

# General Specifications

(Contact arrangements & technical characteristics)

## Mini D00 series

### Standard



Receptacle seen from mating face

Number of Contacts	5
Contact Diameter	0.012 (0.30)
Termination Style	Crimp (pin & socket) 26 to 28 AWG

### Materials & Finishes

Insulator	Polyetherimide
Socket	Beryllium copper wires and brass body
Pin	Phosphor bronze
Mating Surface Plating	Gold over nickel

### Electrical

Current Rating	1.0 A
Contact Resistance	< 6.7 mΩ
Breakdown Voltage Between Contacts	1000 V min.
DWV	750 V
Insulation Resistance	> 10 <sup>3</sup> MΩ at 500 VDC

### Mechanical & Environmental

Contact Mating Cycle Life	Up to 100,000
Extraction Force	0.35 to 1.60 oz. per contact
Operating Temperature Rating	-40° to 125° C

### Accessories

Crimp Tool	AFM8 or M22520/2-01
Positioner	K1775
Insertion Tool	T2080

Dimensions are in inches (mm)

All specifications are subject to change without notice

## D01 series

## Standard



Receptacles seen from mating face

Number of Contacts	3	4	9
Contact Diameter	0.024 [0.60]		0.016 (0.40)

## Terminations

Crimp (pin & socket)	22 to 26 AWG	26 to 28 AWG
Solder Cup (pin & socket)	Up to 22 AWG	Up to 26 AWG

## Materials &amp; Finishes

Insulator	Polycarbonate	Polyetherimide
Socket	Beryllium copper wires and brass body	
Pin	Brass or phosphor bronze	
Mating Surface Plating	Gold over nickel	

## Electrical

Current Rating	4.0 A	1.0 A
Contact Resistance	< 5.0 mΩ	< 8.0 mΩ
Breakdown Voltage Between Contacts	2250 V min.	1000 V min.
DWV	1650 V	750 V
Insulation Resistance	> 10 <sup>3</sup> MΩ at 500 VDC	

## Mechanical &amp; Environmental

Contact Mating Cycle Life	Up to 100,000	
Extraction Force	0.50 to 2.00 oz. per contact	0.30 to 1.60 oz. per contact
Operating Temperature Rating	-40° to 85° C	-40° to 125° C

## Accessories

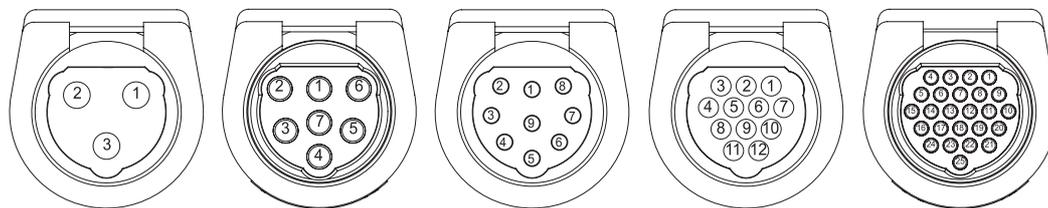
Crimp Tool	AFM8 or M22520/2-01	
Positioner	K547	T1914
Extraction Tool	S/DEM1.0060	—
Insertion Tool	T1866	T2080

Dimensions are in inches (mm)

All specifications are subject to change without notice

## D02 series

### Standard



Receptacles seen from mating face

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)

### Terminations

Crimp (pin & socket)	18 to 20 AWG	22 to 26 AWG		26 to 28 AWG
Solder Cup (pin & socket)	Up to 16 AWG	Up to 22 AWG		up to 26 AWG

### Materials & Finishes

Insulator	Polycarbonate			Polyetherimide
Socket	Beryllium copper wires and brass body			
Pin	Brass or phosphor bronze			
Mating Surface Plating	Gold over nickel			

### Electrical

Current Rating	8.0 A	4.0 A	4.0 A	2.5 A	1.0 A
Contact Resistance	< 2.0 mΩ	< 5.0 mΩ	< 5.0 mΩ	< 8.0 mΩ	< 8.0 mΩ
Breakdown Voltage Between Contacts	2250 V min.	2000 V min.	1560 V min.	1000 V min.	1000 V min.
DWV	1650 V	1500 V	1150 V	750 V	750 V
Insulation Resistance	> 10 <sup>3</sup> MΩ at 500 VDC				

