

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 [0.566 N]
Contact Retention — 20 lb [90 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

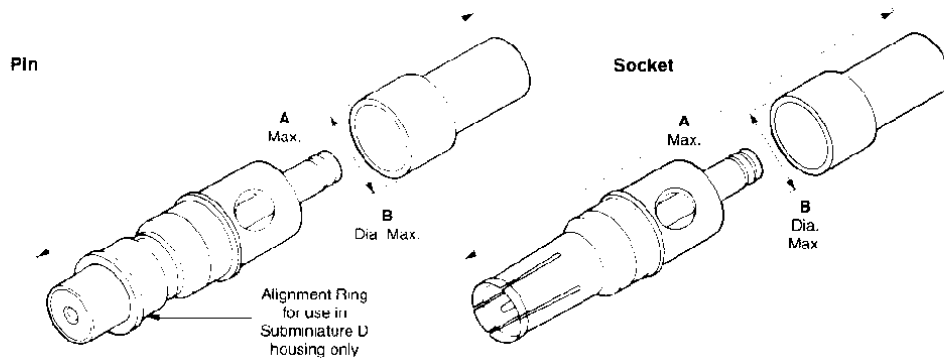
Extraction Tool Numbers
Subminiature D Housings — 58095-1 (AMPLIMITE)
AMP-HDI Housings — 58095-2

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.