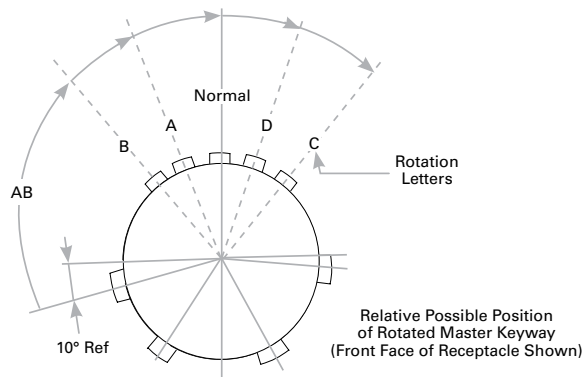


Shell Keying & Torque

DS Series • MIL-DTL-38999 Series II Style Connectors

DS 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	Normal	A	B	C	D
8	100°	82°	--	--	118°
10	100°	86°	72°	128°	114°
12	100°	80°	68°	132°	120°
14	100°	79°	66°	134°	121°
16	100°	82°	70°	130°	118°
18	100°	82°	70°	130°	118°
20	100°	82°	70°	130°	118°
22	100°	85°	74°	126°	115°
24	100°	85°	74°	126°	115°

Cable Clamp Screw Torque

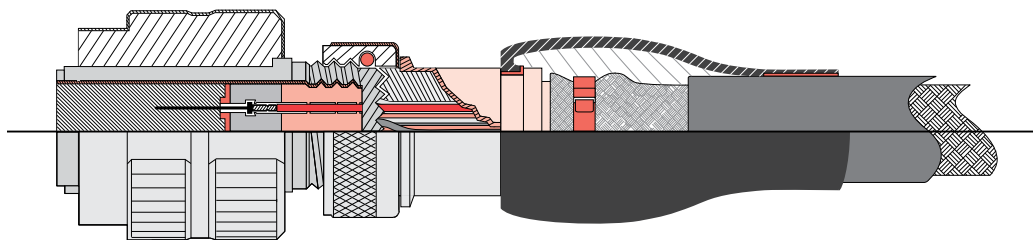
Screw Size	Min	Max
#2-56	1.5 (.2)	2.5 (.3)
#4-40	3.5 (.4)	4.5 (.5)
#6-32	5 (.6)	7 (.8)
#8-32	7 (.8)	9 (1.0)
#10-32	9 (1.0)	11 (1.2)
#250-20	11 (1.2)	13 (1.5)

Units are in inch pounds (Newton meters).

Accessory & Jam Nut Torque

Shell Size	Connector Accessory Metric Thread Dimension	Aluminum & Stainless Steel			
		Accessory Thread Torque		Jam Nut Torque	
		Min	Max	Min	Max
8	.4375-28 UNEF	70 (7.9)	75 (8.5)	30 (3.4)	36 (4.1)
10	.5625-24 UNEF	80 (9.0)	85 (9.6)	40 (4.5)	46 (5.2)
12	.6875-24 UNEF	100 (11.3)	110 (12.4)	55 (6.2)	60 (6.8)
14	.8125-20 UNEF	140 (15.8)	150 (17.0)	70 (7.9)	75 (8.5)
16	.9375-20 UNEF	160 (18.1)	170 (19.2)	80 (9.0)	85 (9.6)
18	1.0625-18 UNEF	210 (23.7)	230 (26.0)	90 (10.2)	95 (10.7)
20	1.1875-18 UNEF	260 (29.4)	280 (31.6)	100 (11.3)	110 (12.4)
22	1.3125-18 UNEF	280 (31.6)	300 (33.9)	110 (12.4)	120 (13.6)
24	1.4375-18 UNEF	300 (33.9)	325 (36.7)	120 (13.6)	130 (14.7)

Units are in inch pounds (Newton meters).



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