



CIRCULAR & RECTANGULAR ELECTRICAL CONNECTORS

TopFlite is a cost reduction manufacturer of both circular and rectangular connectors, from our Micro Miniature (M&M Connector™) series to large power connectors, and everything in between such as filtered connectors, hermetic connectors, printed circuit board style, rugged USB, harsh environment and custom configuration electrical connectors supporting multiple Military, Aerospace and Commercial specifications/interfaces. TopFlite offers more than 50 years of combined connector experience within our staff to ensure your connector project is designed to the highest manufacturing standards. As a program specific connector manufacturer, TopFlite focuses on each customer's program needs for performance, quality and the lowest possible price. As a vertically integrated manufacturing company, TopFlite internally designs, tests, and manufactures all components within its own facilities, save some special processes. This allows us to provide custom solutions at or below standard product prices. At TopFlite, "Custom Is Our Standard!"

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*formerly series MR/MP

FILTER CONNECTORS



TopFlite Engineers will be happy to work with you and your team or your contract manufacturer to solve your EMI and transient protection problems. TopFlite produces filter connectors not only for custom connector builds, but also for popular industry series such as MIL-DTL-38999, MIL-C-26482, MIL-C-5015, MIL-C-83723, MIL-C-26500, Micro Connectors, and D-Sub Rectangular applications.

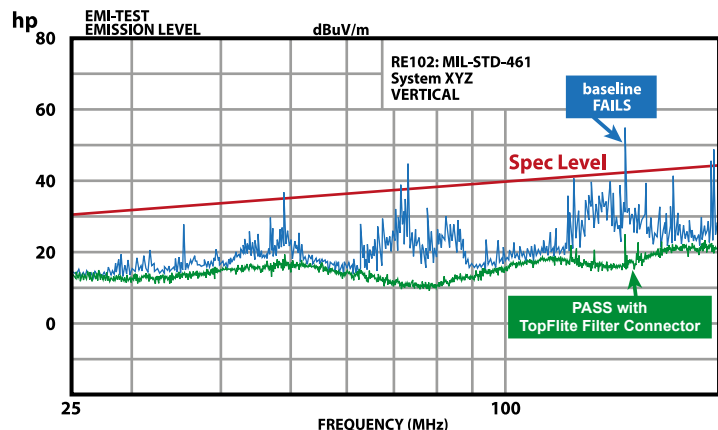
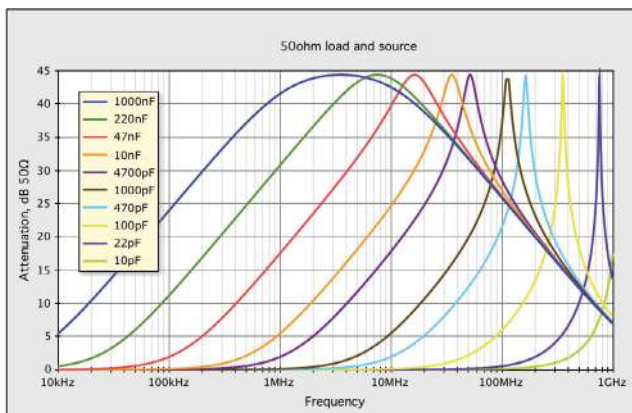
Our Filter Connectors can withstand extreme mechanical and environmental abuse; environmental and mechanical tests conducted by independent laboratories show that even severe environments do not affect the integrity of this rugged product line. Components and wiring are fully embedded in protective silicone material and all internal wiring is gold plated per MIL-G-25204. These advantages allow our connectors to withstand severe temperature ranges and exposure to many deteriorating influences such as ozone, chemicals, aging, and Ultra Violet emissions.

TYPICAL CAPACITOR RANGES

Connector Insert Density	WVDC (Working Voltage DC)	Max Capacitance Values(min 1pf)
Very High	50VDC	1μF
	1000VDC	8.2nf
Medium to Low	50VDC	4.7μF
	2000VDC	4.7nf

Other values may be available

TYPICAL CAPACITOR ATTENUATION CURVE



FILTER CONNECTORS

TYPICAL PERFORMANCE DATA

Shock

MIL-STD-1344A Method 2004.1, Test Condition C (except 150g instead of 100g): 1/2 sine, 6 ms, 6 shocks/axis, total 3 axes

Vibration

MIL-STD-1344A Method 2005.1, Test Condition IV: 10-2000Hz, 20g, 4 hours/axis, total 3 axes and MIL-STD-810E paragraph 514.4: 3.75Hz @ 0.07g to 33.75Hz @ 2.5g to 500Hz @ 0.002g²/Hz, 4 hours/axis, total 3 axes

Salt Spray

Method 1001.1: 48 hr exposure at 95F

Thermal Cycling

RTCA/DO160C: -55C to +125C, 20 cycles

Humidity Exposure

RTCA/DO160C Category A: 95%RH @ 50C for 24hr, @ 30C for 24hr

Temperature-Altitude

MIL-STD-5400 4.6.2.3 Class 1A: -55C to 125C, 30,000 ft

Durability

MIL-STD-1344A Method 2016: 250, 375 & 500 mate/demate cycles

Fluid Immersion

MIL-STD-1344A Method 1016, Fluids a, c, d & e, with connectors mated: 5 minute immersion @ 85C in each of Hydraulic Fluid, 2 Lubricating Oils & JP-5

Removal Re-Use Assessment

128pin EESeal® completely removed from connector and re-inserted 12 times

Porosity

MIL-STD-1344A Method 1017: Contacts exposed to 70% HNO₃ (concentrated reagent grade nitric acid) for 75 minutes at 23C, 10 minutes in air @ 125C, no corrosion observed

Fungus

MIL-STD-810F Method 508.5 modified to 84 days

Out-gassing

ASTM E-595-07, TML <1%; CVCM <0.1%, Post bake required, 24 hours @300F

MR1 & MP1 MICRO M&M CONNECTORS™

STANDARD UN THREAD MATING



TopFlite's cornerstone to its M&M Connector™ series is the MR1 Receptacle & MP1 Plug Micro Connector series. This series utilizes standard UN style thread mating, features the smallest package TopFlite offers for its connector lines, and can be made in variety of styles and finishes. Like all of TopFlite's M&M Connector™ series, these are intermatable with competitor industry equivalent connectors. Plug connectors can be purchased with standard or hex style coupling nuts and with standard or anti-decoupling mating styles. Further, the customer may choose from a multitude of contact styles and rear-end termination designs, including TopFlite's Integrated Termination Tail (ITT) to negate the need for backshell hardware. Crimp-style contacts can be installed and removed with standard industry tooling. Ask your TopFlite sales representative about adding TopFlite's stainless steel termination bands (which use standard industry tooling for installation) and/or backshell hardware to couple with your connector purchase.

PART NUMBER BUILDER											
EXAMPLE PART NUMBER	TFC-	MR1	24	IT	F	06-07	P	N	-020500	-W	-ZXXX
STANDARD PREFIX											
CONNECTOR TYPE	MR1 - JAM NUT RECEPTACLE MP1 - PLUG										
STYLE	06 - STANDARD PLUG 08 - HEX NUT PLUG 16 - ANTI-DECOUPLING PLUG 18 - ANTI-DECOUPLING HEX PLUG 24 - JAM NUT RECEPTACLE 22 - INLINE RECEPTACLE 20 - BOX MOUNT RECEPTACLE										
BACKEND STYLE	TH - THREADED BACK IT - INTEGRATED TERMINATION TAIL CS - CASTLE BACK										
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)										
SIZE & INSERT ARRANGEMENT	06-07 09-10 10-26 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)										
CONTACT STYLE	P - CRIMP PIN S - CRIMP SOCKET PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET XP - NO PIN CONTACTS XS - NO SOCKET CONTACTS										
POLARIZATION	N = NORMAL X Y Z (SEE TABLE II & III)										
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)										
WIRE HOLES	W - WITH WIRE HOLES (OMIT FOR NONE)										
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)										

TABLE II: PLUG KEYWAY POLARIZATIONS

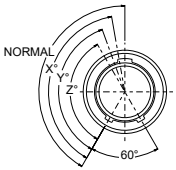
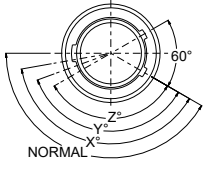
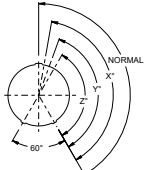
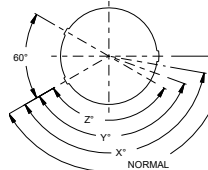
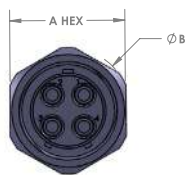
SHELL SIZE 5 AND 6	SHELL SIZE 7 THRU 12
	
Key Position	Key Rotation
N Normal	150°
X	140°
Y	130°
Z	120°

TABLE III: RECEPTACLE KEY POLARIZATIONS

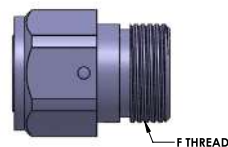
SHELL SIZE 5 AND 6	SHELL SIZE 7 THRU 12
	
Key Position	Key Rotation
N Normal	150°
X	140°
Y	130°
Z	120°



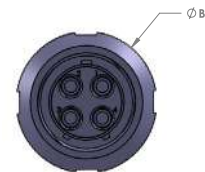
ITT STYLE



HEX COUPLING



THREADED REAR

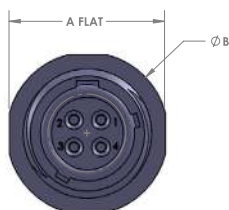


STANDARD COUPLING

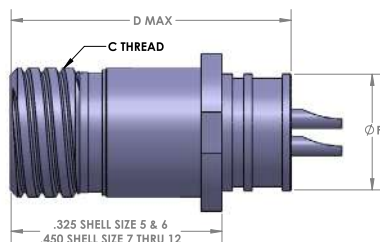
PLUG CONNECTOR DIMENSIONS (IN)							
SHELL SIZE	STANDARD COUPLING		ANTI-DECOUPLING		Ø D	E THREADS COUPLING NUT	F THREADS ACCESSORY
	A HEX	Ø B	A HEX	B Ø			
5	.430 (10.92)	.47 (11.94)	.495 (12.57)	.54 (13.72)	.230 (5.84)	.3125-28 UN-2B	.250-32 UNEF-2A
6	.500 (12.70)	.55 (13.97)	.563 (14.30)	.62 (15.75)	.286 (7.26)	.3750-28 UN-2B	.3125-32 UNEF-2A
7	.625 (15.88)	.68 (17.27)	.720 (18.29)	.80 (20.32)	.390 (9.91)	.4375-28 UNEF-2B	.4375-28 UNEF-2A
8	.680 (17.27)	.75 (19.05)	.743 (18.87)	.83 (21.08)	.445 (11.30)	.5000-32 UN-2B	.5000-28 UNEF-2A
9	.750 (19.05)	.83 (21.08)	.813 (20.65)	.89 (22.61)	.500 (12.70)	.5625-32 UN-2B	.5625-24 UNEF-2A
10	.812 (20.62)	.90 (22.86)	.875 (22.23)	.96 (24.38)	.565 (14.35)	.6250-32 UN-2B	.6250-24 UNEF-2A
12	.875 (22.23)	.97 (24.64)	.938 (23.83)	1.03 (26.16)	.650 (16.51)	.7500-28 UN-2B	.6875-24 UNEF-2A

Notes

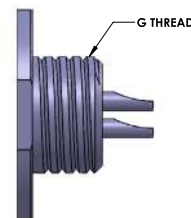
- Contacts are size 23 crimp type, and used in a rear release retention system (unless otherwise noted)
- Shell sizes 5 thru 6 and insert arrangement 8-13: master key is located at top dead center (TDC) for normal (N) position.
- Shell size 7 thru 12: master key is rotated 90° from TDC for normal position

INLINE CABLE RECEPTACLE - SHELL STYLE 22

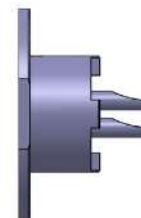
FRONT VIEW



ITT REAR



THREADED REAR



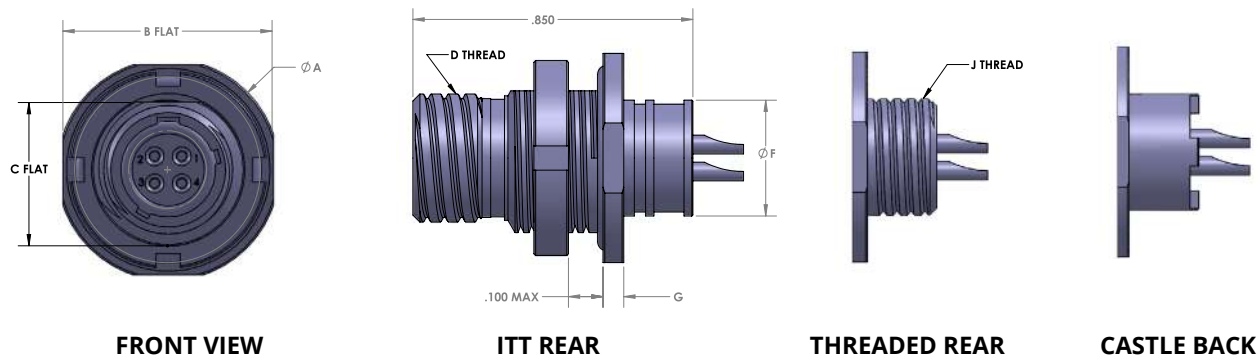
CASTLE BACK

DIMENSIONS (IN)						
SHELL SIZE	A FLATS	Ø B	C THREADS (MATING)	D MAX.	Ø F	G THREADS (ACCESSORY)
5	.312 (7.92)	.355 (9.02)	.3125-28 UN-2A	.750 (19.05)	.230 (5.84)	.250-32 UNEF-2A
6	.375 (9.52)	.400 (10.16)	.3750-28 UN-2A	.750 (19.05)	.286 (7.26)	.3125-32 UNEF-2A
7	.445 (11.30)	.490 (12.45)	.4375-28 UNEF-2A	.825 (20.96)	.390 (9.91)	.4375-28 UNEF-2A
8	.550 (13.97)	.600 (15.24)	.5000-32 UN-2A	.825 (20.96)	.445 (11.30)	.5000-28 UNEF-2A
9	.613 (15.57)	.663 (16.84)	.5625-32 UN-2A	.825 (20.96)	.500 (12.70)	.5625-24 UNEF-2A
10	.675 (17.15)	.725 (18.42)	.6250-32 UN-2A	.825 (20.96)	.565 (14.35)	.6250-24 UNEF-2A
12	.800 (20.32)	.850 (21.59)	.7500-28 UN-2A	.825 (20.96)	.650 (16.51)	.6875-24 UNEF-2A

Notes

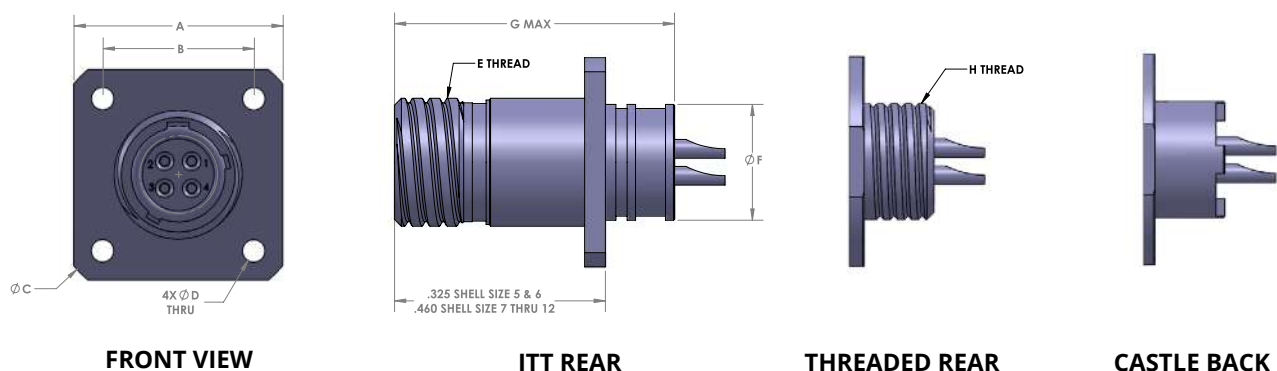
- Shell sizes 5 thru 6 and insert arrangement 8-13: master key is located at top dead center (TDC) for normal (N) position.
- Shell size 7 thru 12: master key is rotated 90° from TDC for normal position

