

# Hi-Speed HiPer-D® Connectors



280-082P pin connector with size #8 coax, twinax, quadrax and El Ochito® (octaxial) contacts



- Rugged machined one-piece shell
- Coax, twinax, quadrax, and El Ochito® contacts
- Easy contact installation and removal
- Fits panel footprint of M24308 D-Sub products

### Technical Data

#### Specifications

- Operating temperature: -65 °C. to +200 °C.
- Durability: 500 mating cycles
- Shock: EIA-364-27 condition E
- Vibration: EIA-364-28 condition IV
- Humidity: EIA-364-31 condition 4
- Salt spray: EIA-364-26 condition B
- Maximum Mating Force:
  - shell size 1: 10 lbs.
  - shell size 2: 17 lbs.
  - shell size 3: 28 lbs.
  - shell size 4: 39 lbs.

#### Construction

- Shell: aluminum alloy
- Ground spring: beryllium copper, nickel plated
- Retainers: aluminum aluminum alloy
- Screws: stainless steel, passivated

The Hi-Speed HiPer-D® is a M24308-type connector with keyed cavities for size 8 coax, twinax, quadrax and El Ochito® contacts. The Hi-Speed HiPer-D® pin connector features a one piece rugged machined aluminum metal housing and an optional ground spring for improved resistance to electromagnetic interference. Easy contact installation and removal, no tool required. Aluminum retainers captivate contacts. Available with 1, 2, 3, 4 or 5 cavities, these high-density connectors provide size and weight savings compared to circular connectors. Hi-Speed, HiPer-D® connectors fit standard M24308 panel cutouts. Hi-Speed, HiPer-D® connectors are non-environmental.

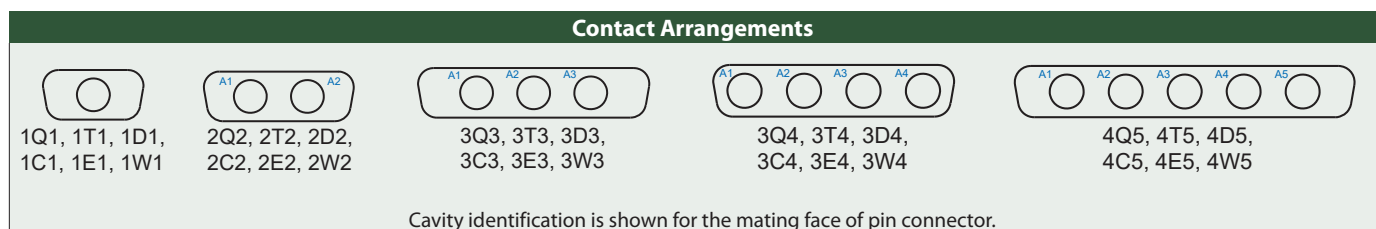
### Ordering Information

Sample Part Number	280-082P	2Q2	ME	G	N	-05
<b>Basic Part Number</b>	280-082P					
<b>Shell Size- Insert Arrangement</b>	See Table 1					
<b>Shell Finish</b> <i>(See Section A for Additional Finishes)</i>	ME = Electroless Nickel MT = Nickel-PTFE Z2 = Gold over Electroless Nickel JF = Yellow Chromate over Cadmium					
<b>Ground Spring</b>	G = Supplied with EMIGround Spring N = No Ground Spring					
<b>Mating Hardware</b> <i>(See Table 3 for details)</i>	N = No Hardware (Through-Hole) P = #4-40 Female Jackpost L = Captive Jackscrew, Hex Head, Low Profile K = Slot Head Jackscrew, Extended Length S = Screwlock, Male, Hex Head, Low Profile T = Screwlock, Male, Slot Head, Extended Length					
<b>Hi-Speed Contact Option</b>	See Table 2 for contact dash numbers. Omit if ordered less contacts.					

Table 1  
Shell Size – Insert Arrangement

Shell Size	No of Contacts	Coax	Differential Twinax	Concentric Twinax	Quadrax	Ochito (Octo-Ax)	Less Contacts
1	1	1C1	1D1	1T1	1Q1	1E1	1W1
2	2	2C2	2D2	2T2	2Q2	2E2	2W2
3	3	3C3	3D3	3T3	3Q3	3E3	3W3
3	4	3C4	3D4	3T4	3Q4	3E4	3W4
4	5	4C5	4D5	4T5	4Q5	4E5	4W5

### Contact Arrangements



Cavity identification is shown for the mating face of pin connector.

