

ARINC 801 TECHNOLOGY

High Speed Fiber Optics Single and Multimode



- ▶ **Low loss, low back reflection**
 - ▶ Return loss -50 dB singlemode
 - ▶ Low insertion loss 0.3 dB max mated pair
- ▶ **General use design (no strain relief backshell needed)**
- ▶ **Optical disconnect style available**
- ▶ **PC, UPC or APC ferrule endface**
- ▶ **Genderless design (same contact on both sides of the connector)**
- ▶ **Compatible with multimode and singlemode fiber**
- ▶ **Standard 1.25 mm ferrule and sleeve**
- ▶ **Cable termination identical to LC connector process**
- ▶ **Easy cleaning access to the contact through removable alignment sleeve retainer**
- ▶ **Standard MIL-DTL-38999 and ARINC 600 Size 16 insertion/removal tool**

SINGLE TERMINUS DESIGN FOR ALL CONNECTOR FORMATS

The ARINC 801 fiber optic terminus is the next generation of butt-joint interconnect technology allowing for higher density multichannel connectors to be achieved. With its standard 1.25 mm ferrule and sleeve, the ARINC 801 terminus is designed for both multimode and singlemode applications and is compatible with standard LC termination processes. The terminus is available both as a pull-proof design and a general use design for tight jacketed cable.

For the pull-proof design, the cable jacket is crimped on an external body and a floating mechanism avoids any loss of performance when pulling on the cable. This feature allows for the use of the connector without a backshell.

Standard connector formats include MIL-DTL-38999 type, MIL-DTL-83527 type, ARINC 600 and ARINC 781.

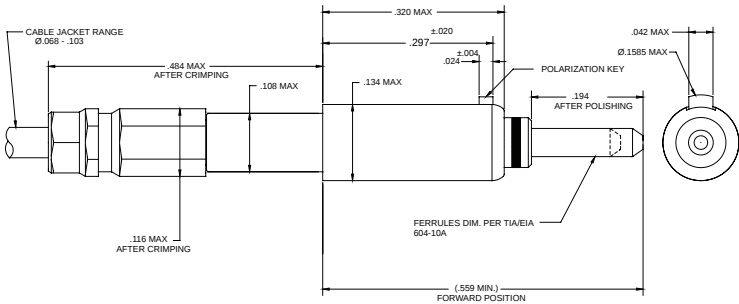
SIZE 16 ARINC 801 TERMINUS

Specifications & Insert Arrangements

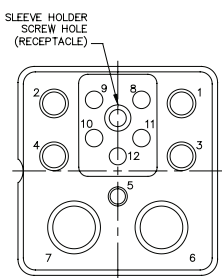
► SIZE 16 ARINC 801 CONTACT



PART NUMBER	MODE	STYLE	POLISH
238500-8000	Multi	Pull Proof Loose Jacket	PC
238500-8001	Multi	Tight Jacket	PC
238500-8002	Single	Pull Proof Loose Jacket	PC
238500-8003	Single	Pull Proof Loose Jacket	APC
238500-8004	Single	Tight Jacket	PC
238500-8005	Single	Tight Jacket	APC

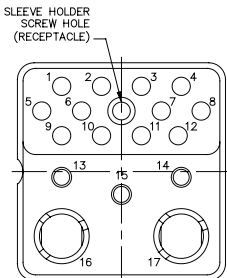


► ARINC 600 INSERT ARRANGEMENTS



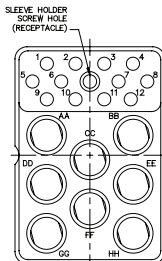
12F5C2

QTY	SIZE	CONTACT	CAVITY I.D.
4	12	Electrical	1 to 4
1	16	Electrical	5
2	5	Quadrax	6 to 7
5	16	Optical Termini	8 to 12



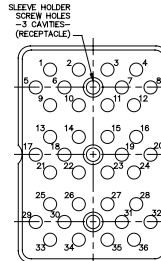
17F12Q2

QTY	SIZE	CONTACT	CAVITY I.D.
12	16	Optical Termini	1 to 12
3	16	Electrical	13 to 15
2	8	Quadrax	16 to 17