JAM NUT RECEPTACLE - SHELL STYLE 24



DIMENSIONS (IN)							
SHELL SIZE	Ø A	B FLAT	C FLAT	D THREADS (MATING)	Ø F	G	J THREADS (ACCESSORY)
5	.541 (13.74)	.500 (12.70)	.285 (7.24)	.3125-28 UN-2A	.230 (5.84)	.051 (1.30)	.250-32 UNEF-2A
6	.610 (15.49)	.562 (14.27)	.352 (8.94)	.3750-28 UN-2A	.286 (7.26)	.051 (1.30)	.3125-32 UNEF-2A
7	.670 (17.02)	.635 (16.13)	.418 (10.62)	.4375-28 UNEF-2A	.390 (9.91)	.093 (2.36)	.4375-28 UNEF-2A
8	.775 (19.68)	.735 (18.67)	.473 (12.01)	.5000-32 UN-2A	.445 (11.30)	.093 (2.36)	.5000-28 UNEF-2A
9	.875 (22.23)	.806 (20.47)	.530 (13.46)	.5625-32 UN-2A	.500 (12.70)	.093 (2.36)	.5625-24 UNEF-2A
10	.980 (24.89)	.940 (23.88)	.604 (15.34)	.6250-32 UN-2A	.565 (14.35)	.093 (2.36)	.6250-24 UNEF-2A
12	1.062 (26.97)	.986 (25.04)	.712 (18.08)	.7500-28 UN-2A	.650 (16.51)	.093 (2.36)	.6875-24 UNEF-2A

BOX MOUNT RECEPTACLE - SHELL STYLE 20



DIMENSIONS (IN)								
SHELL SIZE	A SQ	B	Ø C	Ø D ± .005	E THREADS (MATING)	Ø F	G MAX.	H THREADS (ACCESSORY)
5	.527 (13.39)	.363 (9.22)	.680 (17.27)	.094 (2.39)	.3125-28 UN-2A	.230 (5.84)	.730 (18.54)	.250-32 UNEF-2A
6	.588 (14.94)	.423 (10.74)	.750 (19.05)	.094 (2.39)	.3750-28 UN-2A	.286 (7.26)	.730 (18.54)	.3125-32 UNEF-2A
7	.650 (16.51)	.483 (12.27)	.830 (21.08)	.128 (3.25)	.4375-28 UNEF-2A	.390 (9.91)	.805 (20.45)	.4375-28 UNEF-2A
8	.710 (18.03)	.542 (13.77)	.938 (23.83)	.128 (3.25)	.5000-32 UN-2A	.445 (11.30)	.805 (20.45)	.5000-28 UNEF-2A
9	.938 (23.83)	.719 (18.26)	1.250 (31.75)	.128 (3.25)	.5625-32 UN-2A	.500 (12.70)	.805 (20.45)	.5625-24 UNEF-2A
10	.938 (23.83)	.719 (18.26)	1.250 (31.75)	.128 (3.25)	.6250-32 UN-2A	.565 (14.35)	.805 (20.45)	.6250-24 UNEF-2A
12	1.031 (26.19)	.812 (20.62)	1.375 (34.92)	.128 (3.25)	.7500-28 UN-2A	.650 (16.51)	.805 (20.45)	.6875-24 UNEF-2A

MR2 & MP2 MICRO M&M CONNECTORS™

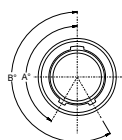
DOUBLE START THREAD MATING



TopFlite's most popular option of its M&M Connector™ line is the MR2 Receptacle & MP2 Plug Micro Connector series. This series utilizes double start modified 60 degree style thread mating, allowing for quick mating and unmating, an preventing cross-threading. It can be made in variety of styles and finishes. Like all of TopFlite's M&M Connector™ series, these are intermatable with competitor industry equivalent connectors. Plug connectors can be purchased with standard or hex style coupling nuts and with standard or anti-decoupling mating styles. Further, the customer may choose from a multitude of contact styles and rear-end termination designs, including TopFlite's Integrated Termination Tail (ITT) to negate the need for backshell hardware. Crimp-style contacts can be installed and removed with standard industry tooling. Ask your TopFlite sales representative about adding TopFlite's stainless steel termination bands (which use standard industry tooling for installation) and/or backshell hardware to couple with your connector purchase.

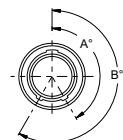
PART NUMBER BUILDER											
EXAMPLE PART NUMBER	TFC-	MR2	16	IT	F	06-07	P	A	-020500	-W	-ZXXX
STANDARD PREFIX											
CONNECTOR TYPE	MR2 - JAM NUT RECEPTACLE MP2 - PLUG										
STYLE	06 - STANDARD PLUG 08 - HEX NUT PLUG 16 - ANTI-DECOUPLING PLUG 18 - ANTI-DECOUPLING HEX PLUG 24 - JAM NUT RECEPTACLE 22 - INLINE RECEPTACLE 20 - BOX MOUNT RECEPTACLE										
BACKEND STYLE	TH - THREADED BACK IT - INTEGRATED TERMINATION TAIL CS - CASTLE BACK										
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)										
SIZE & INSERT ARRANGEMENT	06-07 09-10 10-26 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)										
CONTACT STYLE	P - CRIMP PIN S - CRIMP SOCKET PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET XP - NO PIN CONTACTS XS - NO SOCKET CONTACTS										
POLARIZATION	A B C ETC. (SEE TABLE II & III)										
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)										
WIRE HOLES	W - WITH WIRE HOLES (OMIT FOR NONE)										
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)										

TABLE II: PLUG KEY POLARIZATIONS

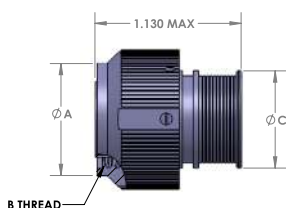


Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

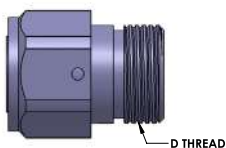
TABLE III: RECEPTACLE KEYWAY POLARIZATIONS



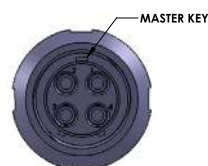
Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



ITR REAR



THREADED REAR



STANDARD COUPLING

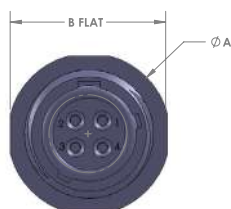


HEX COUPLING

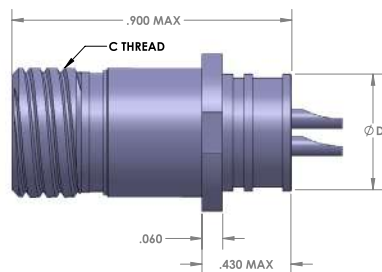
PLUG CONNECTOR DIMENSIONS (IN)					
SHELL SIZE	Ø A 06/08	Ø A 16/18	B THREAD	Ø C	D THREAD
5	0.54 (13.72)	0.65 (16.51)	.3125-.05P-.1L-DS-2B	.245 (6.22)	.2500-32 UNEF-2A
6	0.60 (15.24)	0.69 (17.53)	.3750-.05P-.1L-DS-2B	.290 (7.37)	.3125-32 UNEF-2A
7	0.69 (17.53)	0.79 (20.07)	.4375-.05P-.1L-DS-2B	.390 (9.91)	.4375-28 UNEF-2A
8	0.75 (19.05)	0.83 (21.08)	.5000-.05P-.1L-DS-2B	.445 (11.30)	.5000-28 UNEF-2A
9	0.81 (20.57)	0.92 (23.37)	.5625-.05P-.1L-DS-2B	.500 (12.70)	.5625-24 UNEF-2A
10	0.88 (22.35)	0.98 (24.89)	.6250-.05P-.1L-DS-2B	.560 (14.22)	.6250-24 UNEF-2A
11	0.92 (23.37)	1.02 (25.91)	.6875-.05P-.1L-DS-2B	.605 (15.37)	.6875-24 UNEF-2A
13	1.05 (26.67)	1.10 (27.94)	.8125-.1P-.2L-DS-2B	.650 (16.51)	.6875-24 UNEF-2A
16	1.24 (31.50)	1.34 (34.04)	1.0000-.1P-.2L-DS-2B	.805 (20.45)	.9375-20 UNEF-2A
17	1.30 (33.02)	1.45 (36.83)	1.0625-.1P-.2L-DS-2B	.850 (21.59)	.9375-20 UNEF-2A
19	1.40 (35.56)	1.50 (38.10)	1.1875-.1P-.2L-DS-2B	1.003 (25.48)	1.0625-18 UNEF-2A
21	1.55 (39.37)	1.65 (41.91)	1.3125-.1P-.2L-DS-2B	1.110 (28.19)	1.1875-18 UNEF-2A

*Formerly Series MR/MP

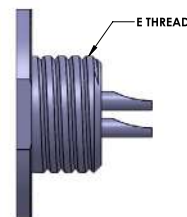
INLINE CABLE RECEPTACLE - SHELL STYLE 22



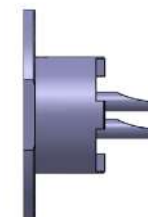
FRONT VIEW



ITR REAR



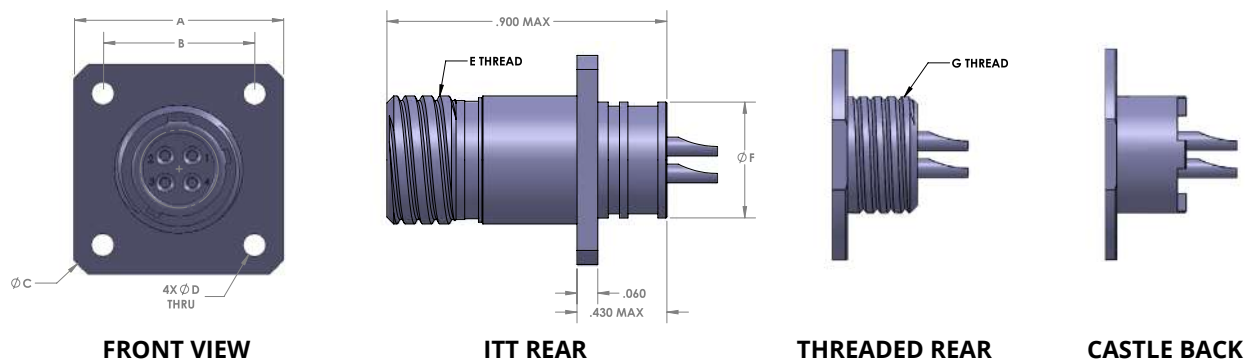
THREADED REAR



CASTLE BACK

DIMENSIONS (IN)					
SHELL SIZE	Ø A	B FLAT	C THREAD	Ø D	E THREAD UNEF-2A
5	.355	.325	.3125-.05P-.1L-DS-2A	.245	.2500-32
6	.415	.385	.3750-.05P-.1L-DS-2A	.290	.3125-32
7	.480	.445	.4375-.05P-.1L-DS-2A	.390	.4375-28
8	.540	.510	.5000-.05P-.1L-DS-2A	.445	.5000-28
9	.605	.575	.5625-.05P-.1L-DS-2A	.500	.5625-24
10	.665	.635	.6250-.05P-.1L-DS-2A	.560	.6250-24
11	.730	.700	.6875-.05P-.1L-DS-2A	.605	.6875-24
13	.855	.825	.8125-.1P-.2L-DS-2A	.650	.6875-24
16	1.040	1.010	1.0000-.1P-.2L-DS-2A	.805	.9375-20
17	1.110	1.070	1.0625-.1P-.2L-DS-2A	.850	.9375-20
19	1.243	1.191	1.1875-.1P-.2L-DS-2A	1.003	1.0625-18
21	1.375	1.312	1.3125-.1P-.2L-DS-2A	1.110	1.1875-18

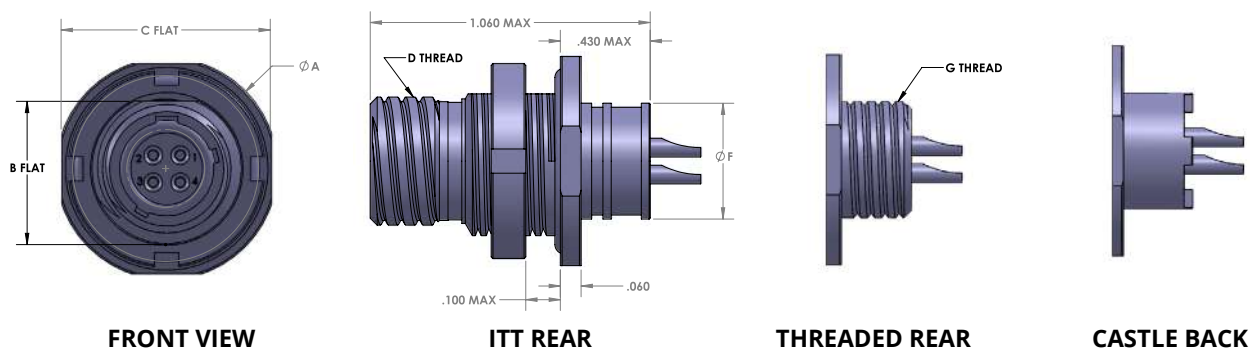
BOX MOUNT RECEPTACLE - SHELL STYLE 20



DIMENSIONS (IN)							
SHELL SIZE	A SQ	B BSC	Ø C	Ø D	E THREAD	Ø F	G THREAD UNEF-2A
5	.530	.363	.680	.096 .091	.3125-.05P-.1L-DS-2A	.245	.2500-32
6	.590	.423	.750		.3750-.05P-.1L-DS-2A	.290	.3125-32
7	.650	.483	.850		.4375-.05P-.1L-DS-2A	.390	.4375-28
8	.712	.545	.938		.5000-.05P-.1L-DS-2A	.445	.5000-28
9	.850	.607	1.125	.130 .126	.5625-.05P-.1L-DS-2A	.500	.5625-24
10	.890	.670	1.188		.6250-.05P-.1L-DS-2A	.560	.6250-24
11	.935	.715	1.250		.6875-.05P-.1L-DS-2A	.605	.6875-24
13	1.030	.812	1.375		.8125-.1P-.2L-DS-2A	.650	.6875-24
16	1.219	.981	1.625		1.0000-.1P-.2L-DS-2A	.805	.9375-20
17	1.280	1.060	1.700		1.0625-.1P-.2L-DS-2A	.850	.9375-20
19	1.432	1.191	1.900		1.1875-.1P-.2L-DS-2A	1.003	1.0625-18
21	1.565	1.322	2.100		1.3125-.1P-.2L-DS-2A	1.110	1.1875-18

*Max Panel Thickness .093"

JAM NUT RECEPTACLE - SHELL STYLE 24



DIMENSIONS (IN)							
SHELL SIZE	Ø A	B FLAT	C FLAT	D THREAD	E THREAD UN-2A	Ø F	G THREAD UN-2A
5	.575	.350	.545	.3125-.05P-.1L-2A	.375-28	.245	.250-32
6	.635	.410	.595	.375-.05P-.1L-2A	.4375-28	.290	.3125-32
7	.755	.536	.723	.4375-.05P-.1L-2A	.5625-32	.390	.4375-28
8	.755	.536	.723	.5000-.05P-.1L-2A	.5625-32	.445	.5000-28
9	.830	.596	.790	.5625-.05P-.1L-2A	.625-28	.500	.5625-24
10	.890	.658	.855	.6250-.05P-.1L-2A	.6875-28	.560	.6250-24
11	.960	.718	.925	.6875-.05P-.1L-2A	.7500-28	.605	.6875-24
13	1.078	.845	1.044	.8125-.1P-.2L-2A	.875-28	.650	.6875-24
16	1.264	1.022	1.230	1.000-.1P-.2L-2A	1.0625-20	.805	.9375-20
17	1.325	1.096	1.290	1.062-.1P-.2L-2A	1.125-28	.850	.9375-20
19	1.450	1.227	1.415	1.1875-.1P-.2L-2A	1.2500-28	1.003	1.0625-18
21	1.625	1.347	1.577	1.3125-.1P-.2L-2A	1.375-28	1.110	1.1875-18

MR3 & MP3 MICRO M&M CONNECTORS™

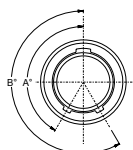
TRIPLE START THREAD MATING



TopFlite's M&M Connector™ line is proud to present the MR3 Receptacle & MP3 Plug Micro Connector series. This series utilizes triple start modified 60 degree style thread mating, allowing for even quicker mating and unmating, than its double start threaded series. This is truly a miniature D38999 style connector at its finest. It can be made in variety of styles and finishes. Like all of TopFlite's M&M Connector™ series, these are intermatable with competitor industry equivalent connectors. Plug connectors can be purchased with standard or hex style coupling nuts and with standard or anti-decoupling mating styles. Further, the customer may choose from a multitude of contact styles and rear-end termination designs, including TopFlite's Integrated Termination Tail (ITT) to negate the need for backshell hardware. Crimp-style contacts can be installed and removed with standard industry tooling. Ask your TopFlite sales representative about adding TopFlite's stainless steel termination bands (which use standard industry tooling for installation) and/or backshell hardware to couple with your connector purchase.

