0.216 [5.50] Max.	0.197 [5.00] Min. 0.315 [8.00] Max.
J Dia.	0.352 [8.94]	0.472 [12.00]	0.709 [18.00]
K	0.114 [2.88]	0.161 [4.10]	0.276 [7.00]
L	M8 X 1.00 Thd.	M11 X 1.00 Thd.	M15 X 1.00 Thd.
M	0.323 [8.20]	0.512 [13.00]	0.669 [17.00]
N	0.320 [8.12]	0.512 [13.00]	0.689 [17.50]
P	0.079 [2.00]	0.157 [4.00]	0.153 [3.89]
Q Dia.	0.092 [2.34]	0.126 [3.20]	0.100 [2.54]
R	0.161 [4.10]	0.220 [5.60]	0.295 [7.50]
S Dia.	0.323 [8.20]	0.441 [11.20]	0.598 [15.19]
T	0.394 [10.00]	0.512 [13.00]	0.744 [18.90]

Dimensions are in inches [mm]

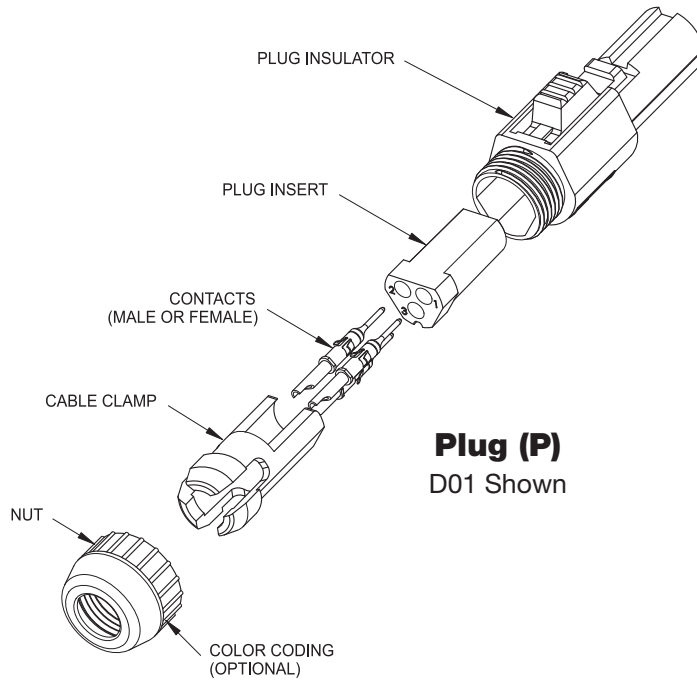
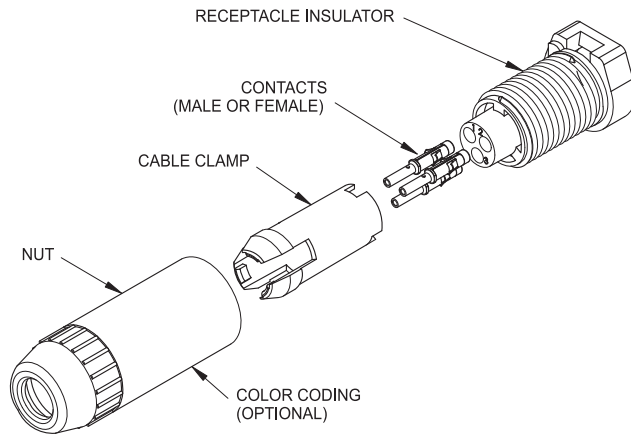
Panel Mount Receptacle (EE)

D01 Shown



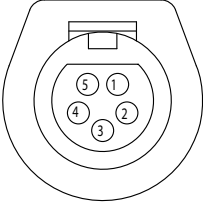
Cable Mount Receptacle (EP)

D01 Shown



Plug (P) D01 Shown

Dimensions are in inches [mm]