## 280-082P pin connector with size #8 coax, twinax, quadrax and El Ochito® (octaxial) contacts

Table 2 Size 8 Pin Contacts for 280-082P Connectors			
Contact Type	Dash No.	Cable Type	Ref. Contact Part Number*
<b>Coax</b> (1C1, 2C2, 3C3, 3C4, 4C5)	-01	RG316DS	852-110-01
	-02	RG316	852-110-02
	-03	RG142, RG400	852-110-03
<b>Concentric Twinax</b> (1T1, 2T2, 3T3, 3T4, 4T5)	-01	0024A0024 (TE) GSC-03-81416-00 (Gore)	853-011
	-02	M17176-00002	853-003-08-625
<b>Differential Twinax</b> (1D1, 2D2, 3D3, 3D4, 4D5)	-01	RCN8945 (Gore)	853-014-01
	-02	GSC-03-83971-00 (Gore)	853-014-02
	-03	10612 (TE)	853-014-03
	-04	0024A0024 (TE)	853-014-04
	-05	M17176-00002 5M2022-003	853-014-05
	-06	1350SB (Belden)	853-014-06
	-07	2525B0524 (TE)	853-014-07
<b>Quadrax</b> (1Q1, 2Q2, 3Q3, 3Q4, 4Q5)	-01	NF26Q100-01 (Carlisle)	854-001-01
	-02	E51424 (PIC) NF24Q100-01 (Carlisle)	854-001-02
	-03	NF26Q100-01 (Carlisle) E51426 (PIC)	854-001-03
	-04	F 4704-4 (Draka) E50424 (PIC)	854-001-04
	-05	NF22Q100-01	854-001-05
<b>El Ochito®</b> (1E1, 2E2, 3E3, 3E4, 4E5)	-01	E6A326 (PIC)	858-003-01
	-02	RCN9047-26 (Gore)	858-016-01

\* Refer to the RF Datalink & Contacts Catalog for detailed information

### 280-082P DIMENSIONS

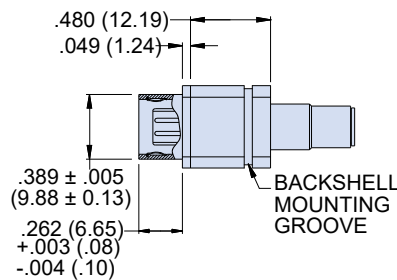
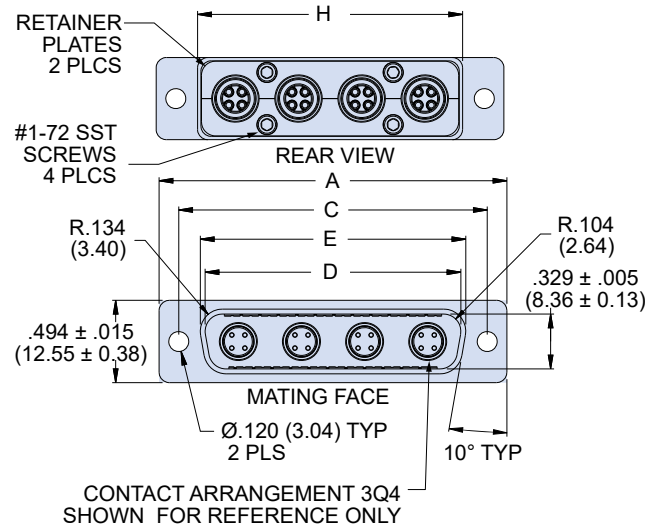


Table 3 Mating Hardware		
N Thru-Hole, No Hardware	P Female Jackpost	L Captive Jackscrew, Hex Head, Low Profile
K Slot-Head Extended Jackscrew	S Captive Screwlock, Hex Head, Low Profile	T Slot-Head Extended Length, Screwlock

Shell Size	Dimensions									
	A		C Basic		D		E		H	
	In. ±.015	mm. ±0.38	In.	mm.	In. ±.005	mm. ±0.13	In. ±.005	mm. ±0.13	In. ±.005	mm. ±0.13
1	1.213	30.81	0.984	24.99	0.666	16.92	0.726	18.44	0.745	18.92
2	1.541	39.14	1.312	33.32	0.994	25.25	1.054	26.77	1.075	27.31
3	2.088	53.04	1.852	47.04	1.534	38.96	1.594	40.49	1.615	41.02
4	2.729	69.32	2.500	63.50	2.182	55.42	2.242	56.95	2.260	57.40

### NOTES

- Connectors are supplied with unassembled contacts.
- 280-082P pin connectors are intermateable with cable-mount 280-083S socket connectors and with 280-085S and 280-091S printed circuit board connectors.
- When rear panel mounting, order connector without hardware (N option) and order jackpost kit 289-015 separately.
- Connectors are compatible with HiPer-D® protective covers and 289T100 and 289T101 HiPer-D® backshells.