20F12T8/20F12Q8

QTY	SIZE	CONTACT	CAVITY I.D.
12	16	Optical Termini	1 to 12
8	8	Twinax/Quadrax	AA to HH



36F36

QTY	SIZE	CONTACT	CAVITY I.D.
36	16	Optical Termini	1 to 36

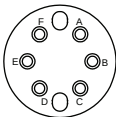
► MIL-DTL-38999 INSERT ARRANGEMENTS



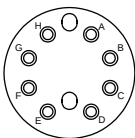
SIZE 11
11-02



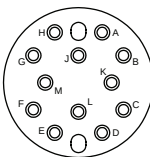
SIZE 13
13-04



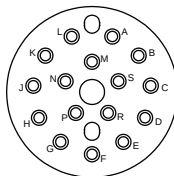
SIZE 15
15-06



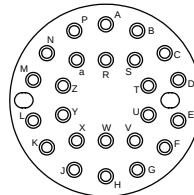
SIZE 17
17-08



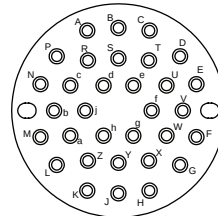
SIZE 19
19-12



SIZE 21
21-16



SIZE 23
23-24

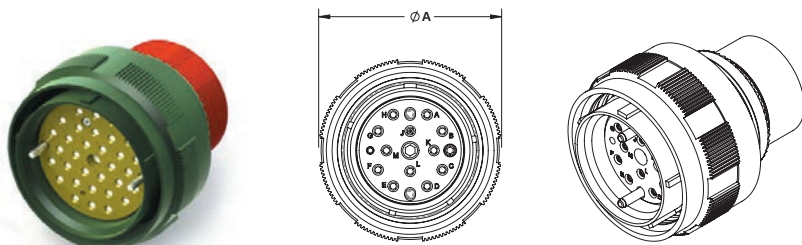


SIZE 25
25-32

CONNECTOR SHELLS

Specifications & Dimensions

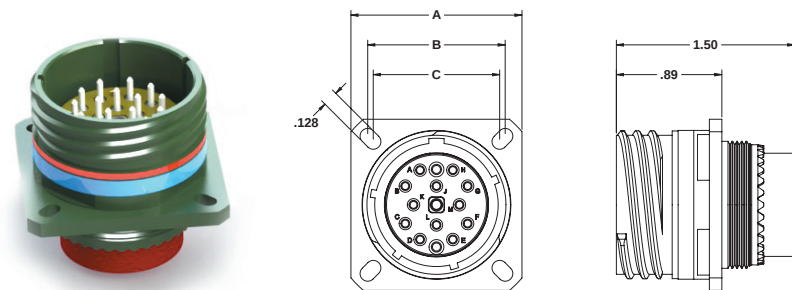
► MIL-DTL-38999 PLUG



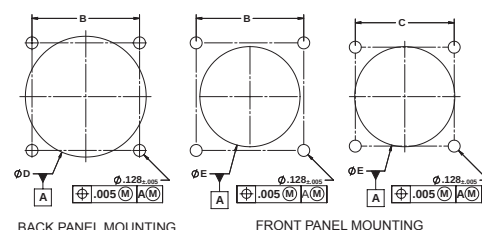
PART NUMBER* Olive Drab Cadmium	PART NUMBER* Electroless Nickel	POLARIZATION	SIZE	CONTACTS	INSERT	A MAX (inches)
236400-2064-X	236400-2030-X	N, A, B, C, D, E	11	2	11-02	0.984
236400-2047-X	236400-2000-X	N, A, B, C, D, E	13	4	13-04	1.157
236400-2033-X	236400-2008-X	N, A, B, C, D, E	15	6	15-06	1.280
236400-2017-X	236400-2046-X	N, A, B, C, D, E	17	8	17-08	1.406
236400-2048-X	236400-2018-X	N, A, B, C, D, E	19	12	19-12	1.516
236400-2062-X	236400-2031-X	N, A, B, C, D, E	21	16	21-16	1.642
236400-2049-X	236400-2045-X	N, A, B, C, D, E	23	24	23-24	1.768
236400-2063-X	236400-2035-X	N, A, B, C, D, E	25	32	25-32	1.890