D00 General Specifications	
Number of Contacts	5
Contact Diameter	0.012 [0.30]
Current Rating (Amps)	1.0
Contact Resistance (milliohms)	< 6.7
Extraction Force Per Contact (oz.)	0.35 to 1.60
Insulation Resistance	> 10 ³ megohms at 500 VDC
Contact Life Cycles	up to 100,000
Breakdown Voltage Between Contacts (min.)	1000V
Dielectric Withstanding Voltage	750V
Insulator Material	Polyetherimide (ULTEM®)
Contact	
Socket Material	Beryllium copper wires and brass body
Pin Material	Phosphorus Bronze
Plating Material	Gold over nickel (mating surfaces)
Termination Styles Available	
Crimp (Pin and Socket)	26 to 28 AWG
Solder (Pin and Socket)	up to 26 AWG
Temperature Rating	-40° C to 125° C

Dimensions are in inches [mm]

D01 General Specifications			
Number of Contacts	3	4	9
Contact Diameter	0.024 [0.60]		0.016 [0.40]
Current Rating (Amps)	4.0		1.0
Contact Resistance (milliohms)	< 5.0		< 8.0
Extraction Force Per Contact (oz.)	0.50 to 2.00		0.60 to 1.60
Insulation Resistance	> 10 ³ megohms at 500 VDC		
Contact Life Cycles	up to 100,000		
Breakdown Voltage Between Contacts (min.)	2250V		1000V
Dielectric Withstanding Voltage	1650V		750V
Insulator Material			
Temperature Rating			
Polycarbonate (D01 - 3 and 4 pin only)	-40° C to 85° C		-
Polyetherimide (D01 - 9 pin only)	-		-40° C to 125° C
Contact			
Socket Material	Beryllium copper wires and brass body		
Pin Material	Brass and Phosphorus Bronze		
Plating Material	Gold over nickel (mating surfaces)		
Termination Styles Available			
Crimp (Pin and Socket)	22 to 26 AWG		26 to 28 AWG
Crimp (Pin and Socket)	18 to 20 AWG		-
Solder Cup (Pin and Socket)	up to 22 AWG		up to 26 AWG

Accessories	D01		D00	D01
Number of Contacts	3	4	5	9
Crimp Tool	AFM8 or (M22520/2-01)			
Positioner	K547		K1775	T1914
Removal Tool	S/DEM1.0060		-	
Insertion Tool	T1866		T2080	

Dimensions are in inches [mm]

D02 General Specifications					
Number of Contacts	3	7	9	12	25
Contact Diameter	0.059 [1.50]	0.024 [0.60]	0.024 [0.60]	0.018 [0.50]	0.016 [0.40]
Current Rating (Amps)	8.0	4.0	4.0	2.5	1.0
Contact Resistance (milliohms)	< 2.0	< 5.0	< 5.0	< 8.0	< 8.0
Extraction Force Per Contact (oz.)	1.80 to 5.40	0.50 to 2.00	0.50 to 2.00	0.30 to 1.60	0.30 to 1.60
Insulation Resistance	> 10 ³ megohms at 500 VDC				
Contact Life Cycles	up to 100,000	up to 100,000	up to 100,000	up to 100,000	up to 100,000
Breakdown Voltage Between Contacts (min.)	2250	2000	1560	1000	1000
Dielectric Withstanding Voltage	1650	1500	1150	750	750
Insulator Material					
Temperature Rating					
Polycarbonate (D02 - 3, 7, 9 and 12 pin only)	-40° C to 85° C				-
Polyetherimide (D02 - 25 pin only)	-				-40° C to 125° C
Contact					
Socket Material	Beryllium copper wires and brass body				
Pin Material	Brass and Phosphorus Bronze				
Plating Material	Gold over nickel (mating surfaces)				
Termination Styles Available					
Crimp (Pin and Socket)	18 to 20 AWG	22 to 26 AWG			26 to 28 AWG
Solder Cup (Pin and Socket)	up to 16 AWG	up to 22 AWG			up to 26 AWG

Accessories				
Number of Contacts	3	7 and 9	12	25
Crimp Tool	AF8	AFM8 or M22520/2-01		
Positioner	TP688	K623	T870	T1914
Removal Tool	S/DEM5.0150	S/DEM1.0060	-	-
Insertion Tool	T1888	T1866	T1271	T2080

Dimensions are in inches [mm]