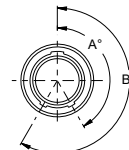
PART NUMBER BUILDER											
EXAMPLE PART NUMBER	TFC-	MR3	16	IT	F	06-07	P	A	-020500	-W	-ZXXX
STANDARD PREFIX											
CONNECTOR TYPE	MR3 - JAM NUT RECEPTACLE MP3 - PLUG										
STYLE	06 - STANDARD PLUG 08 - HEX NUT PLUG 16 - ANTI-DECOUPLING PLUG 18 - ANTI-DECOUPLING HEX PLUG 24 - JAM NUT RECEPTACLE 22 - INLINE RECEPTACLE 20 - BOX MOUNT RECEPTACLE										
BACKEND STYLE	TH - THREADED BACK IT - INTEGRATED TERMINATION TAIL CS - CASTLE BACK										
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)										
SIZE & INSERT ARRANGEMENT	06-07 09-10 10-26 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)										
CONTACT STYLE	P - CRIMP PIN S - CRIMP SOCKET PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET XP - NO PIN CONTACTS XS - NO SOCKET CONTACTS										
POLARIZATION	A B C ETC. (SEE TABLE II & III)										
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)										
WIRE HOLES	W - WITH WIRE HOLES (OMIT FOR NONE)										
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)										

TABLE II: PLUG KEY POLARIZATIONS

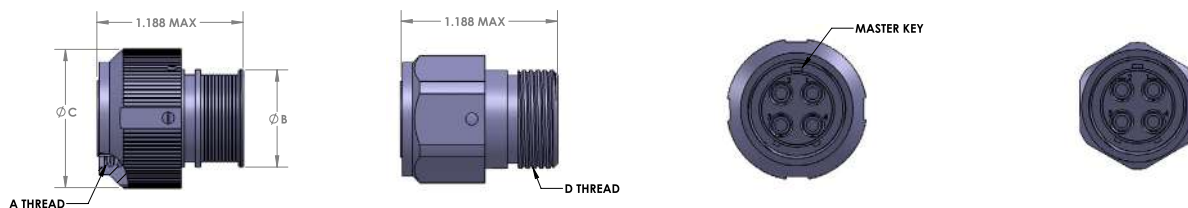


Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

TABLE III: RECEPTACLE KEYWAY POLARIZATIONS



Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



ITT REAR

THREADED REAR

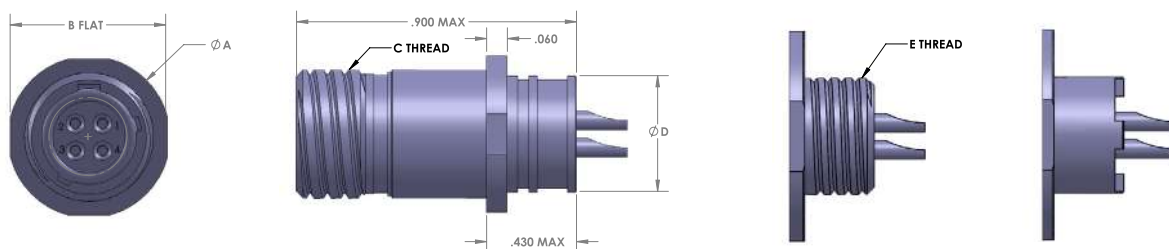
STANDARD COUPLING

HEX COUPLING

PLUG CONNECTOR DIMENSIONS (IN)

SHELL SIZE	A THREAD	Ø B	Ø C	D THREAD ACCESSORY
8	.5000-.1P-.3L-TS-2B	.317 (8.05)	.692 (17.58)	.3750-32 UNEF-2A
9	.5625-.1P-.3L-TS-2B	.397 (10.08)	.789 (20.04)	.4375-28 UNEF-2A
10	.6250-.1P-.3L-TS-2B	.473 (12.01)	.827 (21.01)	.5000-28 UNEF-2A
11	.6875-.1P-.3L-TS-2B	.519 (13.18)	.918 (23.32)	.5625-24 UNEF-2A
12	.7500-.1P-.3L-TS-2B	.585 (14.86)	.984 (24.99)	.6250-24 UNEF-2A
13	.8125-.1P-.3L-TS-2B	.646 (16.41)	1.047 (26.59)	.6875-24 UNEF-2A
15	.9375-.1P-.3L-TS-2B	.687 (17.45)	1.098 (27.89)	.7500-20 UNEF-2A
18	1.1250-.1P-.3L-TS-2B	.884 (22.45)	1.287 (32.69)	.9375-20 UNEF-2A
19	1.1875-.1P-.3L-TS-2B	.884 (22.45)	1.311 (33.30)	.9375-20 UNEF-2A
21	1.3125-.1P-.3L-TS-2B	1.003 (25.48)	1.448 (36.78)	1.0625-18 UNEF-2A
23	1.4375-.1P-.3L-TS-2B	1.135 (28.83)	1.562 (39.67)	1.1875-18 UNEF-2A

INLINE CABLE RECEPTACLE - SHELL STYLE 22



FRONT VIEW

ITT REAR

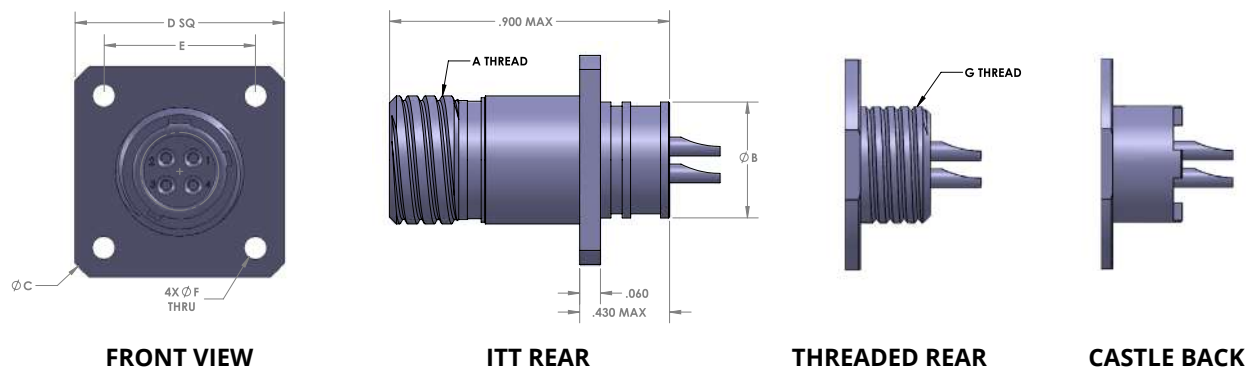
THREADED REAR

CASTLE BACK

DIMENSIONS (IN)

SHELL SIZE	Ø A	B FLAT	C THREAD	Ø D	E THREAD UNEF-2A
8	.540 (13.72)	.510 (12.95)	.5000-.1P-.3L-TS-2A	.316 (8.03)	.3750-32 UNEF-2A
9	.605 (15.37)	.575 (14.60)	.5625-.1P-.3L-TS-2A	.397 (10.08)	.4375-28 UNEF-2A
10	.668 (16.97)	.638 (16.21)	.6250-.1P-.3L-TS-2A	.472 (11.99)	.5000-28 UNEF-2A
11	.730 (18.54)	.700 (17.78)	.6875-.1P-.3L-TS-2A	.519 (13.18)	.5625-24 UNEF-2A
12	.793 (20.14)	.763 (19.38)	.7500-.1P-.3L-TS-2A	.585 (14.86)	.6250-24 UNEF-2A
13	.855 (21.72)	.825 (20.96)	.8125-.1P-.3L-TS-2A	.646 (16.41)	.6875-24 UNEF-2A
15	.980 (24.89)	.950 (24.13)	.9375-.1P-.3L-TS-2A	.687 (17.45)	.7500-20 UNEF-2A
18	1.165 (29.59)	1.135 (28.83)	1.1250-.1P-.3L-TS-2A	.884 (22.45)	.9375-20 UNEF-2A
19	1.235 (31.37)	1.205 (30.61)	1.1875-.1P-.3L-TS-2A	.884 (22.45)	.9375-20 UNEF-2A
21	1.360 (34.54)	1.330 (33.78)	1.3125-.1P-.3L-TS-2A	1.003 (25.48)	1.0625-18 UNEF-2A
23	1.485 (37.72)	1.455 (36.96)	1.4375-.1P-.3L-TS-2A	1.134 (28.80)	1.1875-18 UNEF-2A

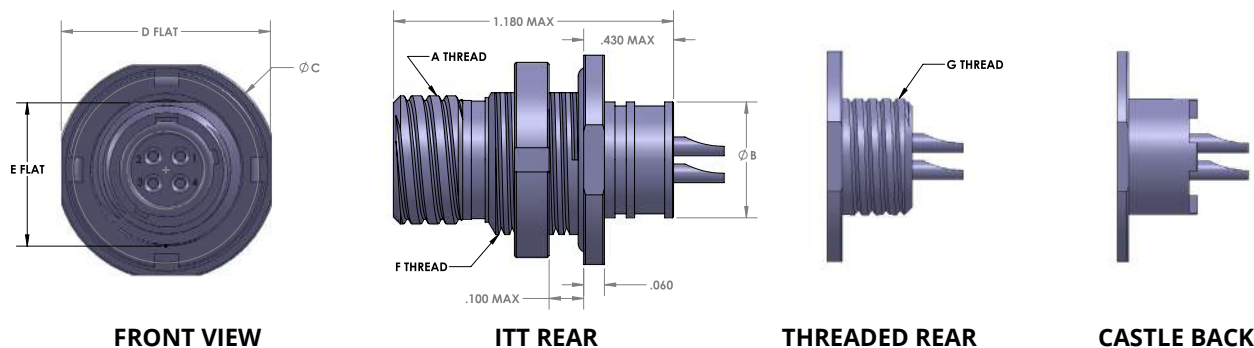
BOX MOUNT RECEPTACLE - SHELL STYLE 20



DIMENSIONS (IN)							
SHELL SIZE	A THREAD	Ø B	Ø C	D SQ TYP	E BSC	Ø F ± .003 (.08)	G THREAD
8	.5000-.1P-.3L-TS-2A	.316 (8.03)	1.150 (29.21)	.850 (21.59)	.660 (16.76)	.096 (2.44) .091 (2.31)	.3750-32 UNEF-2A
9	.5625-.1P-.3L-TS-2A	.397 (10.08)	1.230 (31.24)	.913 (23.19)	.723 (18.36)		.4375-28 UNEF-2A
10	.6250-.1P-.3L-TS-2A	.472 (11.99)	1.330 (33.78)	.975 (24.76)	.785 (19.94)		.5000-28 UNEF-2A
11	.6875-.1P-.3L-TS-2A	.519 (13.18)	1.410 (35.81)	1.039 (26.39)	.848 (21.54)		.5625-24 UNEF-2A
12	.7500-.1P-.3L-TS-2A	.585 (14.86)	1.500 (38.10)	1.099 (27.91)	.909 (23.09)		.6250-24 UNEF-2A
13	.8125-.1P-.3L-TS-2A	.646 (16.41)	1.590 (40.39)	1.163 (29.54)	.973 (24.71)		.6875-24 UNEF-2A
15	.9375-.1P-.3L-TS-2A	.687 (17.45)	1.750 (44.45)	1.288 (32.72)	1.058 (26.87)	.130 (3.30) .126 (3.20)	.7500-20 UNEF-2A
18	1.1250-.1P-.3L-TS-2A	.884 (22.45)	2.000 (50.80)	1.475 (37.47)	1.255 (31.88)		.9375-20 UNEF-2A
19	1.1875-.1P-.3L-TS-2A	.884 (22.45)	2.094 (53.19)	1.537 (39.04)	1.327 (33.71)		.9375-20 UNEF-2A
21	1.3125-.1P-.3L-TS-2A	1.003 (25.48)	2.270 (57.66)	1.663 (42.24)	1.452 (36.88)		1.0625-18 UNEF-2A
23	1.4375-.1P-.3L-TS-2A	1.134 (28.80)	2.440 (61.98)	1.787 (45.39)	1.570 (39.88)		1.1875-18 UNEF-2A

*Max Panel Thickness .093"

JAM NUT RECEPTACLE - SHELL STYLE 24



DIMENSIONS (IN)							
SHELL SIZE	A THREAD .1P-.3L-TS-2A	Ø B	Ø C	D FLAT	E FLAT	F THREADS	G ACCESSORY THREAD
8	.5000	.316 (8.03)	.760 (19.30)	.730 (18.54)	.535 (13.59)	.5625-28 UNEF-2A	.3750-32 UNEF-2A
9	.5625	.397 (10.08)	.880 (22.35)	.850 (21.59)	.661 (16.79)	.6875-28 UN-2A	.4375-28 UNEF-2A
10	.6250	.472 (11.99)	.880 (22.35)	.850 (21.59)	.661 (16.79)	.6875-28 UN-2A	.5000-28 UNEF-2A
11	.6875	.519 (13.18)	.955 (24.26)	.925 (23.50)	.721 (18.31)	.7500-28 UN-2A	.5625-24 UNEF-2A
12	.7500	.585 (14.86)	1.060 (26.92)	1.035 (26.29)	.784 (19.91)	.8125-28 UN-2A	.6250-24 UNEF-2A
13	.8125	.646 (16.41)	1.120 (28.45)	1.090 (27.69)	.843 (21.41)	.8750-28 UN-2A	.6875-24 UNEF-2A
15	.9375	.687 (17.45)	1.203 (30.56)	1.173 (29.79)	.970 (24.64)	1.0000-28 UN-2A	.7500-20 UNEF-2A
18	1.1250	.884 (22.45)	1.389 (35.28)	1.359 (34.52)	1.147 (29.13)	1.1875-28 UN-2A	.9375-20 UNEF-2A
19	1.1875	.884 (22.45)	1.450 (36.83)	1.420 (36.07)	1.221 (31.01)	1.2500-28 UN-2A	.9375-20 UNEF-2A
21	1.3125	1.003 (25.48)	1.590 (40.39)	1.560 (39.62)	1.350 (34.29)	1.3750-28 UN-2A	1.0625-18 UNEF-2A
23	1.4375	1.134 (28.80)	1.705 (43.31)	1.675 (42.55)	1.470 (37.34)	1.5000-28 UN-2A	1.1875-18 UNEF-2A

38999 SERIES I, II, III, IV COMMERCIAL CONNECTOR SERIES



TopFlite specializes in the design and manufacture of D38999 Commercial Equivalent Connectors that are offered in a variety of materials, finishes, and contact styles including Printed Circuit Board, Solder, and Crimp termination. The TopFlite Advantage is that the customer can fully customize the connector design, including but not limited to overall length, custom insert arrangements, flange size or style, specialty materials, integrated backshells, fully sealed, and more. If an option(s) is not listed in the part number builder below, TopFlite can issue a specialty "Z-Code" to the end of the part number nomenclature to cover any custom alterations the customer may require for their application. Remember, TopFlite specializes in custom connector design and consulting, so if you can't find it, chances are we can make it!

