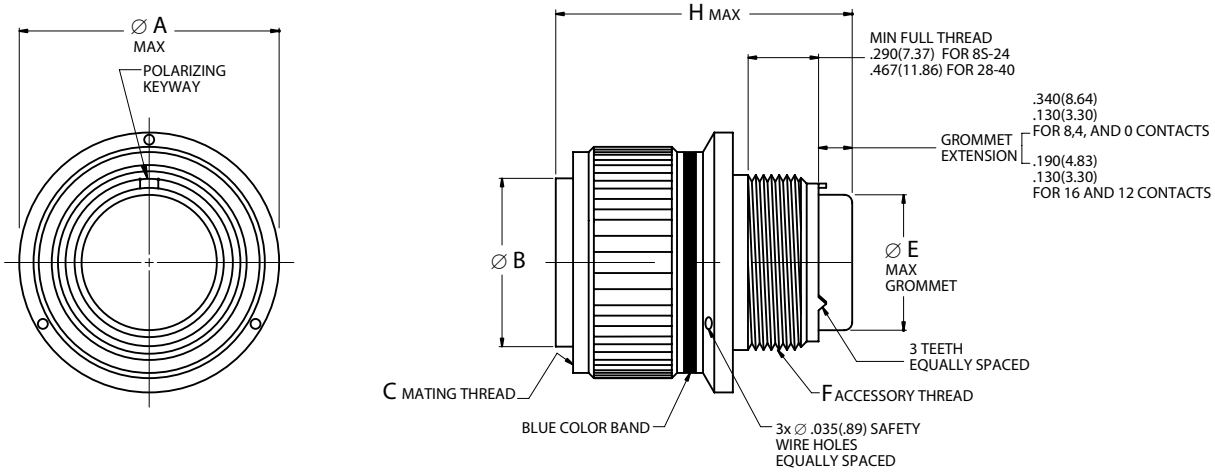
Threaded Coupling, Crimp Removable, Rear Release



Shell Size	∅ A Maximum inch	∅ A Maximum mm	∅ B ±.005 inch	∅ B ±.13 mm	C Mating Thread Class 2B	∅ E Maximum inch	∅ E Maximum mm	F Accessory Thread Class 2A	H MAX 16 & 12 Contacts inch	H MAX 16 & 12 Contacts mm	H MAX 8, 4 & 0 Contacts inch	H MAX 8, 4 & 0 Contacts mm
8S	.844	21.44	.360	9.14	1/2-28 UNEF	.305	7.75	1/2-20UNF	2.031	51.59	–	–
10S	.969	24.61	.435	11.05	5/8-24 UNEF	.405	10.29	5/8-24UNEF	2.031	51.59	–	–
10SL	.969	24.61	.443*	11.25*	5/8-24 UNEF	.405	10.29	5/8-24UNEF	2.031	51.59	–	–
12	1.062	26.97	.550	13.97	3/4-20 UNEF	.549	13.94	3/4-20UNEF	2.125	53.98	–	–
12S	1.062	26.97	.550	13.97	3/4-20 UNEF	.549	13.94	3/4-20UNEF	2.031	51.59	–	–
14	1.156	29.36	.670	17.02	7/8-20 UNEF	.665	16.89	7/8-20UNEF	2.125	53.98	–	–
14S	1.156	29.36	.670	17.02	7/8-20 UNEF	.665	16.89	7/8-20UNEF	2.031	51.59	–	–
16	1.250	31.75	.800	20.32	1-20 UNEF	.790	20.07	1-20UNEF	2.125	53.98	2.500	63.50
16S	1.250	31.75	.800	20.32	1-20 UNEF	.790	20.07	1-20UNEF	2.031	51.59	–	–
18	1.344	34.14	.925	23.50	1 1/8-18 UNEF	.869	22.07	1-1/16-18UNEF	2.125	53.98	2.500	63.50
20	1.469	37.31	1.045	26.54	1 1/4-18 UNEF	.994	25.25	1-3/16-18UNEF	2.125	53.98	2.500	63.50
22	1.594	40.49	1.170	29.72	1 3/8-18 UNEF	1.119	28.42	1-5/16-18UNEF	2.125	53.98	2.500	63.50
24	1.719	43.66	1.295	32.89	1 1/2-18 UNEF	1.244	31.60	1-7/16-18UNEF	2.125	53.98	2.500	63.50
28	1.969	50.01	1.515	38.48	1 3/4-18 UNS	1.465	37.21	1-3/4-18UNS	2.125	53.98	2.500	63.50
32	2.219	56.36	1.765	44.83	2-18 UNS	1.715	43.56	2-18UNS	2.125	53.98	2.500	63.50
36	2.469	62.71	1.975	50.17	2 1/4-16 UN	1.930	49.02	2-1/4-16UN	2.125	53.98	2.500	63.50
40	2.719	69.06	2.225	56.52	2 1/2-16 UN	2.145	54.48	2-1/2-16UN	2.125	53.98	2.500	63.50

* Tolerance for this dimension is ± .003 (.08)

Features and Application

The threaded coupling, environmentally sealed MIL-DTL-5015 Series III connector with rear-removable crimp contacts was developed to replace the earlier solder type. This redesigned connector is intermateable and intermountable with the MIL-DTL-5015 Series I solder type (MS310*) as well as the MIL-DTL- 83723 Series II (USAF) crimp type and MIL-DTL-5015 Series II Front Release (MS340*). Thus, it provides for a minimum effort and high economy upgrade for existing applications.

These connectors are recommended for a wide range of applications, from commercial/industrial and mass transportation systems to the most stringent high reliability defense and aerospace requirements.

This family of connectors is offered in four receptacle mounting configurations. They include two square flange receptacles, both wall and box mounting; cable connecting receptacles; and jam nut receptacles which incorporate "O" ring seals, designed for rear panel "D" hole mounting.

Two plug styles are offered - standard plug with free rotating coupling nut with safety wire holes, and a self-locking, anti-decoupling plug, which eliminates the need for safety wiring.

Eighty-eight insert arrangements per MIL-STD-1651 are tooled and qualified to MIL-DTL-5015, utilizing 1 to 85 contacts. Contacts come in sizes 16, 12, 8, 4 and 0, terminating wire sizes from 20 gauge to 0 gauge.

These connectors are available in wide range of shell materials and finishes. Aluminum shells are offered in both electroless nickel and olive drab cadmium to both commercial and MS callouts. Other finishes such as anodic and zinc cobalt are available upon request to commercial callouts only. In addition, we offer passivated stainless steel shells with both standard and firewall-rated inserts, and carbon steel shells with firewall inserts.

Lockwiring Eliminated – Self-locking plug eliminates the need for lockwiring.

Universal I/R Tool – A single, expendable plastic tool is used for both insertion and removal of contacts.

Insert Polarization – Alternate insert clocking positions aid in mating of adjacent connectors having identical insert arrangement.

Closed-Entry Socket Insert – Hard dielectric socket face has lead-in chamfers for positive alignment of pins (even partially bent within pre-established limits) with sockets.

Interfacial Pin Insert Seal – Raised moisture barriers around each pin, which mate into lead-in chamfers of hard face socket insert, provide individual contact sealing. Interfacial seal is never touched by service tools.

Elastomer Wire Sealing Grommet – Sealing over a wide range of wire diameters is assured by a triple wire seal in each cavity at the rear of the connector.

Superior Contact Stability – Rear release crimp contact system features a stamped beryllium-copper retaining clip captivated by molded-in shoulders of each contact cavity in the insulator. A rear-inserted M81969 plastic tool expands the tines beyond the shoulder, releasing the contact.