Combination Connectors Power and Signal

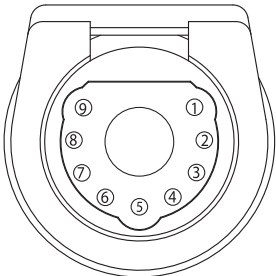
• Two 8 Amp and seven 2.5 Amp Signal Contacts • Crimp Contacts (ARINC)

<p>D02 Power and Signal</p> <p>Receptacle seen from mating face</p>	Housing Options		
	Receptacle Panel Mount Plug		
	Contact Options		
	Termination Styles Available Crimp (Pin and Socket)	Power 16 to 20 AWG	Signal 22 to 26 AWG
Accessories			
Crimp Tool	Power AF8	Signal AFM8	
Crimp Positioner (Pin)	T1164	T870	
Crimp Positioner (Socket)	TP688	T870	
Removal Tool	T1124	—	
Insertion Tool	T1888	T1215	

General Specifications		
Contacts	Power	Signal
Number of Contacts	2	7
Diameter	0.059 [1.50]	0.018 [0.50]
Current Rating (Amps)	8.0	2.5
Contact Resistance	< 2.0 milliohms	< 8.0 milliohms
Extraction Force Per Contact (oz.)	1.80 to 5.40	0.30 to 1.60
Insulation Resistance	> 10 ³ megohms at 500 VDC	
Contact Material		
Pins	Brass	
Sockets	Beryllium copper wires and brass body	
Flammability	UL94V0	
Insulator Material	Polycarbonate	
Temperature Rating	-40° C to 125° C	

Dimensions are in inches [mm]

Combination Connectors Coax or Power and Signal

<p>D02 Coax or Power and Signal</p>  <p>Receptacle seen from mating face</p>	Housing Options			
	Receptacle Panel Mount Receptacle Cable Plug			
	Contact Options			
	Termination Styles Available	Coaxial	Power	Signal
Crimp (Pin and Socket)	RG316	12 AWG	22 to 26 AWG	
Crimp (Pin and Socket)	RG316DB	N/A	N/A	
Solder (Pin and Socket)	RG405	N/A	22 to 26 AWG	
Solder (Pin and Socket)	T-Flex 405	N/A	N/A	
Accessories				
Crimp Tool	Coaxial HX3 (Outer) AFM8 (Inner)	Power M309	Signal AFM8	
Crimp Die Set	T1958 (Outer) or T2019 (Outer for RG316DB)	-	-	
Crimp Positioner	T1957 (Inner)	T1981	T870	
Removal Tool	T1982	T1982	-	
Insertion Tool	-	-	T1215	

General Specifications			
Contacts	Power/Coax		Signal
	Power	Coax	
Number of Contacts	1 (either Power or Coax)		9
Diameter	0.098 [2.50]	0.124 [3.15]	0.018 [0.50]
Current Rating (Amps)	25.0		2.5
Voltage Standing Wave Ratio		(DC to 3.0 GHz) 1.20:1 max. (3.0 GHz to 18.0 GHz) 1.50:1 max.	
Contact Resistance			
Discrete Contacts	< 1.5 max.		< 8.0 max.
Inner Contact (milliohms)		8.0 max.	
Outer Contact (milliohms)		2.0 max.	
Extraction Force Per Contact (oz.)	6.00 to 25.00 oz.	1.50 to 6.00 oz. max., 3.00 oz. average	0.30 to 1.60 oz.
Insulation Resistance	> 10 ³ megohms at 500 VDC		
Contact Material			
Pins	Brass/Gold over nickel		
Sockets	Beryllium copper wires and brass body/Gold over nickel on wires & termination		
Insulator Material			
Receptacle Plug	Polyetherimide ULTEM®		
Flammability	UL94V0		
Temperature Rating	-40° C to 125° C		

