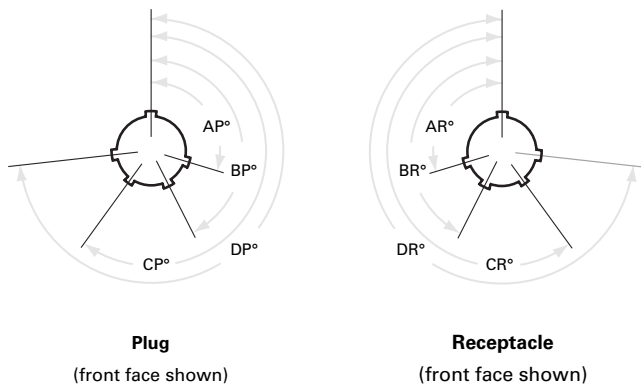


Shell Keying & Torque

TX Series • MIL-DTL-38999 Series III Style Connectors

TX Series Shell Keying

Alternate key positions should be used to avoid cross-mating of connectors with the same (or similar) insert pattern that are in close proximity to one another, such as on a high-density control panel. A plug with a given key position letter will only mate with a receptacle with the same letter. Inserts maintain a fixed position regardless of keying. For example, receptacle "N" will only mate with plug "N," and a second receptacle with an "A" keying will only mate with the "A" cable plug. In this manner, cross-mating of similar connectors by accident becomes impossible. ■



Master Key/Keyway Position

Shell Size	Keyway Arrangement	AR° or AP°	BR° or BP°	CR° or CP°	DR° or DP°	
9	N	105°	140°	215°	265°	
	A	102°	132°	248°	320°	
	B	80°	118°	230°	312°	
	C	35°	140°	205°	275°	
	D	64°	155°	234°	304°	
11	E	91°	131°	197°	240°	
	N	95°	141°	208°	236°	
13	A	113°	156°	182°	292°	
	B	90°	145°	195°	252°	
15	C	53°	156°	220°	255°	
	D	119°	146°	176°	298°	
	E	51°	141°	184°	242°	
17	N	80°	142°	196°	293°	
	A	135°	170°	200°	310°	
	B	49°	169°	200°	244°	
	19	C	66°	140°	200°	257°
		D	62°	145°	180°	280°
21	E	79°	153°	197°	272°	
	N	80°	142°	196°	293°	
	A	135°	170°	200°	310°	
	23	B	49°	169°	200°	244°
		C	66°	140°	200°	257°
25	D	62°	145°	180°	280°	
	E	79°	153°	197°	272°	

Accessory & Jam Nut Torque

Shell Size	Connector Accessory Metric Thread Dimension	Aluminum & Stainless Steel				Composite			
		Accessory Thread Torque		Jam Nut Torque		Accessory Thread Torque		Jam Nut Torque	
		Min	Max	Min	Max	Min	Max	Min	Max
9	M12 X 1-6g	70 (7.9)	75 (8.5)	30 (3.4)	36 (4.1)	30 (3.4)	36 (4.1)	30 (3.4)	36 (4.1)
11	M15 X 1-6g	80 (9.0)	85 (9.6)	40 (4.5)	46 (5.2)	40 (4.5)	46 (5.2)	40 (4.5)	46 (5.2)
13	M18 X 1-6g	100 (11.3)	110 (12.4)	55 (6.2)	60 (6.8)	55 (6.2)	60 (6.8)	55 (6.2)	60 (6.8)
15	M22 X 1-6g	140 (15.8)	150 (17.0)	70 (7.9)	75 (8.5)	70 (7.9)	75 (8.5)	70 (7.9)	75 (8.5)
17	M25 X 1-6g	160 (18.1)	170 (19.2)	80 (9.0)	85 (9.6)	80 (9.0)	85 (9.6)	80 (9.0)	85 (9.6)
19	M28 X 1-6g	210 (23.7)	230 (26.0)	90 (10.2)	95 (10.7)	90 (10.2)	95 (10.7)	90 (10.2)	95 (10.7)
21	M31 X 1-6g	260 (29.4)	280 (31.6)	100 (11.3)	110 (12.4)	100 (11.3)	110 (12.4)	100 (11.3)	110 (12.4)
23	M34 X 1-6g	280 (31.6)	300 (33.9)	110 (12.4)	120 (13.6)	110 (12.4)	120 (13.6)	110 (12.4)	120 (13.6)
25	M37 X 1-6g	300 (33.9)	325 (36.7)	120 (13.6)	130 (14.7)	120 (13.6)	130 (14.7)	120 (13.6)	130 (14.7)

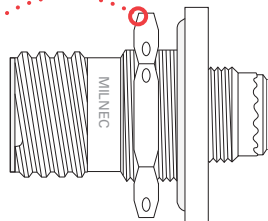
Units are in inch pounds (Newton meters).

Cable Clamp Screw Torque

Screw Size	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).

Jam Nut Hex Wrenches
When working with composite jam nut connectors, special hex wrenches are recommended to avoid damaging the jam nut. Contact an authorized distributor for suggested tooling and assembly instructions.



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