*-X denotes polarization. Ex: 236400-2064-C for Plug, Size 11, O.D. Cadmium Plated, C Polarization

► MIL-DTL-38999 FLANGE MOUNT RECEPTACLE



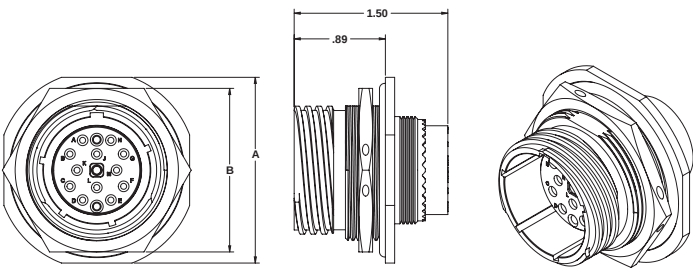
PANEL CUTOUTS



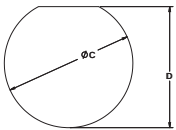
PART NUMBER* Olive Drab Cadmium	PART NUMBER* Electroless Nickel	POLARIZATION	SIZE	CONTACTS	INSERT	A (inches)	B (inches)	C (inches)	D MIN (inches)	E MIN (inches)
236400-3062-X	236400-3049-X	N, A, B, C, D, E	11	2	11-02	1.031	0.812	0.719	0.796	0.625
236400-3063-X	236400-3000-X	N, A, B, C, D, E	13	4	13-04	1.126	0.906	0.812	0.922	0.750
236400-3038-X	236400-3013-X	N, A, B, C, D, E	15	6	15-06	1.220	0.969	0.906	1.047	0.906
236400-3064-X	236400-3052-X	N, A, B, C, D, E	17	8	17-08	1.311	1.062	0.969	1.219	1.016
236400-3079-X	236400-3022-X	N, A, B, C, D, E	19	12	19-12	1.437	1.156	1.062	1.297	1.141
236400-3080-X	236400-3026-X	N, A, B, C, D, E	21	16	21-16	1.563	1.250	1.156	1.422	1.266
236400-3066-X	236400-3023-X	N, A, B, C, D, E	23	24	23-24	1.689	1.375	1.250	1.547	1.375
236400-3067-X	236400-3053-X	N, A, B, C, D, E	25	32	25-32	1.811	1.500	1.375	1.672	1.484

*-X denotes polarization. Ex: 236400-3062-N for Flange Mount Receptacle, Size 11, O.D. Cadmium Plated, N Polarization

MIL-DTL-38999 JAM NUT RECEPTACLE



PANEL CUTOUTS



PART NUMBER* Olive Drab Cadmium	PART NUMBER* Electroless Nickel	POLARIZATION	SIZE	CONTACTS	INSERT	A (inches)	B MAX (inches)	C (+0.01 -0.00) (inches)	D MIN (+0.00 -0.003) (inches)
236400-3081-X	236400-3025-X	N, A, B, C, D, E	11	2	11-02	1.031	0.812	0.719	0.796
236400-3082-X	236400-3032-X	N, A, B, C, D, E	13	4	13-04	1.126	0.906	0.812	0.922
236400-3083-X	236400-3051-X	N, A, B, C, D, E	15	6	15-06	1.220	0.969	0.906	1.047
236400-3084-X	236400-3011-X	N, A, B, C, D, E	17	8	17-08	1.311	1.062	0.969	1.219
236400-3065-X	236400-3034-X	N, A, B, C, D, E	19	12	19-12	1.437	1.156	1.062	1.297
236400-3085-X	236400-3006-X	N, A, B, C, D, E	21	16	21-16	1.563	1.250	1.156	1.422
236400-3086-X	236400-3037-X	N, A, B, C, D, E	23	24	23-24	1.689	1.375	1.250	1.547
236400-3087-X	236400-3040-X	N, A, B, C, D, E	25	32	25-32	1.811	1.500	1.375	1.672

*-X denotes polarization. Ex: 236400-3081-N for Jam Nut Receptacle, Size 11, O.D. Cadmium Plated, N Polarization

ARINC 600 SHELL SIZE 2

Please consult factory for ordering information