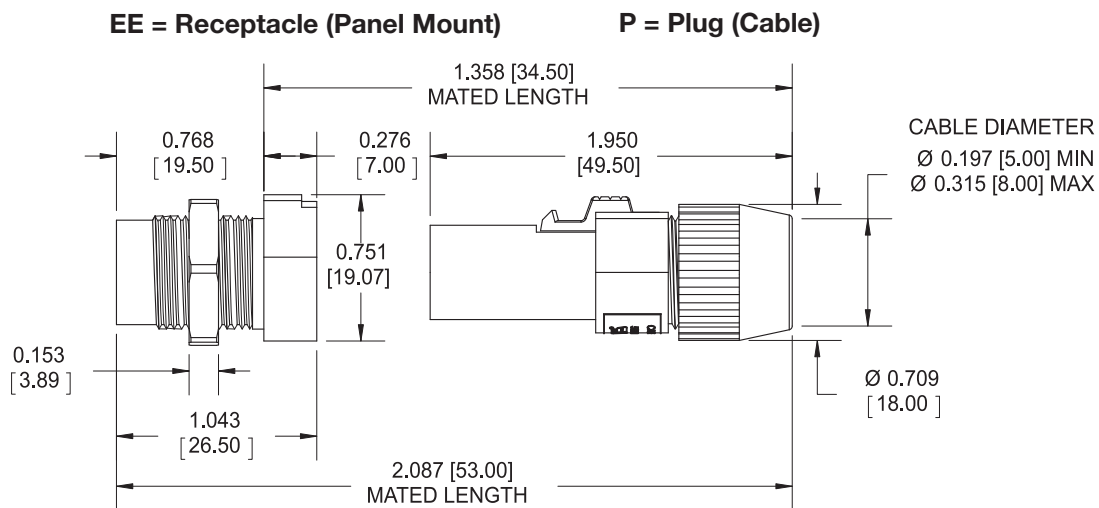
Dimensions are in inches [mm]



ARINC 628 Circular Connectors

- Industry standard
- 2 Power and 2 signal contacts
- Optional 5 signal positions
- Quick disconnect push button release
- Alignment and keying provided by housing
- Crimp contacts

Connector Dimensions

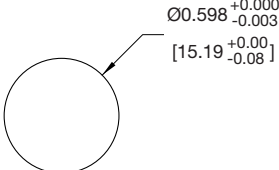


General Specifications		
Contacts	Power	Signal
Number of Contacts	2	2
Diameter	0.059 [1.50]	0.018 [0.50]
Current Rating (Amps)	8.0	2.5
Wire Size (AWG)	16 – 20	22 – 26
Contact Resistance (milliohms)	< 2.0	< 8.0
Extraction Force Per Contact (oz.)	1.80 to 5.40	0.30 to 1.60
Insulation Resistance	> 10 ³ Mohm at 500 VDC	
Insulator Material	Polycarbonate	
Receptacle	Polycarbonate	
Plug	Polycarbonate	
Contact Plating	Gold over nickel	
Male Pins	Gold over nickel	
Female Sockets	Gold over nickel	
Contact Material	Brass	
Pins	Beryllium copper wires and brass body	
Sockets	Beryllium copper wires and brass body	
Flammability	UL94V0	
Temperature Rating	-40° C to 85° C	

NOTE:
 1) Recommended tightening torque for panel mount receptacle for both D01 and D02 is (0.452 to 0.678 N•m).

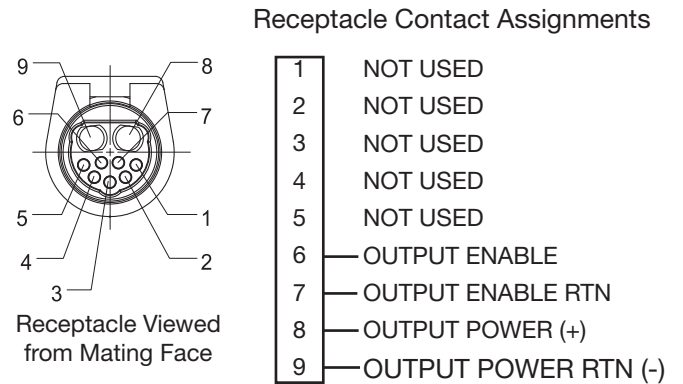
Dimensions are in inches [mm]

Mounting Dimensions



Mounting Plate Material	Maximum Recommended Thickness to Use Hole Punch
Steel	0.062 [1.60]
Other	0.094 [2.40]