PART NUMBER BUILDER												
EXAMPLE PART NUMBER	TFC-	32	H	16	TH	F	09-35	P	N	-020500	-W	-ZXXX
STANDARD PREFIX												
CONNECTOR TYPE	501 - D38999 SERIES 1 PLUG 502 - D38999 SERIES 1 RECEPTACLE 510 - D38999 SERIES 2 PLUG 511 - D38999 SERIES 2 RECEPTACLE 32 - D38999 SERIES 3 PLUG 33 - D38999 SERIES 3 RECEPTACLE 46 - D38999 SERIES 4 PLUG ⁵ 44 - D38999 SERIES 4 RECEPTACLE ⁵											
HERMETICALLY SEALED	H - INCLUDES GLASS/CERAMIC HERMETIC SEALING (OMIT FOR NONE)											
STYLE	06 - STANDARD PLUG (D38999/26 STYLE, NO RATCHET) 16 - ANTI-DECOUPLING PLUG (D38999/26 STYLE, W/ RATCHET) 07 - JAM NUT RECEPTACLE (D38999/24 STYLE) 22 - INLINE RECEPTACLE 20 - BOX MOUNT RECEPTACLE (D38999/20 STYLE)											
BACKEND STYLE	TH - THREADED BACK IT - INTEGRATED TERMINATION TAIL CS - CASTLE BACK FB - FLAT BACK (PC TAIL OR SOLDER CONTACTS ONLY)											
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)											
SIZE & INSERT ARRANGEMENT	09-35 11-35 13-04 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)											
CONTACT STYLE	P - CRIMP PIN S - CRIMP SOCKET PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET XP - NO PIN CONTACTS XS - NO SOCKET CONTACTS											
POLARIZATION	A B C ETC. (SEE MIL-DTL-38999 PROCUREMENT SPECIFICATION)											
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)											
WIRE HOLES	W - WITH WIRE HOLES (OMIT FOR NONE)											
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)											

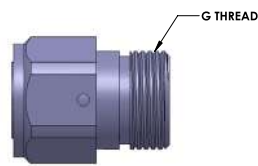
Notes

1. Consult Factory for any required options not seen listed above
2. Connectors with Solder Cup or PC Tail Contact Options are Backpotted
3. Hermetic Sealing only available with Non-Crimp, Pin Contact Connectors
4. See Appendix B for Performance Data
5. Consult factory for Series IV Connectors

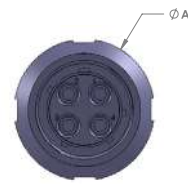
PLUG SERIES 501 - SHELL STYLE 06/16



ITR REAR



THREADED REAR



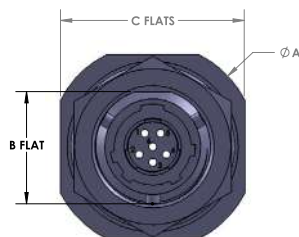
STANDARD COUPLING



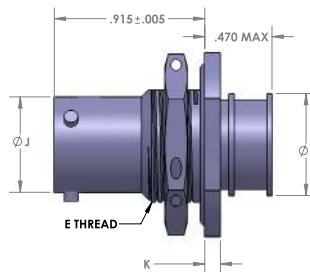
HEX COUPLING

DIMENSIONS (IN)				
SHELL SIZE	A MAX	B	F	G THREAD
9	0.859	0.845	0.625	.4375-28
11	0.984	0.960	0.750	.5625-24
13	1.156	1.130	0.875	.6875-24
15	1.281	1.260	1.000	.8125-20
17	1.406	1.380	1.125	.9375-20
19	1.516	1.500	1.250	1.0625-18
21	1.641	1.620	1.312	1.1875-18
23	1.766	1.745	1.437	1.3125-18
25	1.891	1.870	1.562	1.4375-18

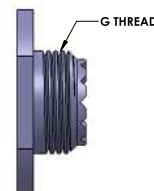
JAM NUT RECEPTACLE SERIES 502 - SHELL STYLE 24



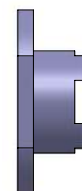
FRONT VIEW



ITR REAR



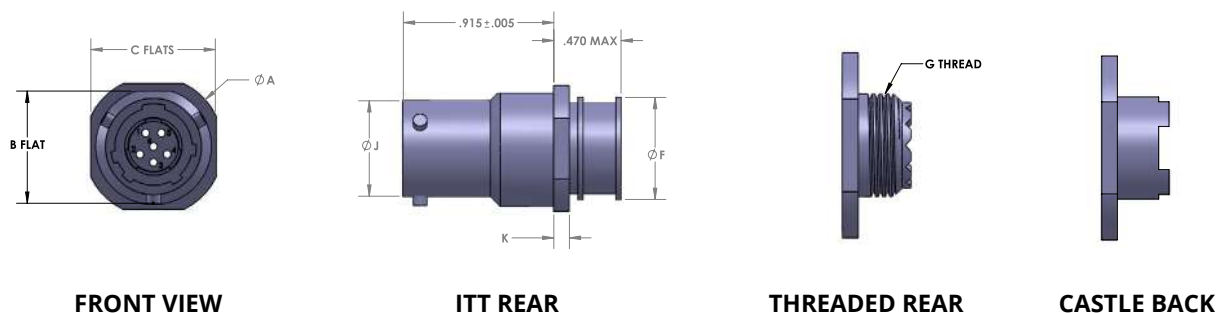
THREADED REAR



CASTLE BACK

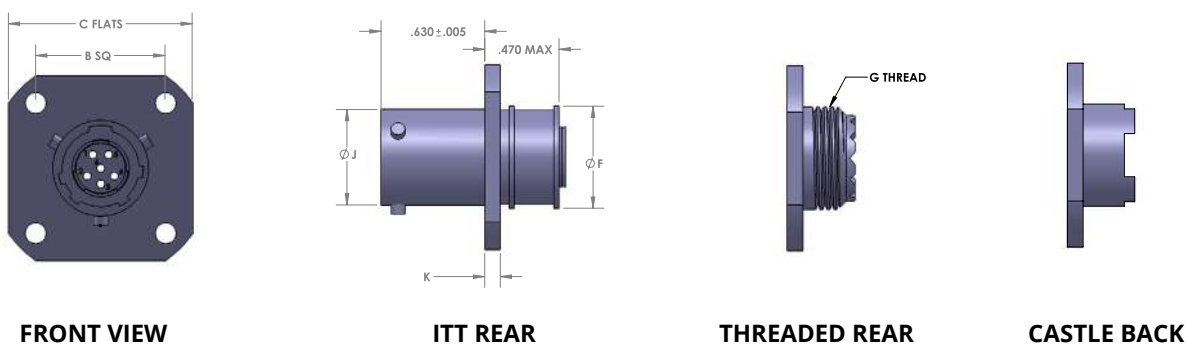
DIMENSIONS (IN)								
SHELL SIZE	A	B FLAT	C FLAT	E THREAD	G THREAD	F	J	K
9	1.188	0.651	1.063	.6875-24	.4375-28	0.625	0.572	0.110
11	1.375	0.751	1.252	.8125-20	.5625-24	0.750	0.700	0.110
13	1.500	0.938	1.374	1.000-20	.6875-24	0.875	0.850	0.110
15	1.625	1.062	1.500	1.125-18	.8125-20	1.000	0.975	0.110
17	1.750	1.187	1.626	1.250-18	.9375-20	1.125	1.100	0.110
19	1.938	1.312	1.811	1.375-18	1.0625-18	1.250	1.207	0.140
21	2.062	1.437	1.937	1.500-18	1.1875-18	1.312	1.332	0.140
23	2.188	1.562	2.063	1.625-18	1.3125-18	1.437	1.457	0.140
25	2.312	1.687	2.189	1.750-18	1.4375-18	1.562	1.582	0.140

INLINE CABLE RECEPTACLE SERIES 502 - SHELL STYLE 22



DIMENSIONS (IN)							
SHELL SIZE	A	B FLAT	C FLAT	G THREAD	F	J	K
9	1.188	0.651	0.750	.4375-28	0.625	0.572	0.110
11	1.375	0.751	0.875	.5625-24	0.750	0.700	0.110
13	1.500	0.938	1.062	.6875-24	0.875	0.850	0.110
15	1.625	1.062	1.187	.8125-20	1.000	0.975	0.110
17	1.750	1.187	1.312	.9375-20	1.125	1.100	0.110
19	1.938	1.312	1.437	1.0625-18	1.250	1.207	0.140
21	2.062	1.437	1.562	1.1875-18	1.312	1.332	0.140
23	2.188	1.562	1.687	1.3125-18	1.437	1.457	0.140
25	2.312	1.687	1.812	1.4375-18	1.562	1.582	0.140

BOX MOUNT RECEPTACLE SERIES 502 - SHELL STYLE 20

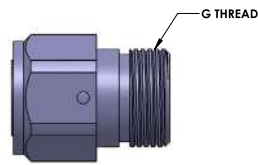


DIMENSIONS (IN)						
SHELL SIZE	B	C FLAT	G THREAD	F	J	K
9	0.719	0.938	.4375-28	0.625	0.572	0.085
11	0.812	1.031	.5625-24	0.750	0.700	0.085
13	0.896	1.125	.6875-24	0.875	0.850	0.085
15	0.969	1.219	.8125-20	1.000	0.975	0.085
17	1.062	1.312	.9375-20	1.125	1.100	0.085
19	1.156	1.438	1.0625-18	1.250	1.207	0.085
21	1.250	1.562	1.1875-18	1.312	1.332	0.115
23	1.375	1.688	1.3125-18	1.437	1.457	0.115
25	1.500	1.812	1.4375-18	1.562	1.582	0.115

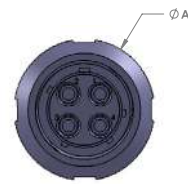
PLUG SERIES 510 - SHELL STYLE 06/16



ITR REAR



THREADED REAR



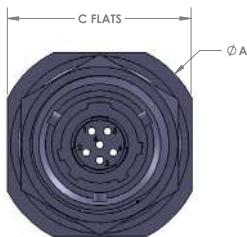
STANDARD COUPLING



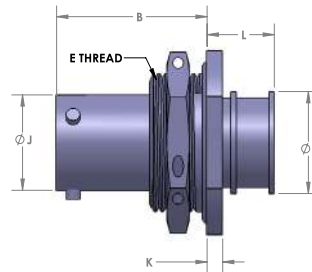
HEX COUPLING

DIMENSIONS (IN)				
SHELL SIZE	A MAX	B	F	G THREAD
8	0.750	0.730	0.625	.4375-28
10	0.859	0.840	0.750	.5625-24
12	1.031	1.010	0.875	.6875-24
14	1.156	1.350	1.000	.8125-20
16	1.281	1.260	1.125	.9375-20
18	1.406	1.385	1.250	1.0625-18
20	1.531	1.510	1.312	1.1875-18
22	1.641	1.620	1.437	1.3125-18
24	1.766	1.745	1.562	1.4375-18

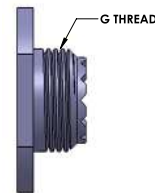
JAM NUT RECEPTACLE SERIES 511 - SHELL STYLE 24



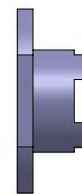
FRONT VIEW



ITR REAR



THREADED REAR



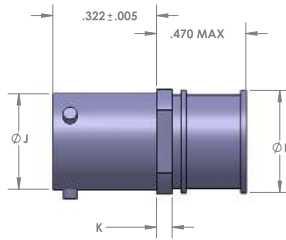
CASTLE BACK

DIMENSIONS (IN)									
SHELL SIZE	A	B	C FLAT	E THREAD	G THREAD	F	J	K	L MAX
8	1.375	0.438	1.250	.875-20	.4375-28	0.625	0.473	0.094	0.516
10	1.500	0.438	1.375	1.000-20	.5625-24	0.750	0.590	0.094	0.516
12	1.625	0.438	1.500	1.125-18	.6875-24	0.875	0.750	0.094	0.516
14	1.750	0.438	1.625	1.250-18	.8125-20	1.000	0.875	0.094	0.516
16	1.938	0.438	1.781	1.375-18	.9375-20	1.125	1.000	0.094	0.516
18	2.016	0.438	1.890	1.500-18	1.0625-18	1.250	1.125	0.094	0.516
20	2.141	0.464	2.016	1.625-18	1.1875-18	1.312	1.250	0.094	0.484
22	2.265	0.464	2.140	1.750-18	1.3125-18	1.437	1.375	0.094	0.484
24	2.390	0.464	2.265	1.875-16	1.4375-18	1.562	1.500	0.094	0.484

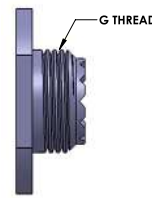
INLINE CABLE RECEPTACLE SERIES 511 - SHELL STYLE 22



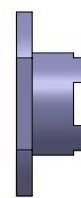
FRONT VIEW



ITT REAR



THREADED REAR

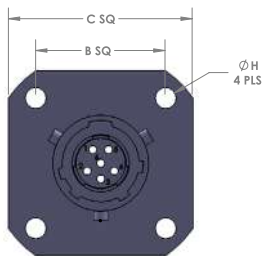


CASTLE BACK

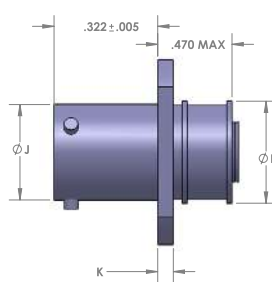
DIMENSIONS (IN)

SHELL SIZE	B	G THREAD	F	J	K
8	0.525	.4375-28	0.625	0.473	0.063
10	0.650	.5625-24	0.750	0.590	0.063
12	0.820	.6875-24	0.875	0.750	0.063
14	0.950	.8125-20	1.000	0.875	0.063
16	1.050	.9375-20	1.125	1.000	0.063
18	1.175	1.0625-18	1.250	1.125	0.063
20	1.300	1.1875-18	1.312	1.250	0.063
22	1.425	1.3125-18	1.437	1.375	0.063
24	1.550	1.4375-18	1.562	1.500	0.063

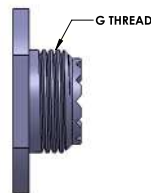
BOX MOUNT RECEPTACLE SERIES 511 - SHELL STYLE 20



FRONT VIEW



ITT REAR



THREADED REAR



CASTLE BACK

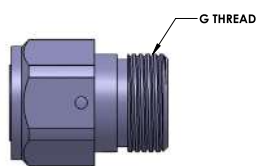
DIMENSIONS (IN)

