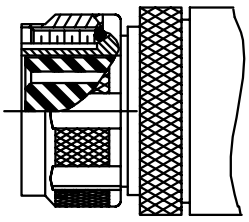
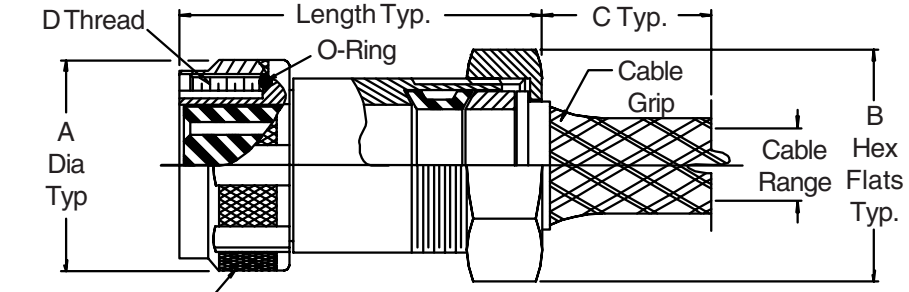
257-165 Stainless Steel Plug Assembly and 257-166 Stainless Steel Receptacle Assembly

257-165-14S-5 P X M 08

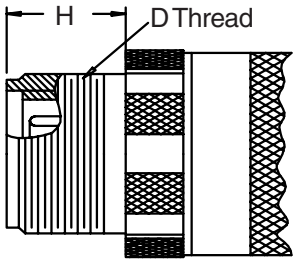
- Basic Part Number: 257-165 Plug Assembly; 257-166 Receptacle Assy
- Shell Size
- Insert Arrangement Dash No.
- Contact Style: P = Pin, S = Socket
- Alternate Insert Position (See Below), N for Normal
- M = Molding Adapter; N = No Adapter, Connector Only; Omit for Standard
- Optional Entry (Table II)



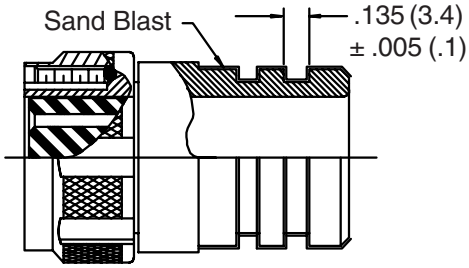
257-165 Plug Style II



257-165 Plug Style I

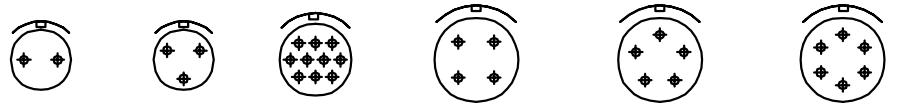


257-166 Receptacle

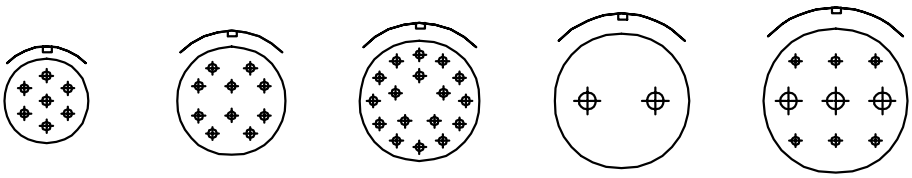


Molding Adapter Option

Insert Arrangements



Shell Size - Insert Arr. Dash No.	10SL-4	10SL-3	12-10	14S-2	14S-5	14S-6
Contact Size & Quantity	2 - #16	3 - #16	10 - #20	4 - #16	5 - #16	6 - #16
MS Service Rating	A	A	Inst.	Inst.	Inst.	Inst.
Available Alternate Insert Positions (Degrees rotation clockwise looking into the front of the pin insert)	n/a	n/a	n/a	X=120°, Y=240°	X=110°	n/a