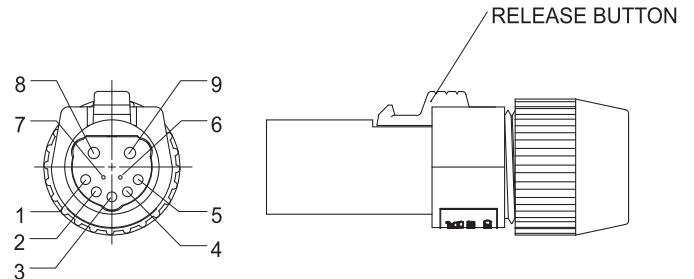
Typical Application Wiring (Connectors Are Not Shipped Pre-Wired) In-Seat Power Interfaces



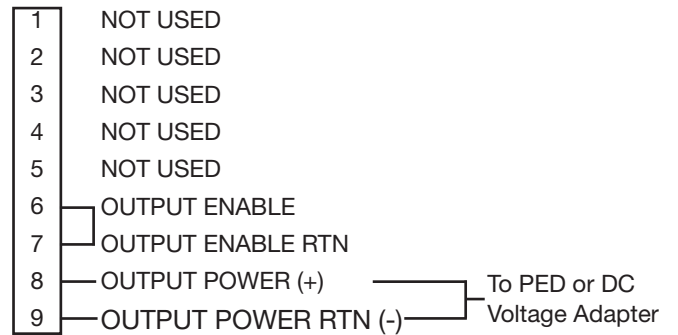
Power contact in position 8 and 9 only.
Signal contacts in positions 6 and 7 only.

Power or Adapter Cable Plug

Accessories		
	Power	Signal
Crimp Tool	AF8	AFM8
Positioner (Pin)	T1165	T870
Positioner (Socket)	TP688	T870
Removal Tool	T1124	—
Insertion Tool	T1888	T1215



