

Specifications



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STANDARD MATERIALS AND FINISHES		
	MATERIALS	FINISHES
Shell	Aluminum alloy	Conductive olive drab chromate over zinc (standard) - see page 8 for options.
Insulator	CR - Polychloroprene Rubber	
Contacts	Copper alloy	Silver

ELECTRICAL DATA	
Insulation resistance	5,000MΩ Min. (at 25°C)
Operating temperature range	-55°C to +125°C
Durability	500 cycles

CONTACT ARRANGEMENTS SERVICE RATING							
DIELECTRIC WITHSTANDING VOLTAGE				CONTACT ENGAGING AND SEPARATING FORCE			
SERVICE RATING	TEST VOLTAGE AC (RMS)	OPERATING VOLTAGE		CONTACT SIZE	FORCE IN POUNDS		
		AC (RMS)	DC		MAXIMUM	AVERAGE	MINIMUM
Inst.	1,000	200	250	16	3	2.06	0.13
A	2,000	500	700	12	5	3.5	0.19
D	2,800	900	1,250	8	10	-	0.31
E	3,500	1,250	1,750	4	15	-	0.63
B	4,500	1,750	2,450	0	20	-	0.94
C	7,000	3,000	4,200				



C3057 backshell with C3420 bushing



C3108 angled plug

ALTITUDE VOLTAGE DERATING CHART						
SERVICE RATING	NOMINAL DISTANCE		STANDARD SEA LEVEL CONDITIONS		PRESSURE ALTITUDE 70,000 FEET	
	AIRSPACE	CREEPAGE	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)
Inst.	1/32	1/16	1,400	1,000	325	260
A	1/16	1/8	2,800	2,000	450	360
D	1/8	3/16	3,600	2,800	500	400
E	3/16	1/4	4,500	3,500	550	440
B	1/4	5/16	5,700	4,500	600	480
C	5/16	1	8,500	7,000	700	560

Current and Wire Gauge								
CONTACT SIZE	PIN CONTACT DIAMETER (MM)	SOLDER POT DIAMETER (MM)	CURRENT (A) RATING (MATED WITH INSULATORS)	CONTACT RESISTANCE		WIRE RANGE ACCOMMODATIONS		
				TEST CURRENT (A)	POTENTIAL DROP MAXIMUM (MV)	WIRE SIZE (AWG)	WIRE NORMAL SQUARE SIZE (MM²)	DIELECTRIC MATERIAL OUTER DIAMETER
16	1.6	2	13A	20A	21	16	≤ 1.3	3.3
12	2.4	3	23A	35A	20	12	≤ 3.5	4.3
8	3.6	5.2	46A	60A	12	8	≤ 8.0	6.4
4	5.7	8.5	80A	110A	10	4	≤ 22.0	9.4
0	9.1	12	150A	200A	10	0	≤ 50.0	14.0