

Contact Specifications

TF Series • MIL-DTL-5015 Crimp Type Connectors

Wire & Crimp Dimensions

Contact Size	Potential Drop (Millivolts)	Crimp Well Diameter	Min Crimp Well Depth	Finished Wire Diameter Sealing Range		Contact Retention Min Axial Load Pounds (Newtons)
				Min	Max	
#16	<50	.067 (1.70)	.250 (6.35)	.053 (1.35)	.103 (2.62)	25 (111.2)
#12	<42	.100 (25.4)	.250 (6.35)	.097 (2.46)	.158 (4.01)	30 (133.4)
#8	<26	.181 (4.6)	.485 (12.3)	.132 (3.4)	.255 (6.5)	50 (222.4)
#4	<23	.281 (7.1)	.485 (12.3)	.237 (6.0)	.370 (9.4)	60 (266.9)
#0	<21	.453 (11.5)	.580 (14.7)	.360 (9.1)	.550 (14.0)	75 (333.6)

Dimensions are in inches (mm) unless otherwise noted. * Contact reducing bushings are required for crimp barrel to accommodate 10, 6, and 2 AWG wire gauges. Bushings are ordered separately, see Contact Reducing Bushing table below.

Current Rating By Contact Size & Wire Size

Wire Size	Contact Size				
	#16/16S	#12	#8	#4	#0
20	7.5A				
16	13A				
14		17A			
12		23A			
10			33A		
8			46A		
6				60A	
4				80A	
2					100A
0					150A

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Torque Values for Accessory Threads

Shell Size	Recommended Torque	
	Min	Max
8	51 (5.8)	61 (6.9)
10	71 (8.0)	81 (9.2)
12	103 (11.6)	113 (12.8)
14	111 (12.5)	121 (13.7)
16	111 (12.5)	121 (13.7)
18	111 (12.5)	121 (13.7)
20	131 (14.8)	141 (15.9)
22	131 (14.8)	141 (15.9)
24	131 (14.8)	141 (15.9)

Units are in inch pounds (Newton meters).

Contact Derating Specifications

Service Rating	Max Operating Voltage at Sea Level		Nominal Distance in Inches (mm)		Mechanical Spacing Nominal	Standard Sea Level Conditions		Pressure Altitude 50,000 ft		Pressure Altitude 70,000 ft	
	AC (RMS)	DC	Airspace	Creepage		Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	200	250	.0312 (.8)	.063 (1.6)	—	1,400	1,000	500	400	325	260
A	500	700	.063 (1.6)	.125 (3.2)	.063 (1.6)	2,800	2,000	800	600	450	360
D	900	1,250	.125 (3.2)	.188 (4.8)	.125 (3.2)	3,600	2,800	900	675	500	400
E	1,250	1,750	.188 (4.8)	.250 (6.4)	.188 (4.8)	4,500	3,500	1,000	750	550	440
B	1,750	2,450	.250 (6.4)	.313 (8.0)	.250 (6.4)	5,700	4,500	1,100	825	600	480
C	3,000	4,200	.313 (8.0)	1.000 (25.4)	.313 (8.0)	8,500	7,000	1,300	975	700	560

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Torque Values For Cable Clamp Screws

Screw Size	Recommended Torque	
	Min	Max
#2-56	1.5 (.2)	2.5 (.3)
#4-40	3.5 (.4)	4.5 (.5)
#6-32	5 (.6)	7 (.8)
#8-32	7 (.8)	9 (1.0)
#10-32	9 (1.0)	11 (1.2)
#.250-20	11 (1.2)	13 (1.5)

Units are in inch pounds (Newton meters).

Rev. 1718

Standard Contacts, Sealing Plugs, & Tooling

Contact Size	Contact Style	Part Number	Wire Size (AWG)	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner (Turret)	Die Set	Locator	Insertion Tool	Extraction Tool
#16	Pin (reducing)	TFPD16	22, 24, 26	.016-.025	.236 (6.0)	TK101 (Hand Crimper)	TP102	—	—	TN1701	TX1901
	Socket (reducing)	TFSF16		(.41-.64)							
	Pin	TFPP16	16, 18, 20	.032-.051							
	Socket	TFSS16	(.81-1.29)								
	Sealing Plug	TFSP16	—	—							
#12	Pin	TFPD12	16, 18, 20	.032-.051	.236 (6.0)	TK101 (Hand Crimper)	TP102	—	—	TN1702	TX1902
	Socket	TFSF12		(.81-1.29)							
	Pin	TFPP12	12, 14, 16	.051-.081							
	Socket	TFSS12	(1.29-2.05)								
	Sealing Plug	TFSP12	—	—							
#8	Pin	TFPP08	8, 10	.102-.129	.512 (13.0)	TU2301 (Pneumatic Crimper)	—	TD2302	TL2309	TN1706	TX1903
	Socket	TFSS08		(2.59-3.26)							
	Sealing Plug	TFSP08	—	—							
#4	Pin	TFPP04	4, 6	.162-.204	.512 (13.0)	TU2301 (Pneumatic Crimper)	—	TD2304	TL2311	TN1707	TX1904
	Socket	TFSS04		(4.11-5.18)							
	Sealing Plug	TFSP04	—	—							
#0	Pin	TFPP00	0, 2	.258-.325	.630 (16.0)	TU2301 (Pneumatic Crimper)	—	TD2305	TL2313	TN1708	TX1905
	Socket	TFSS00		(6.54-8.25)							
	Sealing Plug	TFSP00	—	—							

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