

Contact Specifications

QS Series • MIL-DTL-22992 QWLD Type Connectors

Crimp Contacts & Tooling*

Pin/Socket	Part Number	Mating End Size	Wire Barrel Size	Allowable Wire Size	Test Current Amps	Required Wire Adapter Sleeve	Crimping Tool	Positioner	Die	Insertion Tool	Extraction Tool
Pin	QSPP16	16 Long	16	16	13	-	TK101A	TP291	-	TN345	TX250 Kit
Socket	QSSS16			18	10	-					
				20	7.5	-					
				22 [†]	5	QSBS-966					
Pin	QSPP12	12	12	12	23	-	TU2301	TP2312	TD2304	TN654 [†]	TX704 [†]
Socket	QSSS12			14	17	-					
Pin	QSPP08	8	8	8	46	-	TU2301	TP2312	TD2304	TN654 [†]	TX742 [†]
Socket	QSSS08			10 [†]	33	QSBS-961					
Pin	QSPP04	4	4	4	80	-	TU2301	TP2312	TD2304	TN654 [†]	TX705 [†]
Socket	QSSS04			6 [†]	60	QSBS-962					
Pin	QSPP00	0	0	0	150	-	TU2301	TL2313	TD2305	TN655 [†]	TX743 [†]
Socket	QSSS00			2 [†]	100	QSBS-967					

*Tooling not applicable for solder contacts. [†]Tool used with Arbor press 11-7364. [‡]When using required wire adapter sleeve.

Contact Arrangement Service Rating & Altitude Voltage Derating

MS Service Rating	Operating Voltage at Sea Level		Nominal Distance in Inches (mm)		Mechanical Spacing Nom.	Standard Sea Level Conditions		Pressure Altitude 50,000 Ft		Pressure Altitude 70,000 Ft	
	DC	AC (RMS)	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.	250	200	.0313 (.79)	.0625 (1.59)	-	1,400	1,000	550	400	325	260
A	700	500	.0625 (1.59)	.1250 (3.18)	.0625 (1.59)	2,800	2,000	800	600	450	360
D	1,250	900	.1250 (3.18)	.1875 (4.76)	.1250 (3.18)	3,600	2,800	900	675	500	400
E	1,750	1,250	.1875 (4.76)	.2500 (6.35)	.1875 (4.76)	4,500	3,500	1,000	750	550	440
B	2,450	1,750	.2500 (6.35)	.3125 (7.94)	.2500 (6.35)	5,700	4,500	1,100	825	600	480
C	4,200	3,000	.3125 (7.94)	1.0000 (25.4)	.3125 (7.94)	8,500	7,000	1,300	975	700	560

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. Dimensions are in inches (mm) unless otherwise noted.

Current Rating By Contact Size & Wire Size

Wire Size	Contact Size				
	16	12	8	4	0
22	5	-	-	-	-
20	7.5	-	-	-	-
18	10	-	-	-	-
16	13	-	-	-	-
12	-	17	-	-	-
10	-	23	33	-	-
8	-	-	46	-	-
6	-	-	-	60	-
4	-	-	-	80	-
2	-	-	-	-	100
1	-	-	-	-	125
0	-	-	-	-	150

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Coupling Torque Values For Main Joint Sealing

Thread Size	Torque Inch Pounds (Newton Meters)		Torque Foot Pounds (Newton Meters)	
	Min	Max	Min	Max
0.875	140 (15.8)	150 (17.0)	11 (1.2)	12 (1.4)
1.000	160 (18.1)	170 (19.2)	13 (1.5)	14 (1.6)
1.125	210 (23.7)	230 (26.0)	18 (2.0)	19 (2.2)
1.250	260 (29.4)	280 (31.6)	21 (2.4)	23 (2.6)
1.375	300 (33.9)	325 (36.7)	24 (2.7)	25 (2.8)
1.500	325 (36.7)	350 (39.5)	28 (3.2)	30 (3.4)
1.750	375 (42.4)	400 (45.2)	30 (3.4)	32 (3.6)
2.000	425 (48.0)	450 (50.8)	36 (4.1)	38 (4.3)
2.250	500 (56.5)	525 (59.3)	42 (4.8)	44 (5.0)
2.500	575 (65.0)	600 (68.0)	48 (5.4)	50 (5.7)
2.750	650 (73.4)	700 (79.1)	55 (6.2)	60 (6.9)
3.000	750 (84.7)	800 (90.4)	60 (6.9)	65 (7.3)

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