SHELL SIZE	B	C	G THREAD	F	H	J	K
8	0.594	0.828	.4375-28	0.625	0.120	0.473	0.063
10	0.719	0.954	.5625-24	0.750	0.120	0.590	0.063
12	0.812	1.047	.6875-24	0.875	0.120	0.750	0.063
14	0.906	1.141	.8125-20	1.000	0.120	0.875	0.063
16	0.969	1.234	.9375-20	1.125	0.120	1.000	0.063
18	1.062	1.328	1.0625-18	1.250	0.120	1.125	0.063
20	1.156	1.453	1.1875-18	1.312	0.120	1.250	0.063
22	1.250	1.578	1.3125-18	1.437	0.120	1.375	0.063
24	1.375	1.703	1.4375-18	1.562	0.147	1.500	0.063

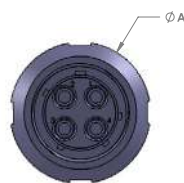
PLUG SERIES 32 - SHELL STYLE 06/16



ITT REAR



THREADED REAR



STANDARD COUPLING

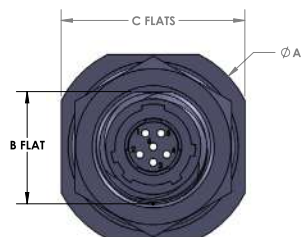


HEX COUPLING

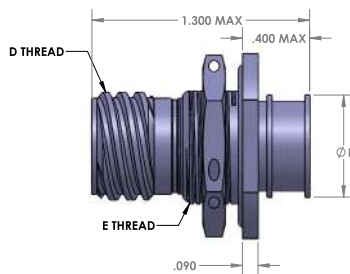
DIMENSIONS (IN)

SHELL SIZE	A MAX	B	MATING THREAD	F	G THREAD
9	0.858	0.808	.6250-.1P-.3L	0.625	M12x1.0-6g 0.100R
11	0.984	0.922	.7500-.1P-.3L	0.750	M15x1.0-6g 0.100R
13	1.157	1.090	.8750-.1P-.3L	0.875	M18x1.0-6g 0.100R
15	1.270	1.210	1.0000-.1P-.3L	1.000	M22x1.0-6g 0.100R
17	1.400	1.350	1.1875-.1P-.3L	1.125	M25x1.0-6g 0.100R
19	1.510	1.450	1.2500-.1P-.3L	1.250	M28x1.0-6g 0.100R
21	1.640	1.580	1.3750-.1P-.3L	1.312	M31x1.0-6g 0.100R
23	1.760	1.700	1.5000-.1P-.3L	1.437	M34x1.0-6g 0.100R
25	1.880	1.820	1.6250-.1P-.3L	1.562	M37x1.0-6g 0.100R

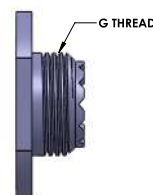
JAM NUT RECEPTACLE SERIES 33 - SHELL STYLE 24



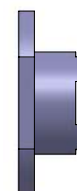
FRONT VIEW



ITT REAR



THREADED REAR

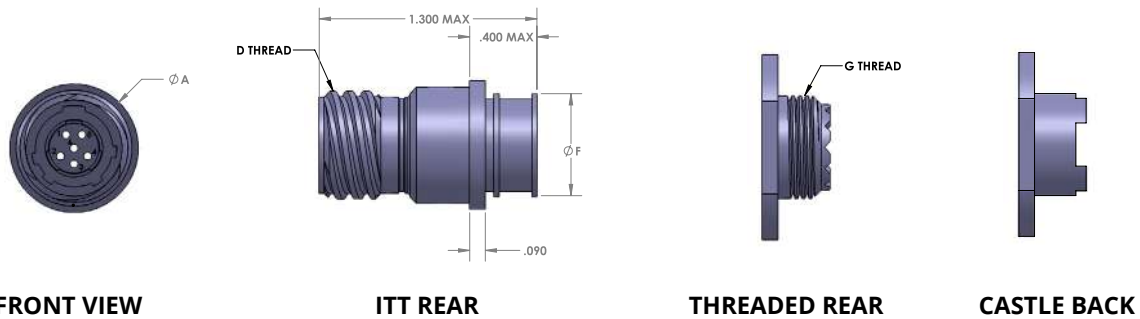


CASTLE BACK

DIMENSIONS (IN)

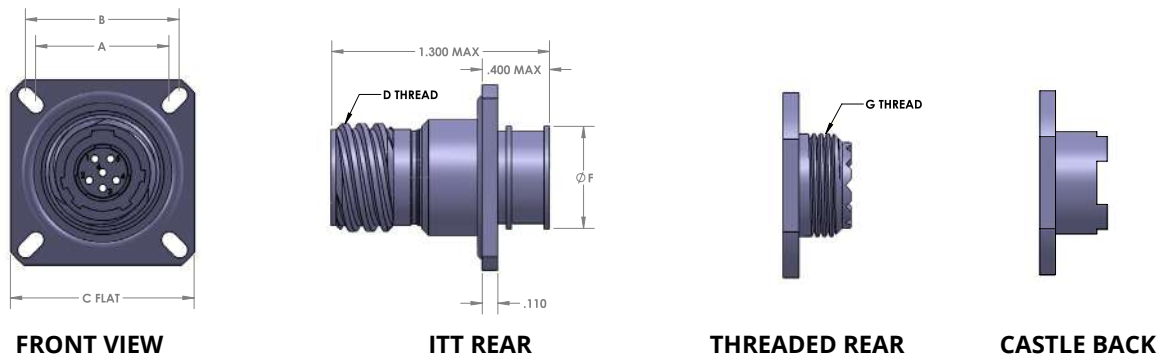
SHELL SIZE	A	B FLAT	C FLAT	D THREAD	E THREAD	F	G THREAD
9	1.189	0.651	1.063	.6250-.1P-.3L	M17x1-6g 0.100R	0.625	M12x1.0-6g 0.100R
11	1.374	0.751	1.252	.7500-.1P-.3L	M20x1-6g 0.100R	0.750	M15x1.0-6g 0.100R
13	1.500	0.938	1.374	.8750-.1P-.3L	M25x1-6g 0.100R	0.875	M18x1.0-6g 0.100R
15	1.626	1.062	1.500	1.0000-.1P-.3L	M28x1-6g 0.100R	1.000	M22x1.0-6g 0.100R
17	1.752	1.187	1.626	1.1875-.1P-.3L	M32x1-6g 0.100R	1.125	M25x1.0-6g 0.100R
19	1.937	1.312	1.811	1.2500-.1P-.3L	M35x1-6g 0.100R	1.250	M28x1.0-6g 0.100R
21	2.063	1.437	1.937	1.3750-.1P-.3L	M38x1-6g 0.100R	1.312	M31x1.0-6g 0.100R
23	2.189	1.562	2.063	1.5000-.1P-.3L	M41x1-6g 0.100R	1.437	M34x1.0-6g 0.100R
25	2.311	1.687	2.189	1.6250-.1P-.3L	M44x1-6g 0.100R	1.562	M37x1.0-6g 0.100R

INLINE CABLE RECEPTACLE SERIES 33 - SHELL STYLE 22



DIMENSIONS (IN)				
SHELL SIZE	A	D THREAD	F	G THREAD
9	0.719	.6250-.1P-.3L	0.625	M12x1.0-6g 0.100R
11	0.837	.7500-.1P-.3L	0.750	M15x1.0-6g 0.100R
13	1.034	.8750-.1P-.3L	0.875	M18x1.0-6g 0.100R
15	1.152	1.0000-.1P-.3L	1.000	M22x1.0-6g 0.100R
17	1.310	1.1875-.1P-.3L	1.125	M25x1.0-6g 0.100R
19	1.428	1.2500-.1P-.3L	1.250	M28x1.0-6g 0.100R
21	1.546	1.3750-.1P-.3L	1.312	M31x1.0-6g 0.100R
23	1.664	1.5000-.1P-.3L	1.437	M34x1.0-6g 0.100R
25	1.782	1.6250-.1P-.3L	1.562	M37x1.0-6g 0.100R

BOX MOUNT RECEPTACLE SERIES 33 - SHELL STYLE 20



DIMENSIONS (IN)						
SHELL SIZE	A	B	C FLAT	D THREAD	F	G THREAD
9	0.594	0.719	0.937	.6250-.1P-.3L	0.625	M12x1.0-6g 0.100R
11	0.719	0.812	1.031	.7500-.1P-.3L	0.750	M15x1.0-6g 0.100R
13	0.812	0.906	1.126	.8750-.1P-.3L	0.875	M18x1.0-6g 0.100R
15	0.906	0.969	1.220	1.0000-.1P-.3L	1.000	M22x1.0-6g 0.100R
17	0.969	1.062	1.311	1.1875-.1P-.3L	1.125	M25x1.0-6g 0.100R
19	1.062	1.156	1.437	1.2500-.1P-.3L	1.250	M28x1.0-6g 0.100R
21	1.156	1.250	1.563	1.3750-.1P-.3L	1.312	M31x1.0-6g 0.100R
23	1.250	1.375	1.689	1.5000-.1P-.3L	1.437	M34x1.0-6g 0.100R
25	1.375	1.500	1.811	1.6250-.1P-.3L	1.562	M37x1.0-6g 0.100R

26482 SERIES I, II COMMERCIAL CONNECTOR SERIES



TopFlite specializes in the design and manufacture of MIL-C-26482 Commercial Equivalent Connectors that are offered in a variety of materials, finishes, and contact styles including Printed Circuit Board, Solder, and Crimp termination. The TopFlite Advantage is that the customer can fully customize the connector design, including but not limited to overall length, custom insert arrangements, flange size or style, specialty materials, integrated backshells, and more. If an option(s) is not listed in the part number builder below, TopFlite can issue a specialty "Z-Code" to the end of the part number nomenclature to cover any custom alterations the customer may require for their application. Remember, TopFlite specializes in custom connector design and consulting, so if you can't find it, chances are we can make it!

PART NUMBER BREAKDOWN												
EXAMPLE PART NUMBER	TFC-	802	H	16	TH	F	12-04	P	A	-020500	-W	-ZXXX
STANDARD PREFIX												
CONNECTOR TYPE	801- 26482 PLUG SERIES 1 802- 26482 RECEPTACLE SERIES 1 803- 26482 PLUG SERIES 2 804- 26482 RECEPTACLE SERIES 2											
HERMETICALLY SEALED	H - INCLUDES GLASS/CERAMIC HERMETIC SEALING (OMIT FOR NONE)											
STYLE	06 - STANDARD PLUG 16 - ANTI-DECOUPLING PLUG 24 - JAM NUT RECEPTACLE 22 - INLINE RECEPTACLE 20 - BOX MOUNT RECEPTACLE											
BACKEND STYLE	TH - THREADED BACK IT - INTEGRATED TERMINATION TAIL CS - CASTLE BACK FB - FLAT BACK (PC TAIL OR SOLDER CONTACTS ONLY)											
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)											
SIZE & INSERT ARRANGEMENT	08-03 10-04 12-04 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)											
CONTACT STYLE	P - CRIMP PIN S - CRIMP SOCKET PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET XP - NO PIN CONTACTS XS - NO SOCKET CONTACTS											
POLARIZATION	A B C ETC. (THIS IS A CUSTOM OPTION. OMIT FOR STANDARD)											
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)											
WIRE HOLES	W - WITH WIRE HOLES (OMIT FOR NONE)											
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)											

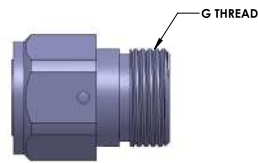
Notes

1. For Full product dimensions, refer to MIL-C-26482 Procurement Specification.
2. Consult Factory for any required options not seen listed above
3. Connectors with Solder Cup or PC Tail Contact Options are Backpotted
4. Hermetic Sealing only available with Non-Crimp, Pin Contact Connectors
5. See Appendix B for Performance Data

PLUG SERIES 801 - SHELL STYLE 06/16



ITT REAR



THREADED REAR



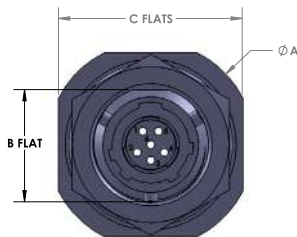
STANDARD COUPLING



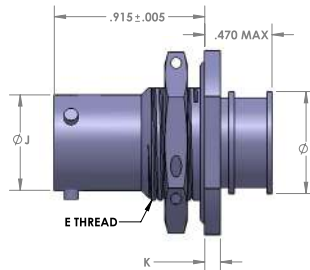
HEX COUPLING

DIMENSIONS (IN)				
SHELL SIZE	A MAX	B	F	G THREAD
8	0.782	0.752	0.500	.4375-28
10	0.926	0.896	0.625	.5625-24
12	1.043	1.013	0.750	.6875-24
14	1.183	1.153	0.875	.8125-20
16	1.305	1.275	1.000	.9375-20
18	1.391	1.361	1.062	1.0625-18
20	1.531	1.501	1.187	1.1875-18
22	1.656	1.626	1.312	1.3125-18
24	1.777	1.747	1.437	1.4375-18

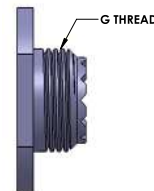
JAM NUT RECEPTACLE SERIES 802 - SHELL STYLE 24



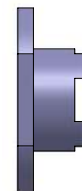
FRONT VIEW



ITT REAR



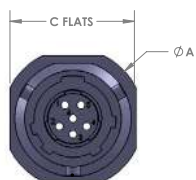
THREADED REAR



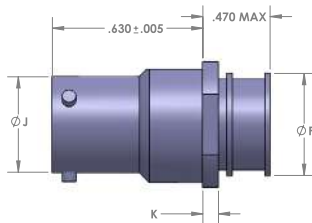
CASTLE BACK

DIMENSIONS (IN)								
SHELL SIZE	A	B FLAT	C FLAT	E THREAD	G THREAD	F	J	K
8	1.062	0.525	0.954	.5625-24	.6250-24	0.500	0.473	0.117
10	1.187	0.650	1.078	.6875-24	.7500-20	0.625	0.590	0.117
12	1.375	0.813	1.266	.8750-20	.8750-20	0.750	0.750	0.117
14	1.500	0.937	1.391	1.000-20	1.000-20	0.875	0.875	0.117
16	1.625	1.061	1.516	1.125-18	1.125-18	1.000	1.000	0.117
18	1.750	1.196	1.641	1.250-18	1.250-18	1.062	1.125	0.117
20	1.938	1.311	1.828	1.375-18	1.375-18	1.187	1.250	0.148
22	2.062	1.436	1.954	1.500-18	1.500-18	1.312	1.375	0.148
24	2.187	1.561	2.078	1.625-18	1.625-18	1.437	1.500	0.148

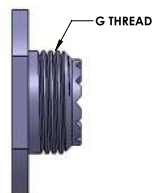
INLINE CABLE RECEPTACLE SERIES 802 - SHELL STYLE 22



FRONT VIEW



ITT REAR



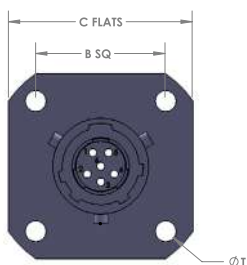
THREADED REAR



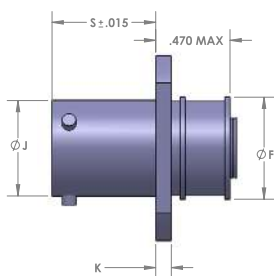
CASTLE BACK

DIMENSIONS (IN)						
SHELL SIZE	A	C FLAT	G THREAD	F	J	K
8	0.573	0.513	.4375-28	0.500	0.473	0.062
10	0.690	0.630	.5625-24	0.625	0.590	0.062
12	0.850	0.790	.6875-24	0.750	0.750	0.062
14	0.975	0.915	.8125-20	0.875	0.875	0.062
16	1.100	1.040	.9375-20	1.000	1.000	0.062
18	1.225	1.165	1.0625-18	1.062	1.125	0.062
20	1.350	1.290	1.1875-18	1.187	1.250	0.094
22	1.475	1.415	1.3125-18	1.312	1.375	0.094
24	1.600	1.540	1.4375-18	1.437	1.500	0.094

