

# REFERENCE & PERFORMANCE DATA

## CONNECTOR INTERFACE DIMENSIONS

CONNECTOR/BACKSHELL INTERFACE THREADS STANDARD CONNECTOR SERIES					
SHELL SIZE	A	C	D	E	G
8,8S,9,10S	.5000-20	.4375-28	M12X1.0-6H	.5000-28	.4375-28
10,10SL,11	.6250-24	.5625-24	M15X1.0-6H	.6250-24	.6250-24
12,12S,13	.7500-20	.6875-24	M18X1.0-6H	.6250-24	.6875-20
14,14S,15	.8750-20	.8125-20	M22X1.0-6H	.7500-20	.7500-20
16,16S,17	1.0000-20	.9375-20	M25X1.0-6H	.8750-20	.8750-20
18,19	1.0625-18	1.0625-18	M28X1.0-6H	1.0000-20	1.0000-20
20,21	1.1875-18	1.1875-18	M31X1.0-6H	1.1875-18	1.1250-18
22,23	1.3125-18	1.3125-18	M34X1.0-6H	1.1875-18	1.2500-18
24,25	1.4375-18	1.4375-18	M37X1.0-6H	1.4375-18	1.3750-18
28	1.7500-18	X	X	1.4375-18	1.6250-18
32	2.0000-18	X	X	1.7500-18	1.8750-16
36	2.2500-18	X	X	2.0000-18	2.0625-16

CONNECTOR/BACKSHELL INTERFACE THREADS MICRO M&M CONNECTOR™ SERIES		
SHELL SIZE	J	M
5	.2500-32	X
6	.3125-32	X
7	.4375-28	X
8	.5000-28	.3750-32
9	.5625-24	.4375-28
10	.6250-24	.5000-28
11	.6875-24	.5625-24
12	.6875-24	.6250-24
13	.6875-24	.6875-24
15	X	.7500-20
16	.9375-20	X
17	.9375-20	X
18	X	.9375-20
19	1.0625-18	.9375-20
21	1.1875-18	1.0625-18
23	X	1.1875-18

CONNECTOR SERIES KEY	
CODE	DESCRIPTION
A	MIL-C-5015 (MIL-DTL-83723)
C	MIL-DTL-38999 SERIES 1 & 2 (MIL-DTL-26482 SERIES 1)
D	MIL-DTL-38999 SERIES 3 OR 4
E	MS3100 STYLE
G	MIL-C-28840
J	TOPFLITE MICRO M&M CONNECTOR™ SERIES
M	TOPFLITE TRIPLE START MATING MICRO M&M CONNECTOR™
Z	CUSTOMER SPECIFIED (PLEASE INQUIRE)

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## CABLE ENTRY RANGE

IN (MM)

CABLE ENTRY RANGE CHART			
CABLE ENTRY	C DIAMETER MAX (CABLE ENTRY)	D DIAMETER MAX	E DIAMETER MAX
01	.125 (3.2)	.250 (6.4)	.312 (7.9)
31	.188 (4.8)	.312 (7.9)	.374 (9.5)
02	.250 (6.4)	.375 (9.5)	.437 (11.1)
32	.312 (7.9)	.438 (11.1)	.500 (12.7)
03	.375 (9.5)	.500 (12.7)	.562 (14.3)
33	.438 (11.1)	.562 (14.3)	.624 (15.8)
04	.500 (12.7)	.625 (15.9)	.687 (17.4)
34	.562 (14.3)	.688 (17.5)	.750 (19.1)
05	.625 (15.9)	.750 (19.1)	.812 (20.6)
35	.688 (17.5)	.812 (20.6)	.874 (22.2)
06	.750 (19.1)	.875 (22.2)	.937 (23.8)
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
39	1.15 (29.2)	1.25 (31.6)	1.312 (33.3)
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
12	1.500 (38.1)	1.625 (41.3)	1.687 (42.8)
13	1.625 (41.3)	1.75 (44.5)	1.812 (46.0)
14	1.75 (44.5)	1.875 (47.6)	1.938 (49.2)
15	1.875 (47.6)	2 (50.8)	2.0625 (52.4)
16	1.312 (33.3)	1.438 (36.5)	1.5 (38.1)
17	1.438 (36.5)	1.5625 (39.7)	1.625 (41.3)

**Notes**

Additional Cable Entry sizes can be accommodated. Speak to your TopFlite Sales Representative for more info.