### Mechanical & Environmental

Contact Mating Cycle Life	Up to 100,000				
Extraction Force (oz. per contact)	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
Operating Temperature Rating	-40° to 85° C			-40° to 125° C	

### Accessories

Crimp Tool	AF8	AFM8 or M22520/2-01		
Positioner	TP688	K547	T870	T1914
Extraction Tool	S/DEM5.0150	S/DEM1.0060	—	—
Insertion Tool	T1888	T1866	T1271	T2080

Dimensions are in inches (mm)

All specifications are subject to change without notice

## D02 series

## Power &amp; Signal



Receptacles seen from mating face

## POWER

## SIGNAL

Number of Contacts	2	7
Contact Diameter	0.059 (1.50)	0.018 (0.50)
Termination Style	Crimp (pin & socket) 16 to 20 AWG	Crimp (pin & socket) 22 to 26 AWG

## Materials &amp; Finishes

Insulator	Polycarbonate	
Socket	Beryllium copper wires and brass body	
Pin	Brass	
Mating Surface Plating	Gold over nickel	

## Electrical

Current Rating	8.0 A	2.5 A
Contact Resistance	< 2.0 mΩ	< 8.0 mΩ
Insulation Resistance	> 10 <sup>3</sup> MΩ at 500 VDC	

## Mechanical &amp; Environmental

Extraction Force	1.80 to 5.40 oz. per contact	0.30 to 1.60 oz. per contact
Operating Temperature Rating	-40° to 85° C	

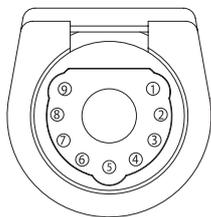
## Accessories

Crimp Tool	AF8	AFM8
Positioner	T1164 (pin) TP688 (socket)	T870
Extraction Tool	T1124	—
Insertion Tool	T1888	T1215

Dimensions are in inches (mm)

## D02 series

### Coax or Power & Signal



Receptacles seen from mating face

#### POWER

#### COAX

#### SIGNAL

<b>Number of Contacts</b>	<b>1</b> (either Power or Coax)		<b>9</b>
<b>Contact Diameter</b>	0.098 (2.50)	0.124 (3.15)	0.018 (0.50)

#### Termination Style

<b>Crimp</b> (pin & socket)	12 AWG	RG316 or RG316DB	22 to 26 AWG
<b>Solder Cup</b> (pin & socket)	—	RG405 or T-Flex 405	Up to 22 AWG

#### Materials & Finishes

<b>Insulator</b>	Polyetherimide		
<b>Socket</b>	Beryllium copper wires and brass body		
<b>Pin</b>	Brass or phosphor bronze		
<b>Mating Surface Plating</b>	Gold over nickel		

#### Electrical

<b>Current Rating</b>	25 A	—	2.5 A
<b>Contact Resistance</b>			
<b>Discrete Contacts</b>	< 1.5 max.	—	< 8.0 max.
<b>Inner Contact</b>	—	8.0 mΩ max.	—
<b>Outer Contact</b>	—	2.0 mΩ max.	—
<b>Insulation Resistance</b>	> 10 <sup>3</sup> MΩ at 500 VDC		

#### Mechanical & Environmental

<b>Extraction Force</b> (oz. per contact)	6.00 to 25.00	1.50 to 6.0 (3.00 average)	0.30 to 1.60 oz. per contact
<b>Operating Temperature Rating</b>	-40° to 125° C		

#### Accessories

<b>Crimp Tool</b>	M309	HX3 (outer) AFM8 (inner)	AFM8
<b>Crimp Die Set</b>	—	T1958 (outer) T2019 (outer for RG316DB)	—
<b>Positioner</b>	T1981	T1957 (inner)	T870
<b>Extraction Tool</b>	T1982	T1982	—
<b>Insertion Tool</b>	—	—	T1215

Dimensions are in inches (mm)