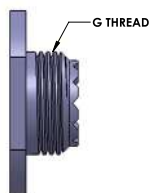
BOX MOUNT RECEPTACLE SERIES 802 - SHELL STYLE 20



FRONT VIEW



ITT REAR



THREADED REAR



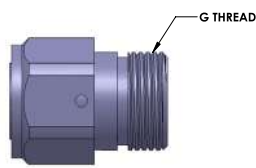
CASTLE BACK

DIMENSIONS (IN)								
SHELL SIZE	B	C FLAT	G THREAD	F	J	K	S	T
8	0.594	0.828	.4375-28	0.500	0.473	0.062	0.446	0.120
10	0.719	0.954	.5625-24	0.625	0.590	0.062	0.446	0.120
12	0.812	1.047	.6875-24	0.750	0.750	0.062	0.446	0.120
14	0.906	1.141	.8125-20	0.875	0.875	0.062	0.446	0.120
16	0.969	1.234	.9375-20	1.000	1.000	0.062	0.446	0.120
18	1.062	1.326	1.0625-18	1.062	1.125	0.062	0.446	0.120
20	1.156	1.453	1.1875-18	1.187	1.250	0.094	0.571	0.120
22	1.250	1.578	1.3125-18	1.312	1.375	0.094	0.571	0.120
24	1.375	1.703	1.4375-18	1.437	1.500	0.094	0.604	0.147

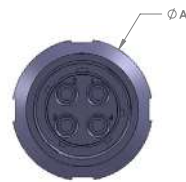
PLUG SERIES 803 - SHELL STYLE 06/16



ITT REAR



THREADED REAR



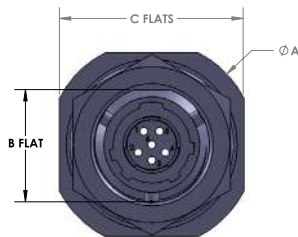
STANDARD COUPLING



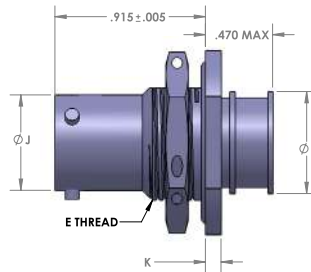
HEX COUPLING

DIMENSIONS (IN)				
SHELL SIZE	A MAX	B	F	G THREAD
8	0.782	0.752	0.500	.500-20
10	0.926	0.896	0.625	.625-24
12	1.043	1.013	0.750	.750-20
14	1.183	1.153	0.875	.875-20
16	1.305	1.275	1.000	1.000-20
18	1.391	1.361	1.062	1.0625-18
20	1.531	1.501	1.187	1.1875-18
22	1.656	1.626	1.312	1.3125-18
24	1.777	1.747	1.437	1.4375-18

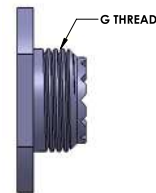
JAM NUT RECEPTACLE SERIES 804 - SHELL STYLE 24



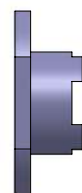
FRONT VIEW



ITT REAR



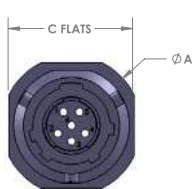
THREADED REAR



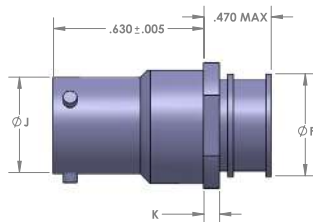
CASTLE BACK

DIMENSIONS (IN)								
SHELL SIZE	A	B FLAT	C FLAT	E THREAD	G THREAD	F	J	K
8	1.062	0.525	0.954	.5625-24	.500-20	0.500	0.473	0.117
10	1.187	0.650	1.078	.6875-24	.625-24	0.625	0.590	0.117
12	1.375	0.813	1.266	.8750-20	.750-20	0.750	0.750	0.117
14	1.500	0.937	1.391	1.000-20	.875-20	0.875	0.875	0.117
16	1.625	1.061	1.516	1.125-18	1.000-20	1.000	1.000	0.117
18	1.750	1.196	1.641	1.250-18	1.0625-18	1.062	1.125	0.117
20	1.938	1.311	1.828	1.375-18	1.1875-18	1.187	1.250	0.117
22	2.062	1.436	1.954	1.500-18	1.3125-18	1.312	1.375	0.117
24	2.187	1.561	2.078	1.625-18	1.4375-18	1.437	1.500	0.117

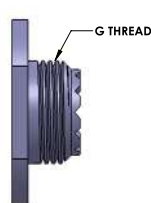
INLINE CABLE RECEPTACLE SERIES 804 - SHELL STYLE 22



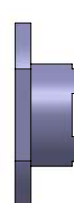
FRONT VIEW



ITT REAR



THREADED REAR

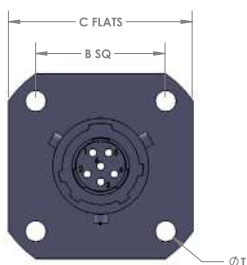


CASTLE BACK

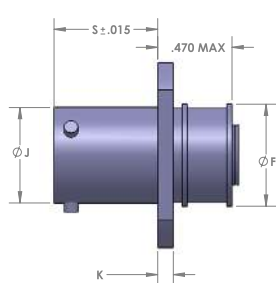
DIMENSIONS (IN)

SHELL SIZE	A	C FLAT	G THREAD	F	J	K
8	0.573	0.513	.500-20	0.500	0.473	0.062
10	0.690	0.630	.625-24	0.625	0.590	0.062
12	0.850	0.790	.750-20	0.750	0.750	0.062
14	0.975	0.915	.875-20	0.875	0.875	0.062
16	1.100	1.040	1.000-20	1.000	1.000	0.062
18	1.225	1.165	1.0625-18	1.062	1.125	0.062
20	1.350	1.290	1.1875-18	1.187	1.250	0.094
22	1.475	1.415	1.3125-18	1.312	1.375	0.094
24	1.600	1.540	1.4375-18	1.437	1.500	0.094

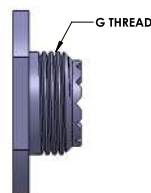
BOX MOUNT RECEPTACLE SERIES 804 - SHELL STYLE 20



FRONT VIEW



ITT REAR



THREADED REAR



CASTLE BACK

DIMENSIONS (IN)

SHELL SIZE	B	C FLAT	G THREAD	F	J	K	S	T
8	0.594	0.828	.500-20	0.500	0.473	0.062	0.446	0.120
10	0.719	0.954	.625-24	0.625	0.590	0.062	0.446	0.120
12	0.812	1.047	.750-20	0.750	0.750	0.062	0.446	0.120
14	0.906	1.141	.875-20	0.875	0.875	0.062	0.446	0.120
16	0.969	1.234	1.000-20	1.000	1.000	0.062	0.446	0.120
18	1.062	1.326	1.0625-18	1.062	1.125	0.062	0.446	0.120
20	1.156	1.453	1.1875-18	1.187	1.250	0.094	0.571	0.120
22	1.250	1.578	1.3125-18	1.312	1.375	0.094	0.571	0.120
24	1.375	1.703	1.4375-18	1.437	1.500	0.094	0.604	0.147

5015 SERIES COMMERCIAL CONNECTOR SERIES



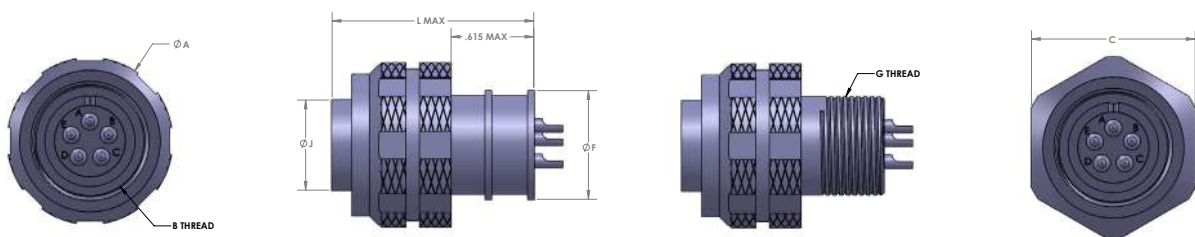
TopFlite specializes in the design and manufacture of MIL-C-5015 Commercial Equivalent Connectors that are offered in a variety of materials, finishes, and contact styles including Printed Circuit Board, Solder, and Crimp termination. The TopFlite Advantage is that the customer can fully customize the connector design, including but not limited to overall length, custom insert arrangements, flange size or style, specialty materials, integrated backshells, and more. If an option(s) is not listed in the part number builder below, TopFlite can issue a specialty "Z-Code" to the end of the part number nomenclature to cover any custom alterations the customer may require for their application. Remember, TopFlite specializes in custom connector design and consulting, so if you can't find it, chances are we can make it!

PART NUMBER BREAKDOWN											
EXAMPLE PART NUMBER	TFC-	42	H	06	TH	F	10S-02	P	-020500	-W	-ZXXX
STANDARD PREFIX											
CONNECTOR TYPE	42 - PLUG 43 - RECEPTACLE										
HERMETICALLY SEALED	H - INCLUDES GLASS/CERAMIC HERMETIC SEALING (OMIT FOR NONE)										
STYLE	06 - STANDARD PLUG 22 - INLINE RECEPTACLE 20 - BOX MOUNT RECEPTACLE (MS3400 STYLE)										
BACKEND STYLE	TH - THREADED BACK IT - INTEGRATED TERMINATION TAIL CS - CASTLE BACK FB - FLAT BACK (PC TAIL OR SOLDER CONTACTS ONLY)										
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)										
SIZE & INSERT ARRANGEMENT	10SL-04 10S-02 12S-03 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)										
CONTACT STYLE	P - CRIMP PIN S - CRIMP SOCKET PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET XP - NO PIN CONTACTS XS - NO SOCKET CONTACTS										
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)										
WIRE HOLES	W - WITH WIRE HOLES (OMIT FOR NONE)										
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)										

Notes

1. For Full product dimensions, refer to MIL-C-5015 Procurement Specification.
2. Consult Factory for any required options not seen listed above
3. Connectors with Solder Cup or PC Tail Contact Options are Backpotted
4. Hermetic Sealing only available with Non-Crimp, Pin Contact Connectors
5. See Appendix B for General Performance Data

PLUG SERIES 42 - SHELL STYLE 06



STANDARD COUPLING

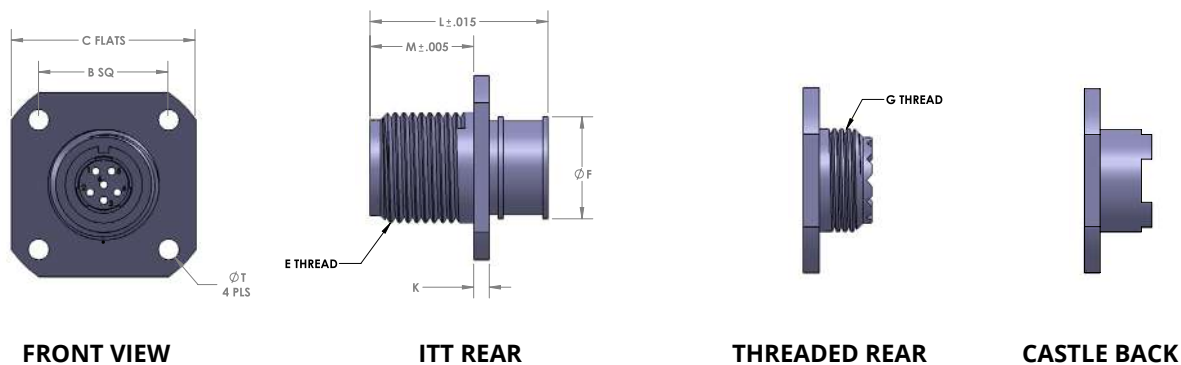
ITT REAR

THREADED REAR

HEX COUPLING

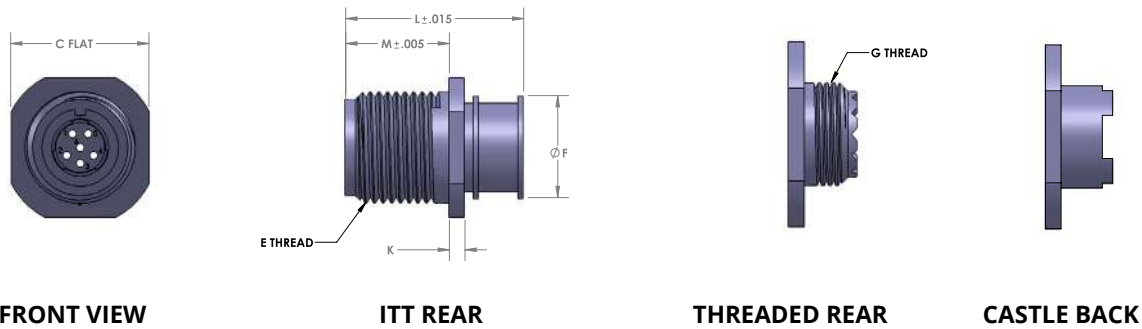
DIMENSIONS (IN)						
SHELL SIZE	A MAX	B THREAD	C	F	G THREAD	L
8S	0.844	.5000-28	0.794	0.562	.5000-20	1.460
10S	0.969	.6250-24	0.919	0.687	.6250-24	1.530
10SL	0.969	.6250-24	0.919	0.687	.6250-24	1.530
12S	1.062	.7500-20	1.012	0.812	.7500-20	1.688
12	1.062	.7500-20	1.012	0.812	.7500-20	2.062
14S	1.156	.8750-20	1.106	0.937	.8750-20	1.688
14	1.156	.8750-20	1.106	0.937	.8750-20	2.062
16S	1.250	1.000-20	1.200	1.062	1.000-20	1.688
16	1.250	1.000-20	1.200	1.062	1.000-20	2.062
18	1.344	1.125-18	1.294	1.125	1.0625-18	2.062
20	1.469	1.250-18	1.419	1.250	1.1875-18	2.188
22	1.594	1.375-18	1.544	1.437	1.3125-18	2.188
24	1.719	1.500-18	1.669	1.562	1.4375-18	2.312
28	1.969	1.750-18	1.919	1.687	1.750-18	2.312
32	2.219	2.000-18	2.169	1.750	2.000-18	2.438
36	2.469	2.250-16	2.419	1.875	2.250-16	2.438
40	2.719	2.500-16	2.669	2.000	2.500-16	2.438

BOX MOUNT RECEPTACLE SERIES 43 - SHELL STYLE 20



DIMENSIONS (IN)								
SHELL SIZE	B	C	E THREAD	F	G THREAD	L	M	T
8S	0.594	0.875	.5000-28	0.562	.5000-20	1.460	0.562	0.120
10S	0.719	1.000	.6250-24	0.687	.6250-24	1.530	0.562	0.120
10SL	0.719	1.000	.6250-24	0.687	.6250-24	1.530	0.562	0.120
12S	0.812	1.094	.7500-20	0.812	.7500-20	1.688	0.562	0.120
12	0.812	1.094	.7500-20	0.812	.7500-20	2.062	0.750	0.120
14S	0.906	1.188	.8750-20	0.937	.8750-20	1.688	0.562	0.120
14	0.906	1.188	.8750-20	0.937	.8750-20	2.062	0.750	0.120
16S	0.969	1.281	1.000-20	1.062	1.000-20	1.688	0.562	0.120
16	0.969	1.281	1.000-20	1.062	1.000-20	2.062	0.750	0.120
18	1.062	1.375	1.125-18	1.125	1.0625-18	2.062	0.750	0.120
20	1.156	1.500	1.250-18	1.250	1.1875-18	2.188	0.750	0.120
22	1.250	1.625	1.375-18	1.437	1.3125-18	2.188	0.750	0.120
24	1.375	1.750	1.500-18	1.562	1.4375-18	2.312	0.812	0.147
28	1.562	2.000	1.750-18	1.687	1.750-18	2.312	0.812	0.147
32	1.750	2.250	2.000-18	1.750	2.000-18	2.438	0.875	0.173
36	1.938	2.500	2.250-16	1.875	2.250-16	2.438	0.875	0.173
40	2.188	2.750	2.500-16	2.000	2.500-16	2.438	0.875	0.173