# REFERENCE & PERFORMANCE DATA

## MATERIAL AND FINISH SPECIFICATIONS

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ITEM	FINISH CODE	BASE MATERIAL	SPECIFICATION	TEMP RANGE	SALT SPRAY RATING (HR)
ALUMINUM	X	ALUMINUM	QQ-A-225/8	-65 to +200°C	0
STAINLESS STEEL, PASSIVATED	K	STAINLESS STEEL	QQ-S-763 (300 SERIES)	-65 to +200°C	1000
COMPOSITE	C	ULTEM	ULTEM 2300, 30% GF	-65 to +175°C	1000
BRASS	B	360 BRASS	ASTM B16	-65 to +200°C	0
CADMIUM, OLIVE DRAB	W	ALUMINUM	SAE-AMS-QQ-P-416 TYPE II, CLASS 3	-65 to +175°C	96
CADMIUM, OLIVE DRAB	D	ALUMINUM	SAE-AMS-QQ-P-416 TYPE II, CLASS 3 OVER ELECTROLESS NICKEL	-65 to +175°C	500
CADMIUM, OLIVE DRAB	Q	ALUMINUM	SAE-AMS-QQ-P-416 TYPE II, CLASS 2 OVER ELECTROLESS NICKEL	-65 to +175°C	1000
ELECTROLESS NICKEL	F	ALUMINUM	AMS-C-26074	-65 to +200°C	48
HARD ANODIZE	G	ALUMINUM	PER MIL-A-8625	-65 to +175°C	300
CLEAR ANODIZE	E	ALUMINUM	PER MIL-A-8625	-65 to +175°C	300
HARD BLACK ANODIZE	A	ALUMINUM	PER MIL-A-8625	-65 to +175°C	300
COMPOSITE W/ ELECTROLESS NICKEL PLATE	M	ULTEM	AMS-C-26074	-65 to +175°C	2000
COMPOSITE W/ CADMIUM PLATE	N	ULTEM	SAE-AMS-QQ-P-416 TYPE II, CLASS 3 OVER ELECTROLESS NICKEL	-65 to +175°C	2000
BRASS W/ ELECTROLESS NICKEL PLATE	R	360 BRASS	AMS-C-26074	-65 to +200°C	48
NICKEL PTFE	T	ALUMINUM	PROPRIETARY	-65 to +175°C	1000
BLACK ZINC NICKEL	Z	ALUMINUM	ASTM B841, GRADE 5, OVER ELECTROLESS NICKEL	-65 to +175°C	500
ZINC COBALT, OLIVE DRAB	H	ALUMINUM	ASTM B840, GRADE 6, TYPE D OVER ELECTROLESS NICKEL	-65 to +175°C	300
OLIVE DRAB ZINC NICKEL	L	ALUMINUM	ASTM B841, GRADE 5, OVER ELECTROLESS NICKEL	-65 TO +175C	1000
ZINC COBALT, BLACK	P	ALUMINUM	ASTM B840, GRADE 6, TYPE D OVER ELECTROLESS NICKEL	-65 TO +175C	300
CADMIUM, YELLOW	Y	ALUMINUM	AMS-QQ-P-416	-65 TO +175C	96
CHEMICAL CONVERSION COATING	J	ALUMINUM	MIL-DTL-5541 TYPE 1, CLASS 1A	-65 TO +175C	96
GOLD, 50 MICRO INCHES	S	MULTIPLE	MIL-DTL-25204	-65 TO +175C	500
GOLD, 30 MICRO INCHES	U	MULTIPLE	MIL-DTL-25204	-65 TO +175C	300
NICKEL PLATED STAINLESS STEEL	KE	STAINLESS STEEL	AMS-C-26074	-65 TO +175C	1096
SULFURIC ACID ANODIZE	SA	ALUMINUM	MIL-A-8625, TYPE II	-65 TO +175C	96
TIN PLATING	V	MULTIPLE	ASTM B545	-65 TO +175C	48

LIST OF MATERIALS FOR GENERAL MACHINING OR CUSTOM CONNECTORS								
ALUMINUM	STAINLESS STEEL	CARBON STEEL	TITANIUM	BRASS	BRONZE	ULTEM	DELTRIN	NYLON

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## RECOMMENDED TORQUE VALUES

INSTALLATION TORQUE VALUES (Inch-Lbs) FOR CIRCULAR ELECTRICAL CONNECTOR ACCESSORIES		
ACCESSORY THREAD TORQUE: ±5 INCH POUNDS		
SHELL SIZE	CONNECTOR INTERFACE (SECTION A)	
	A, D	ALL OTHERS
8, 9, A	56	35
10, 10SL, 11, B	76	35
12, 12S, 13, C	108	40
14, 14S, 15, D	116	40
16, 16S, 17, E	116	40
18, 19, 27, F	116	40
20, 21, 37, G	136	80
22, 23, H	136	80
24, 25, 61, J	136	80
28, 29	148	120
32, 33	148	120
36	148	120
40	164	160
44	164	160
48	164	160

### Notes

For Interfaces M & J, Sizes 5-7 24 in-lbs, Sizes 8-13 35 in-lbs, & Sizes 15-23 80 in-lbs