Shell Size - Insert Arr. Dash No.	14S-7	18-1	20-29	22-1	24-11
Contact Size & Quantity	7 - #16	10 - #16	17 - #16	2 - #16	6 - #16, 3 - #18
MS Service Rating	Inst.	4 A, 6 Inst.	A	D	A
Available Alternate Insert Positions (Degrees rotation clockwise looking into the front of the pin insert)	W=90°, X=180°, Y=270°	W=70°, X=145°, Y=215°, Z=290°	W=80°, Z=280°	n/a	W=35°, X=110°, Y=250°, Z=325°

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257-165 Stainless Steel Plug Assembly
257-166 Stainless Steel Receptacle Assembly

TABLE I

Dash No.	Config. Style	A Max	B Flats	D Thread Class 2A UNEF	H +.031 -.000	H (.8) (.0)	Length Max
10SL	I	1.031 (26.2)	1.00 (25.4)	.625 - 24	.562	(14.3)	3.00 (76.2)
12	II	1.125 (28.6)	1.35 (34.3)	.750 - 20	.562	(14.3)	3.00 (76.2)
14S	I	1.219 (31.0)	1.00 (25.4)	.875 - 20	.562	(14.3)	3.00 (76.2)
18	I	1.406 (35.7)	1.12 (28.4)	1.125 - 18	.724	(18.4)	3.50 (88.9)
20	I	1.531 (38.9)	1.50 (38.1)	1.250 - 18	.724	(18.4)	3.50 (88.9)
22	I	1.645 (41.8)	1.50 (38.1)	1.375 - 18	.724	(18.4)	3.50 (88.9)
24	I	1.781 (45.2)	1.50 (38.1)	1.500 - 18	.724	(18.4)	3.50 (88.9)

TABLE I (Continued)

Dash No.	Cable Range Min		Cable Range Max		Max Dash No. Style I
10SL	.210	(5.3)	.312	(7.9)	04
12	.500	(12.7)	.625	(15.9)	08
14S	.210	(5.3)	.312	(7.9)	10
18	.310	(7.9)	.438	(11.1)	12
20	.530	(13.5)	.750	(19.1)	14
22	.530	(13.5)	.750	(19.1)	14
24	.530	(13.5)	.750	(19.1)	16

TABLE II (Optional Entries)

Dash No.	Cable Range Min		Cable Range Max		C Ref.
03	.180	(4.6)	.210	(5.3)	5.12 (130.0)
04	.210	(5.3)	.312	(7.9)	5.75 (146.1)
06	.310	(7.9)	.438	(11.1)	7.00 (177.8)
08	.438	(11.1)	.500	(12.7)	7.12 (180.8)
10	.500	(12.7)	.625	(15.9)	7.37 (187.2)
12	.530	(13.5)	.750	(19.1)	9.00 (228.6)
14	.750	(19.1)	.875	(22.2)	8.00 (203.2)
16	.875	(22.2)	1.000	(25.4)	9.00 (228.6)

TABLE III

Barrel and Rear Accy Hdwr.	Passivated Stainless Steel
Coupling Nut	Nickel/Aluminum/Bronze
Insulator, O-Ring, Grommet	Nitrile/Neoprene
Contacts	Gold Plated Copper Alloy With Solder Pots
Contact Current Rating	#20-5 Amps #16-10 Amps #12-17 Amps #8-35 Amps
Rated Operating Voltage	Service Rating INST - 250 VDC Service Rating A - 700 VDC
Dielectric Withstanding Voltage (Hi-Pot)	Service Rating INST - 1000 VRMS Service Rating A - 2000 VRMS
Insulation Resistance	5000 Megohms minimum at 500 VDC and +25°C
Temperature Range	-55°C to +125°C

1. Metric dimensions (mm) are indicated in parentheses.
2. **Electrical safety limits must be established by the user. Peak voltages, switching surges, etc., should be used to determine the safety of application.**