INLINE CABLE RECEPTACLE SERIES 43 - SHELL STYLE 22



DIMENSIONS (IN)						
SHELL SIZE	C	E THREAD	F	G THREAD	L	M
8S	0.550	.5000-28	0.562	.5000-20	1.460	0.562
10S	0.675	.6250-24	0.687	.6250-24	1.530	0.562
10SL	0.675	.6250-24	0.687	.6250-24	1.530	0.562
12S	0.800	.7500-20	0.812	.7500-20	1.688	0.562
12	0.800	.7500-20	0.812	.7500-20	2.062	0.750
14S	0.925	.8750-20	0.937	.8750-20	1.688	0.562
14	0.925	.8750-20	0.937	.8750-20	2.062	0.750
16S	1.050	1.000-20	1.062	1.000-20	1.688	0.562
16	1.050	1.000-20	1.062	1.000-20	2.062	0.750
18	1.175	1.125-18	1.125	1.0625-18	2.062	0.750
20	1.300	1.250-18	1.250	1.1875-18	2.188	0.750
22	1.425	1.375-18	1.437	1.3125-18	2.188	0.750
24	1.550	1.500-18	1.562	1.4375-18	2.312	0.812
28	1.800	1.750-18	1.687	1.750-18	2.312	0.812
32	2.050	2.000-18	1.750	2.000-18	2.438	0.875
36	2.300	2.250-16	1.875	2.250-16	2.438	0.875
40	2.550	2.500-16	2.000	2.500-16	2.438	0.875

22992 (CLASS L) COMMERCIAL POWER CONNECTOR SERIES



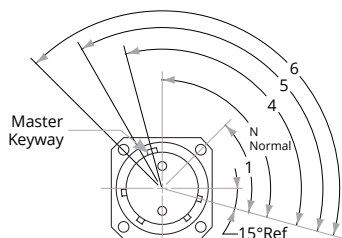
TopFlite specializes in the design and manufacture of MIL-DTL-22992 (Class L) Commercial Equivalent Power Connectors that are offered in a variety of materials, finishes, and contact styles including Solder and Crimp termination. The TopFlite Advantage is that the customer can fully customize the connector design, including but not limited to overall length, custom insert arrangements, flange size or style, specialty materials, integrated backshells, and more. If an option(s) is not listed in the part number builder below, TopFlite can issue a specialty “Z-Code” to the end of the part number nomenclature to cover any custom alterations the customer may require for their application. Remember, TopFlite specializes in custom connector design and consulting, so if you can’t find it, chances are we can make it!

PART NUMBER BREAKDOWN											
EXAMPLE PART NUMBER	TFC-	29	H	22	TH	F	32-04	P	N	-W	-ZXXX
STANDARD PREFIX											
CONNECTOR TYPE	29- PLUG/RECEPTACLE										
HERMETICALLY SEALED	H- INCLUDES GLASS/CERAMIC HERMETIC SEALING (OMIT FOR NONE)										
STYLE	06- STANDARD PLUG 09- WALL MOUNT PLUG 22- INLINE RECEPTACLE 20- BOX MOUNT RECEPTACLE										
BACKEND STYLE	TH- THREADED BACK IT- INTEGRATED TERMINATION TAIL CS- CASTLE BACK FB- FLAT BACK (PC TAIL OR SOLDER CONTACTS ONLY)										
MATERIAL/ FINISH	F- ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A- ALUMINUM W/ BLACK ANODIZE D- ALUMINUM W/ OLIVE DRAB CADMIUM T- ALUMINUM W/ NICKEL TEFLON/PTFE K- STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)										
SIZE & INSERT ARRANGEMENT	28-12, 28-13 (40 AMP RATING) 32-04, 32-05, 32-12, 32-13 (60 AMP RATING) 44-02, 44-03, 44-12, 44-13, 44-50, 44-51, 44-52, 44-56 (100 AMP RATING) 52-12, 52-13 (200 AMP RATING)										
CONTACT STYLE	P- CRIMP PIN S- CRIMP SOCKET PS- SOLDER CUP PIN SS- SOLDER CUP SOCKET XP- NO PIN CONTACTS XS- NO SOCKET CONTACTS										
MASTER KEYWAY POSITION	N 1 4 5 6										
ALTERNATE INSERT ROTATION	N W X Y Z										
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)										

Notes

1. For Full product dimensions, refer to MIL-DTL-22992 Procurement Specification.
2. Consult Factory for any required options not seen listed above
3. Connectors with Solder Cup Contact Options are Backpotted
4. Hermetic Sealing only available with Non-Crimp, Pin Contact Connectors
5. See Appendix B for General Performance Data

KEYWAY AND INSERT POSITIONS



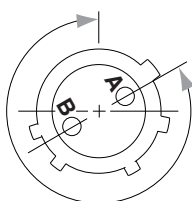
**FRONT FACE OF
RECEPTACLE**

MASTER KEY/KEYWAY POSITION

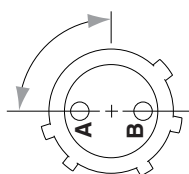
N	DC, 2 Wire, 28 VDC
1	AC, 3 PHASE, 3 WIRE, 450/480 VAC
4	AC, 1 Phase, 2 Wire, 120 VAC
4	AC, 1 Phase, 3 Wire, 120/240 VAC
4	AC, 3 Phase, 4 Wire, 120/208 VAC
5	AC, 1 Phase, 2 Wire, 240 VAC
5	AC, 3 Phase, 4 Wire, 240/416 VAC
6	AC, 3 PHASE, 4 WIRE, 277/480 VAC

MASTER KEY/KEYWAY POSITION

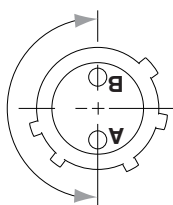
SHELL SIZE	CURRENT RATING (AMPS)	ALTERNATING CURRENT (AC) 60HZ & 400HZ							DIRECT CURRENT (DC)
		1 PHASE			3 PHASE				
		2 WIRE		3 WIRE	3 WIRE	4 WIRE			2 WIRE
		120 VAC	240 VAC	120/240 VAC	450/480 VAC	120/208 VAC	240/416 VAC	277/480 VAC	28 VDC
28	40	4	5	4	-	4	5	6	N
32	60	4	5	4	-	4	5	6	N
44	100	4	-	4	1	4	5	6	N
52	200	-	-	4	-	4	5	6	N



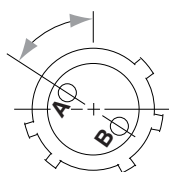
W ROTATION



X ROTATION



Y ROTATION

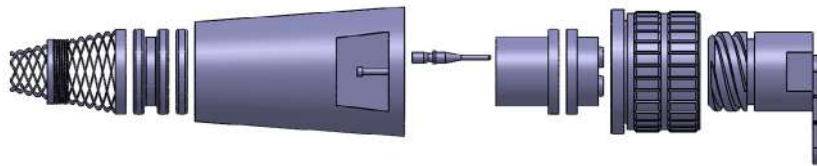


Z ROTATION

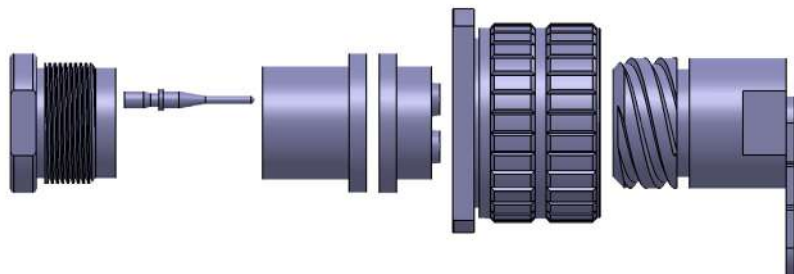
ALTERNATE INSERT ROTATIONS

INSERT ARRANGEMENT	60 HZ AC OR DC	400 HZ AC			
	NORMAL	W	X	Y	Z
28-12	0°	-	-	180°	-
28-13	0°	-	-	180°	-
32-04	0°	-	90°	-	-
32-05	0°	-	90°	-	-
32-12	0°	-	-	180°	-
32-13	0°	-	-	180°	-
44-02	0°	-	-	-	-
44-03	0°	-	-	-	-
44-12	0°	-	-	-	60°
44-13	0°	-	-	-	60°
44-50	0°	-	-	-	-
44-51	0°	-	-	-	-
44-52	0°	-	-	-	-
44-56	0°	-	-	-	-
52-12	0°	300°	-	-	-
52-13	0°	300°	-	-	-

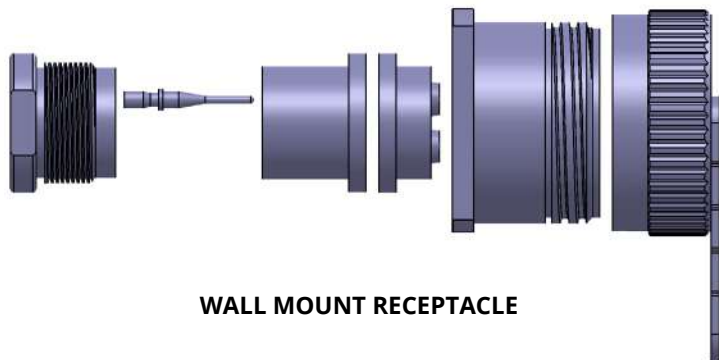
GENERAL PARTS BREAKDOWN



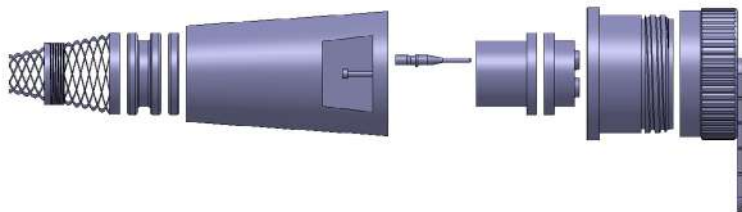
STANDARD PLUG



WALL MOUNT PLUG



WALL MOUNT RECEPTACLE

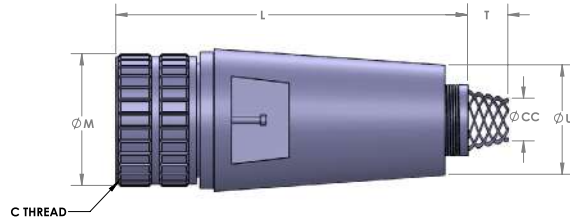


INLINE RECEPTACLE

STANDARD PLUG SERIES 29 - STYLE 06



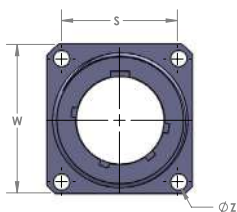
FRONT VIEW



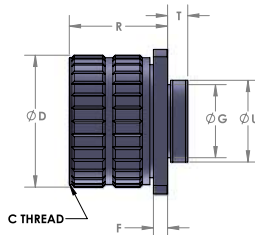
PROFILE VIEW

DIMENSIONS (IN)								
SHELL SIZE	D	C THREAD CLASS 2B	L	T	M	U	CC CABLE CLEARANCE	
							MIN	MAX
28-12	2.439 (62.0)	2.000-.1428P-.2857L	8.188 (208.0)	7.188 (182.6)	2.312 (58.7)	2.000 (50.8)	.922 (23.4)	1.047 (26.6)
28-13	2.439 (62.0)	2.000-.1428P-.2857L	8.188 (208.0)	7.188 (182.6)	2.312 (58.7)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)
32-04	2.689 (68.3)	2.250-.1428P-.2857L	8.188 (208.0)	7.188 (182.6)	2.562 (65.1)	2.000 (50.8)	.844 (21.4)	.969 (24.6)
32-05, 32-12	2.689 (68.3)	2.250-.1428P-.2857L	8.188 (208.0)	7.188 (182.6)	2.562 (65.1)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)
32-13	2.689 (68.3)	2.250-.1428P-.2857L	8.188 (208.0)	8.688 (220.7)	2.562 (65.1)	2.000 (50.8)	1.217 (30.9)	1.342 (34.1)
44-02	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	10.688 (271.5)	3.531 (89.7)	2.500 (63.5)	1.187 (30.1)	1.312 (33.3)
44-03	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	9.688 (246.1)	3.531 (89.7)	2.500 (63.5)	1.313 (33.4)	1.438 (36.5)
44-12	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	10.688 (271.5)	3.531 (89.7)	2.500 (63.5)	1.391 (35.3)	1.516 (38.5)
44-13	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	12.688 (322.3)	3.531 (89.7)	2.500 (63.5)	1.547 (39.2)	1.672 (42.5)
44-51	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	11.688 (296.9)	3.531 (89.7)	2.500 (63.5)	1.609 (40.9)	1.734 (44.0)
44-52	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	11.188 (284.2)	3.531 (89.7)	2.500 (63.5)	1.435 (36.4)	1.525 (38.7)
44-56	3.667 (93.1)	3.000-.1428P-.2857L	10.172 (258.4)	7.188 (182.6)	3.531 (89.7)	2.500 (63.5)	1.065 (27.1)	1.135 (28.8)
52-12	4.167 (105.8)	3.500-.1428P-.2857L	11.109 (282.2)	17.188 (436.6)	4.016 (102.0)	3.250 (82.6)	2.183 (55.4)	2.328 (59.1)
52-13	4.167 (105.8)	3.500-.1428P-.2857L	11.109 (282.2)	18.188 (462.0)	4.016 (102.0)	3.250 (82.6)	2.308 (58.6)	2.453 (62.3)

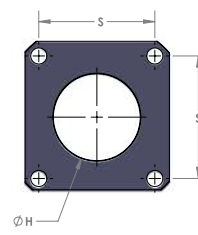
WALL MOUNT PLUG SERIES 29 - STYLE 09



FRONT VIEW



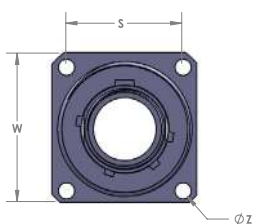
PROFILE VIEW



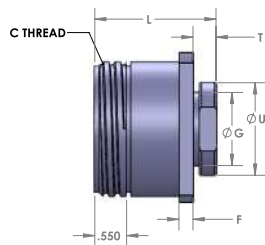
CUTOUT DIMENSIONS

DIMENSIONS (IN)											
SHELL SIZE	W	Z	C THREAD CLASS 2B	R	F	D	T	U	G	S	H
28	2.375 (60.3)	.177 (4.5)	2.000-.1428P-.2857L	2.639 (67.0)	.312 (7.9)	2.312 (58.7)	.959 (24.4)	2.000 (50.8)	1.938 (49.2)	1.844 (46.8)	1.976 (50.2)
32	2.625 (66.7)	.209 (5.3)	2.250-.1428P-.2857L	2.639 (67.0)	.312 (7.9)	2.562 (65.1)	.959 (24.4)	2.250 (57.2)	2.188 (55.6)	2.062 (52.4)	2.228 (56.6)
44	3.375 (85.7)	.281 (7.1)	3.000-.1428P-.2857L	2.998 (76.1)	.312 (7.9)	3.531 (89.7)	1.021 (25.9)	3.125 (79.4)	3.062 (77.8)	2.812 (71.4)	3.102 (78.8)
52	3.875 (98.4)	.281 (7.1)	3.500-.1428P-.2857L	2.998 (76.1)	.312 (7.9)	4.016 (102.0)	1.021 (25.9)	3.625 (92.1)	3.562 (90.5)	3.156 (80.2)	3.602 (91.5)