Plug Contact Assignments

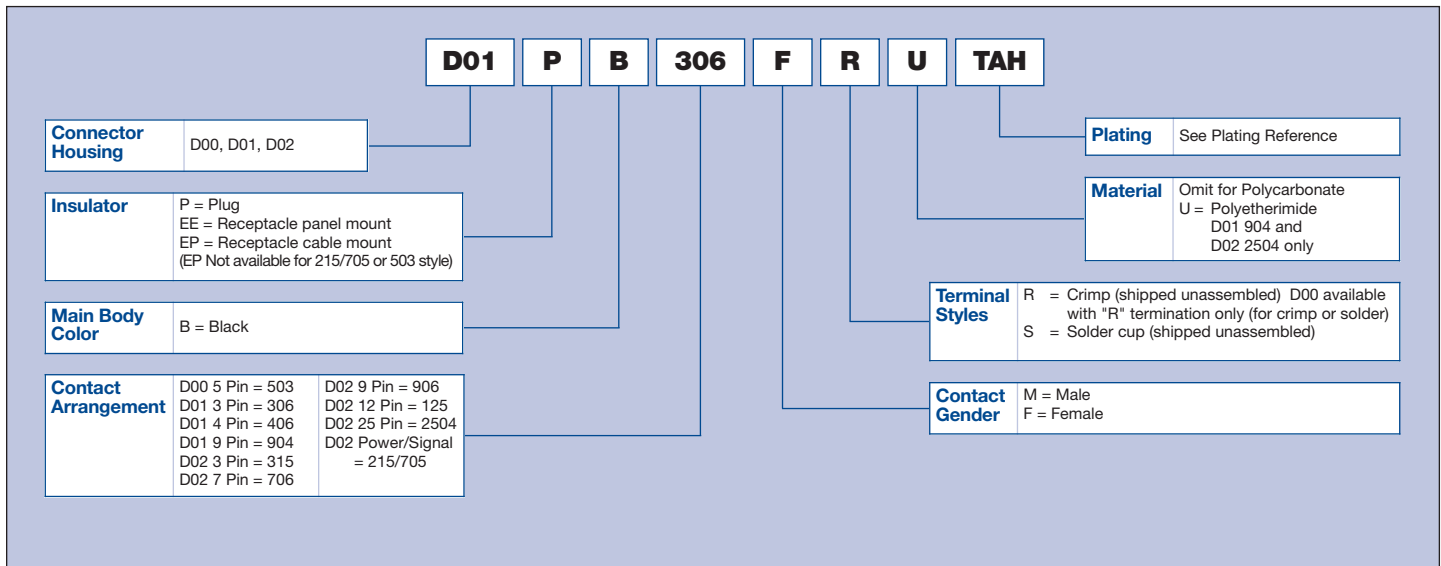


Ordering Information

Male Plug	Plating
D02PBMRT-0024	10µin gold (min) over nickel
D02PBMRTH-0025	50µin gold (min) over nickel
Female Receptacle	
D02EEBFRTAH-0022	50µin gold (min) over nickel on mating surface, and gold flash over nickel on socket bodies

NOTE:
1) Connectors are not shipped pre-wired.

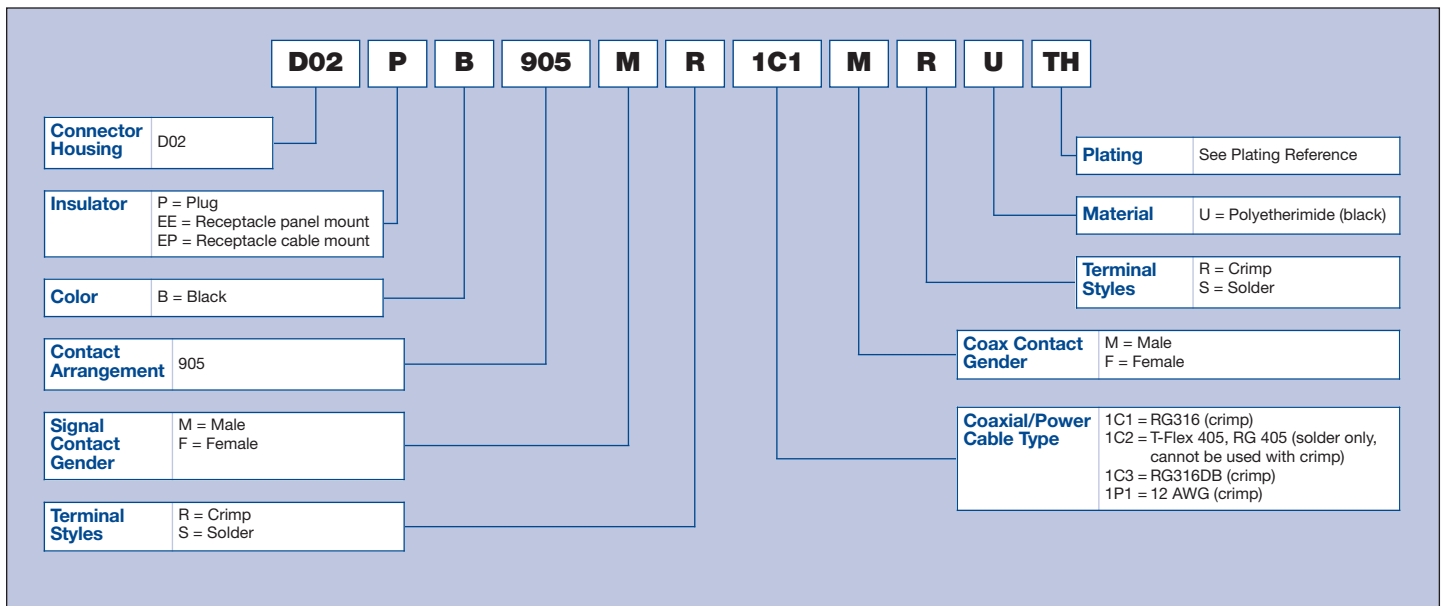
Ordering Information



D00 panel mount receptacle with 6" pigtail leads preterminated= D00EEB-0001

** Other receptacle mounting options available; see <http://www.hypertronics.com/en/Products/circular-connectors/D-Series.aspx> or call +1 (978) 568-0451 for more information.

D02 Coax or Power and Signal Ordering Information



Plating Reference	
Male Pins:	T = 10µin gold (min) over nickel (Not available on D00) TH = 50µin gold (min) over nickel
Female Sockets:	TAH = 50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

Dimensions are in inches [mm]