

**Size 8 Contacts**

**Performance Characteristics**

**Frequency Range** — C to 500 MHz  
**Operating Voltage, Max.** — 275 vac rms @ sea level  
**Termination Resistance, Max.**  
 Center Contact — 6.0 milliohms  
 Outer Contact — 3.0 milliohms  
**Insulation Resistance, Min.** — 5,000 megohms @ 500 vdc  
**Dielectric Withstanding Voltage** —  
 Sea Level — 800 Volts rms  
 30,000 ft [9,144 m] — 525 volts rms  
 70,000 ft [21,336m] — 275 volts rms  
**VSWR to 500MHz, Max.**

Pin/Socket	VSWR
Straight/Straight	1.30
Right-Angle/Straight	1.35
Right-Angle/Right-Angle	1.40

**RF Crosstalk** — 90dB @ 5-500 MHz  
**Mating Force, Max.** — 4.0 lb [17.8 N]  
**Unmating Force, Min.** — 2.0 oz [0.556 N]  
**Contact Retention** — 20 lb [89 N]  
**Contact Durability** — 500 cycles

Cable RG/U	Force	
	lb	(N)
316, 188, 174, 179, 179A, 179B	20	89
183-type Double-Braid	35	155.8
142, 142A, 142B	50	222.5

**Operating Temperature** — 55°C to +125°C  
**Thermal Shock** — 55°C to +125°C per MIL-STD-1344, Method 1003, Cond. A  
**Physical Shock** — 50 G's per MIL-STD-1344, Method 2004, Cond. A  
**Vibration** — MIL-STD-1344, Method 2005, Cond. II

**Moisture Resistance** — 240 hours per MIL-STD-1344, Method 1002, Cond. II  
**Salt Fog** — 48 hours per MIL-STD-1344, Method 1001 Cond. B

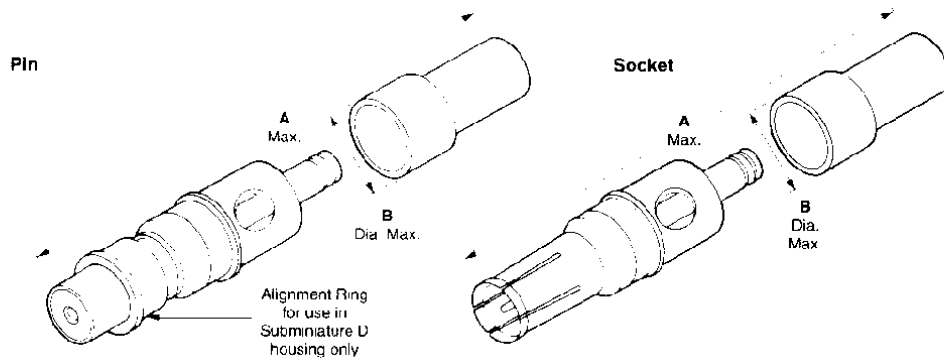
**Extraction Tool Numbers**  
**Subminiature D Housings** — 58095-1 (AMPLIMITE)  
**AMP-HDI Housings** — 58095-2

**Related Catalogs**  
 Subminiature D Housings 82069  
 AMP-HDI: 82618

**Material**  
**Brass** — per QQ-B-626 and MIL-C-50  
**Phosphor Bronze** — per QQ-B-750  
**Beryllium Copper** — per QQ-C-530  
**TEFLON** — per MIL-P-19468  
**Nylon** — per MIL-M-20693

**Finish**  
**Bright Tin-Lead Plating** — per ASTM-B-571  
**Copper Plating** — per MIL-C-14550  
**Gold Plating** — per MIL-C-45204  
**Nickel Plating** — per QQ-N-290

**Straight Contacts**



RG/Cable	Shell Type	Dimensions		Die Insert*	50 ohm		Non-Impedance Matched	
		A	B		Pin	Socket	Pin	Socket
178, 178A, 178B, 196, 196A	Brass	24.13 .950	5.94 .234	59993-1	—	—	228616-5	228596-5
174, 316, 188, 188A	Brass	24.28 .956	5.94 .234	59993-1	221980-1	221981-1	228618-1	228596-1
	Diecast	24.28 .956	5.94 .234	59993-1	415367-1	415366-1	415369-1	415368-1
179, 179A, 179B, 187, 187A, 181, Belden 9221	Brass	24.28 .956	5.94 .234	59993-1	221980-3	221981-3	228618-2	228596-2
	Diecast	24.28 .956	5.94 .234	59993-1	—	—	415369-3	415368-3
174, 316, 188, Double Braid	Brass	24.28 .956	5.94 .234	59993-1	—	—	228618-3	228596-3
	Diecast	24.28 .956	5.94 .234	59993-1	415367-2	415366-2	415369-2	415368-2
142, 142A, 142B, 400, Belden 9246	Brass	27.43 1.08	6.48 .255	58212-1	221980-2	221981-2	228618-4	228596-4

\*For hand tool 69710-1 or pneumatic tool 69365-8.  
**Note:** Non-Impedance Matched and 50 Ohm are not interchangeable.