

Wire-to-Board Applications, CHAMP .050 Series II (Continued)

Plug Cable Connectors

Materials and Finish

Housing, Covers—Glass-filled PBT, rated 94V-0, black

Contacts—Phosphor bronze, selectively plated with minimum of .000030 [0.00076] gold in mating area and tin-lead in termination area

Performance Specifications—
Page 43

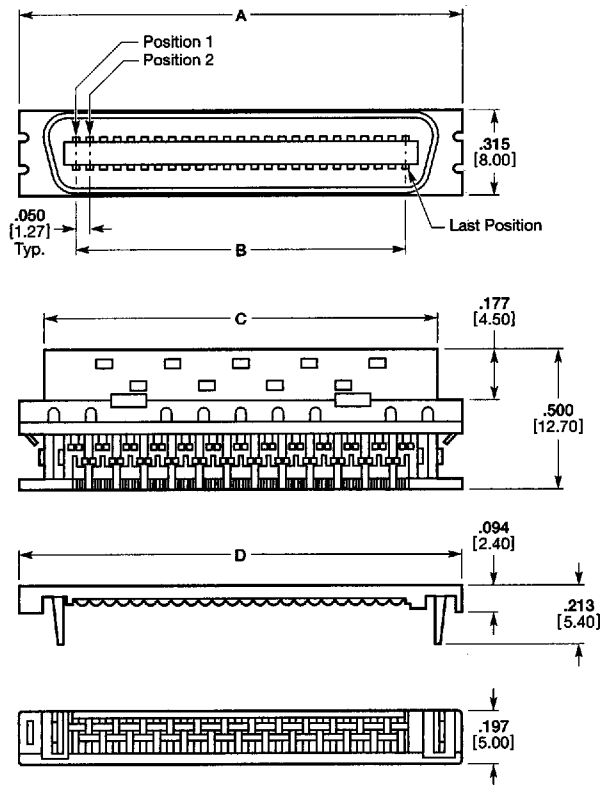
Wire Accommodation

28 AWG [0.08mm²] 7 Strand with .020-.028 [0.51-0.71]* insulation diameter. 28 AWG [0.08mm²] SCSI with .028-.035 [0.71-0.89] insulation diameter, and 30 AWG [0.05mm²] 7 strand with .020 [0.508]-.028 [0.71] insulation diameter. Most UL Type 2789 wires meet these dimensional requirements

*Depending on type of insulation and applicator tooling.

Mating Receptacle Connectors—
Right Angle—Page 37, 40, 41 and 42
Vertical—Page 43

Panel Mount—Page 37



Technical Documents

Product Specification
108-5288

Application Specification
114-5166—integral clamp
114-5124—wire terminations

Recommended Cable

Pos.	Dimensions				Part Numbers		
	A	B	C	D	28 AWG [0.08mm ²]	30 AWG [0.05mm ²]	SCSI 28 AWG [0.08mm ²]
14	.724 18.40	.300 7.62	.539 13.70	.720 18.30	2-175677-1	2-175750-1	†
20	.874 22.20	.450 11.43	.693 17.60	.870 22.10	2-175677-2	2-175750-2	†
26	1.024 26.00	.600 15.24	.843 21.40	1.020 25.90	2-175677-4	2-175750-4	†
36	1.276 32.40	.850 21.59	1.091 27.70	1.272 32.30	2-175677-5	2-175750-5	†
50	1.626 41.30	1.200 30.48	1.441 36.60	1.622 41.20	2-175677-7	2-175750-7	2-175751-7
68	2.075 52.70	1.650 41.91	1.890 48.00	2.071 52.60	2-175677-8	2-175750-8	†
80	2.874 73.00	2.450 62.23	2.693 68.40	2.870 72.90	3-175677-0	3-175750-0	†
100	2.374 60.30	1.950 49.53	2.193 55.70	2.370 60.20	2-175677-9	2-175750-9	†

†Other connector sizes can be made available, contact AMP Incorporated.

Series II

Wire-to-Board Applications, CHAMP .050 Series II and III

Performance Specifications**Series II Connector**

Operating Temperature Range: -55°C to +85°C for Standard
-55°C to +105°C for High Temp

Current Rating: 1 Ampere Maximum—28 AWG [0.08 mm²], 0.5 A max. 30 AWG
[0.05 mm²], 0.5 A max.

Voltage Rating: 250 VAC Maximum

Termination Resistance: 35 Milliohms Maximum Initial

Insulation Resistance: 500 Megohms Minimum Initial

Mating Force: 75 Grams Maximum Per Contact

Rated Cycle Life: 500 Cycles

Series III Connector

Operating Temperature Range: -55°C to +105°C

Current Rating: 1 Ampere Maximum

Voltage Rating: 250 VAC Maximum

Termination Resistance: 65 Milliohms Maximum Initial

Insulation Resistance: 100 Megohms, Minimum

Mating Force: 200 Grams Maximum Per Contact Pair

Rated Cycle Life: 500 Cycles