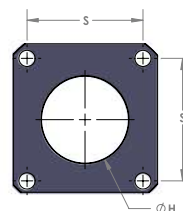
BOX MOUNT RECEPTACLE SERIES 29 - STYLE 20



FRONT VIEW



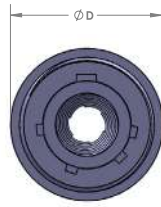
PROFILE VIEW



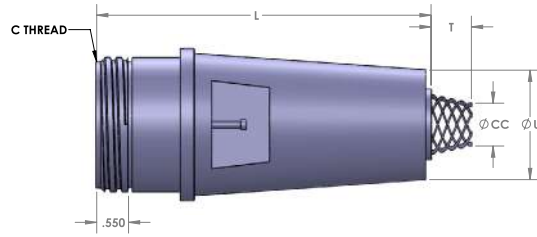
CUTOUT DIMENSIONS

DIMENSIONS (IN)										
SHELL SIZE	W	Z	C THREAD CLASS 2B	F	D	T	U	G	S	H
28	2.375 (60.3)	.177 (4.5)	2.000-.1428P-.2857L	.312 (7.9)	1.376 (35.0)	2.000 (50.8)	1.938 (49.2)	1.844 (46.8)	1.976 (50.2)	1.976 (50.2)
32	2.625 (66.7)	.209 (5.3)	2.250-.1428P-.2857L	.312 (7.9)	1.376 (35.0)	2.250 (57.2)	2.188 (55.6)	2.062 (52.4)	2.228 (56.6)	2.228 (56.6)
44	3.375 (85.7)	.281 (7.1)	3.000-.1428P-.2857L	.312 (7.9)	1.438 (36.5)	3.125 (79.4)	3.062 (77.8)	2.812 (71.4)	3.102 (78.8)	3.102 (78.8)
52	3.875 (98.4)	.281 (7.1)	3.500-.1428P-.2857L	.312 (7.9)	1.438 (36.5)	3.625 (92.1)	3.562 (90.5)	3.156 (80.2)	3.602 (91.5)	3.602 (91.5)

INLINE RECEPTACLE SERIES 29 - STYLE 22



FRONT VIEW



PROFILE VIEW

DIMENSIONS (IN)							
SHELL SIZE	D	C THREAD CLASS 2B	L	T	U	CC CABLE CLEARANCE	
						MIN	MAX
28-12	2.439 (62.0)	2.000-.1428P-.2857L	8.156 (207.2)	7.188 (182.6)	2.000 (50.8)	.922 (23.4)	1.047 (26.6)
28-13	2.439 (62.0)	2.000-.1428P-.2857L	8.156 (207.2)	7.188 (182.6)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)
32-04	2.689 (68.3)	2.250-.1428P-.2857L	8.156 (207.2)	7.188 (182.6)	2.000 (50.8)	.844 (21.4)	.969 (24.6)
32-05, 32-12	2.689 (68.3)	2.250-.1428P-.2857L	8.156 (207.2)	7.188 (182.6)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)
32-13	2.689 (68.3)	2.250-.1428P-.2857L	8.156 (207.2)	8.688 (220.7)	2.000 (50.8)	1.217 (30.9)	1.342 (34.1)
44-02	3.667 (93.1)	3.000-.1428P-.2857L	10.125 (257.2)	10.688 (271.5)	2.500 (63.5)	1.187 (30.1)	1.312 (33.3)
44-03	3.667 (93.1)	3.000-.1428P-.2857L	10.125 (257.2)	9.688 (246.1)	2.500 (63.5)	1.313 (33.4)	1.438 (36.5)
44-12	3.667 (93.1)	3.000-.1428P-.2857L	10.125 (257.2)	10.688 (271.5)	2.500 (63.5)	1.391 (35.3)	1.516 (38.5)
44-13	3.667 (93.1)	3.000-.1428P-.2857L	10.125 (257.2)	12.688 (322.3)	2.500 (63.5)	1.547 (39.2)	1.672 (42.5)
44-51	3.667 (93.1)	3.000-.1428P-.2857L	10.125 (257.2)	11.688 (296.9)	2.500 (63.5)	1.609 (40.9)	1.734 (44.0)
52-12	4.167 (105.8)	3.500-.1428P-.2857L	11.109 (282.2)	17.188 (436.6)	3.250 (82.6)	2.183 (55.4)	2.328 (59.1)
52-13	4.167 (105.8)	3.500-.1428P-.2857L	11.109 (282.2)	18.188 (462.0)	3.250 (82.6)	2.308 (58.6)	2.453 (62.3)

MDC SERIES RECTANGULAR MICRO-D (MIL-DTL-83513 EQUIVALENT)

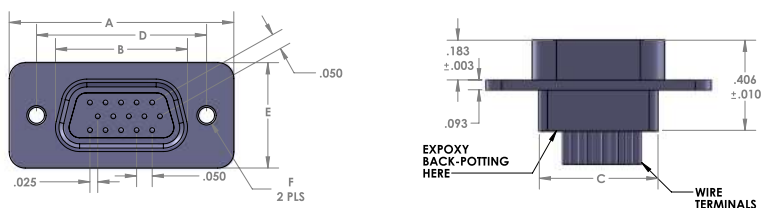


TopFlite specializes in the design and manufacture of MIL-DTL-83513 Commercial Equivalent Connectors that are offered in a variety of materials, finishes, and contact styles including Printed Circuit Board, Solder, and Wire Lead Termination. The TopFlite Advantage is that the customer can fully customize the connector design, including but not limited to overall length, custom insert arrangements, flange size or style, specialty materials, integrated backshells, and more. If an option(s) is not listed in the part number builder below, TopFlite can issue a specialty “Z-Code” to the end of the part number nomenclature to cover any custom alterations the customer may require for their application. Remember, TopFlite specializes in custom connector design and consulting, so if you can’t find it, chances are we can make it!

PART NUMBER BREAKDOWN							
EXAMPLE PART NUMBER	TFC83513/	P-	B-	W18A-	F	-020500	-ZXXX
STANDARD PREFIX							
CONTACT STYLE	P - PIN W/ WIRE TERMINALS S - SOCKET WITH WIRE TERMINALS PCP - PC TAIL PIN PCS - PC TAIL SOCKET PS - SOLDER CUP PIN SS - SOLDER CUP SOCKET						
SIZE CODE (TABLE 1)	A, B, C, D, ETC. (SEE BELOW FOR CONTACT LAYOUTS)						
WIRE CODE (TABLE 2)	W18A C36A W18B ETC. (OMIT FOR PC TAIL OR SOLDER CUP CONTACTS)						
MATERIAL/ FINISH (TABLE 3)	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR ADDITIONAL FINISHES)						
PC TAIL CONTACT SIZE	FIRST 3 DIGITS ARE THE DIAMETER, EX. 020 = .020" DIAMETER TAIL SECOND 3 DIGITS ARE THE LENGTH FROM REAR OF CONNECTOR, EX. 400 = .400" THUS, FOR EXAMPLE, -018300 WOULD EQUATE TO .018" DIAMETER & .300" LENGTH (OMIT FOR NON-PC TAIL CONTACT VERSIONS)						
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)						

Notes

1. For Full product dimensions, refer to MIL-DTL-83513 Procurement Specification.
2. Consult Factory for any required options not seen listed above
3. All versions are Backpotted
4. Hermetic Sealing only available with Non-Crimp, Pin Contact Connectors
5. See Appendix B for General Performance Data



DIMENSION (TABLE 1)

CAVITIES	SIZE CODE	A +/- .010	B	C +/- .010	D	E +/- .010	F +/- .003
9	A	0.775	0.334	0.390	0.565	0.296	0.091
15	B	0.925	0.484	0.540	0.715	0.296	0.091
21	C	1.075	0.634	0.690	0.865	0.296	0.091
25	D	1.175	0.734	0.790	0.965	0.296	0.091
31	E	1.325	0.884	0.940	1.115	0.296	0.091
37	F	1.475	1.034	1.090	1.265	0.296	0.091
51	G	1.425	0.984	1.040	1.215	0.341	0.091
100	H	2.160	1.384	1.432	1.800	0.384	0.148

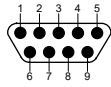
WIRE TYPE & LENGTH (TABLE 2)

CODE	LENGTH (IN)	COLOR	TYPE
W18A	18	WHITE	M22759/11-26
W36A	36	WHITE	M22759/11-26
W72A	72	WHITE	M22759/11-26
C18A	18	10 COLOR REPEATING	M22759/11-26
C36A	36	10 COLOR REPEATING	M22759/11-26
C72A	72	10 COLOR REPEATING	M22759/11-26
W18B	18	WHITE	M22759/33-26
W36B	36	WHITE	M22759/33-26
W72B	72	WHITE	M22759/33-26
C18B	18	10 COLOR REPEATING	M22759/33-26
C36B	36	10 COLOR REPEATING	M22759/33-26
C72B	72	10 COLOR REPEATING	M22759/33-26

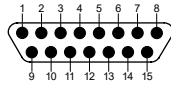
FINISH (TABLE 3)

FINISH CODE	FINISH
W	OLIVE DRAB CADMIUM
F	ELECTROLESS NICKEL
K	PASSIVATED STAINLESS
Z	BLACK ZINC NICKEL
T	NICKEL PTFE
J	CONVERSION COATING

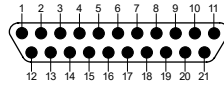
STANDARD CONTACT ARRANGEMENTS



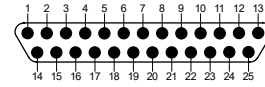
9 PIN



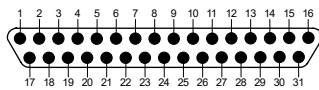
15 PIN



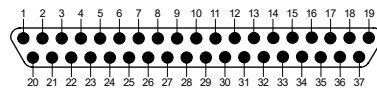
21 PIN



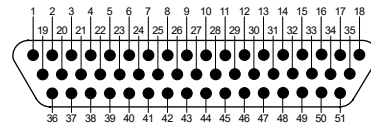
25 PIN



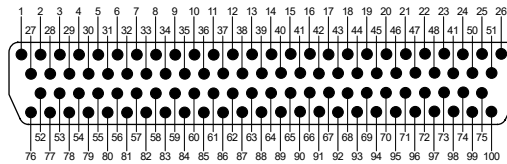
31 PIN



37 PIN



51 PIN



100 PIN

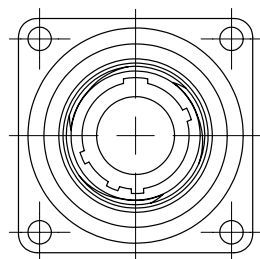
DOUBLE FLANGE, PCB MOUNT 38999 SERIES III CONNECTORS



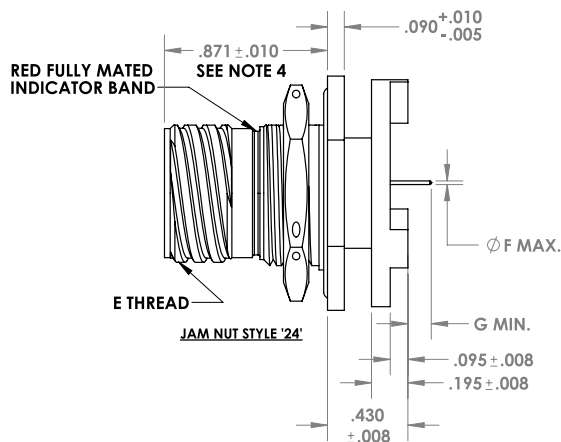
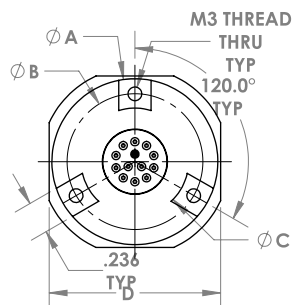
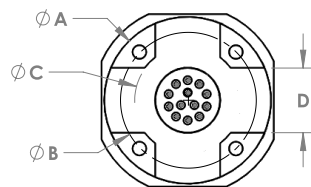
TopFlite's specialty is custom connector solutions and our Double Flange connector series is no different. Our most popular version of this line of connectors can be found listed in this section, which is the MIL-DTL-38999 Series III Style. Though if required, TopFlite can retrofit almost any known series or custom connector series to the double flange option (consult your sales representative). Like our other connector series, the Double Flange series is offered in a variety of materials and finishes. The double flange design allows the customer or end user to rigidly mount the connector to their printed circuit board application, thereby preventing the possibility of contact breakage or solder separation in harsh environment applications. If an option(s) is not listed in the part number builder below, TopFlite can issue a specialty "Z-Code" to the end of the part number nomenclature to cover any custom alterations the customer may require for their application.

PART NUMBER BREAKDOWN											
EXAMPLE PART NUMBER		TFC-	DF	H	20	F	12-04	PCP	N-	Z038	-ZXXX
STANDARD PREFIX											
CONNECTOR TYPE	DF										
HERMETICALLY SEALED	H- INCLUDES GLASS/CERAMIC HERMETIC SEALING (OMIT FOR NONE)										
STYLE	24 - JAM NUT RECEPTACLE 20 - BOX MOUNT RECEPTACLE										
MATERIAL/ FINISH	F - ALUMINUM W/ ELECTROLESS NICKEL Z - ALUMINUM W/ BLACK ZINC NICKEL A - ALUMINUM W/ BLACK ANODIZE D - ALUMINUM W/ OLIVE DRAB CADMIUM T - ALUMINUM W/ NICKEL TEFLON/PTFE K - STAINLESS W/ PASSIVATION TREATMENT (SEE PAGE 4 FOR MATERIAL AND FINISH SPECIFICATIONS & ADDITIONAL FINISHES)										
SIZE & INSERT ARRANGEMENT	13-35 15-97 25-35 ETC. (SEE APPENDIX A FOR ALL OPTIONS. CONSULT FACTORY FOR CUSTOM ARRANGEMENTS)										
CONTACT STYLE	PCP- PC TAIL PIN PCS- PC TAIL SOCKET										
POLARIZATION	A, B, C, D, N										
CONTACT LENGTH	Z037- SHORT Z038- LONG (SEE TABLES BELOW)										
Z-CODE	Z112 Z090 Z030 ETC. (CONTACT SALES STAFF IF A Z-CODE IS REQUIRED FOR A CUSTOM CONFIGURATION/OPTION(S). OMIT FOR NONE)										

DOUBLE FLANGE JAM-NUT CONNECTOR



SQUARE FLANGE STYLE '20'

3-HOLE VERSION
SIZES 9 TO 114-HOLE VERSION
SIZES 13 TO 25

CONNECTOR DIMENSION TABLE

SHELL SIZE	A	B	C	D	E THREAD
9	26	20.5	15.1	27	.625X0.1P-0.3L
11	30.8	25.2	19.9	31.8	.750X0.1P-0.3L
13	30.8	25.25	19.9	34.9	.875X0.1P-0.3L
15	33.9	28.42	23	38.1	1.000X0.1P-0.3L
17	36.8	31.42	26	41.3	1.187X0.1P-0.3L
19	40.4	35.03	29.5	46	1.250X0.1P-0.3L
21	43.2	37.82	32.5	49.2	1.375X0.1P-0.3L
23	46.5	41.12	35.5	52.4	1.500X0.1P-0.3L
25	49.6	44.3	38.6	55.6	1.625X0.1P-0.3L

CONTACT DIMENSION TABLE

CONTACT SIZE	PC TAIL SIZE	G (SIZE 09-11)	G (SIZE 13-25)	F MAX
22D	LONG	.280	.280	.027
	SHORT	.142	.142	
20	LONG	.280	.280	.035
	SHORT	.142	.165	
16	LONG	.280	.280	.053
	SHORT	.142	.165	

Notes

- Performance: connector to meet performance specifications of MIL-DTL-38999, (as applicable) and in addition, connector to be back potted to prevent water ingress in unmated condition
- Contact arrangement options per MIL-STD-1560
- Dimension .795 $\pm$.005 for square flange version