

VITA 87.0 Fiber optic connector, MIL-DTL-38999 Series III Style
183-033

PRIZM® MT and MT Elite®



Glenair SOSA-Compliant VITA 87 is a High-Density Mil-Aero Grade MT Fiber Optic Connector. Utilizes the tried and true MIL-DTL-38999 Series III connector packaging for use with Standard and Prizm MT Ferrules. Available in 3 shell sizes, starting as small as a Shell Size 11 with 1 MT to a Shell Size 15 with 4 MT's.

HOW TO ORDER						
Sample Part Number	183-033	ME	G6	-15-4	N	1
Basic Part Number	VITA 87.0 Fiber Optic Connector					
Material/Finish Code	See Material and Finish table					
Connector Style	G6 = Plug, with EMI/RFI/Ground Spring H7 = Receptacle, Wall Mount with Round Holes (Standard) S7 = Receptacle, Wall Mount with Slotted Holes CM = Receptacle, Wall Mount with Metric Clinch Nuts CS = Receptacle, Wall Mount with Standard Clinch Nuts HM = Receptacle, Wall Mount with Metric Helicoils HS = Receptacle, Wall Mount with Standard Helicoils 05 = Receptacle, In-Line 08 = Receptacle, Jam Nut Mount					
Shell Size / Insert Arrangement	11-1, 13-2, 15-4					
Alternate Key Position	A, B, C, D, E, N = Normal U = Universal (per MIL-DTL-38999)					
Insert Cavity Clocking Orientation	1 = Standard position 2 = Cavity position rotated 45° to master key/keyway 3 = Cavity position rotated 90° to master key/keyway					

MATERIAL AND FINISH		
Code	Material	Finish Description
ME	Aluminum Alloy	Electroless Nickel
MT		Nickel-PTFE, Grey
NF		Cadmium, Olive Drab
TZ		Tin-Zinc, Bronze/Gold
ZR	Composite	Zinc-Nickel, Black
XM		Electroless Nickel
XW		Cadmium, Olive Drab
Z1	Stainless Steel	Passivate
ZL		Electro-Deposited Nickel

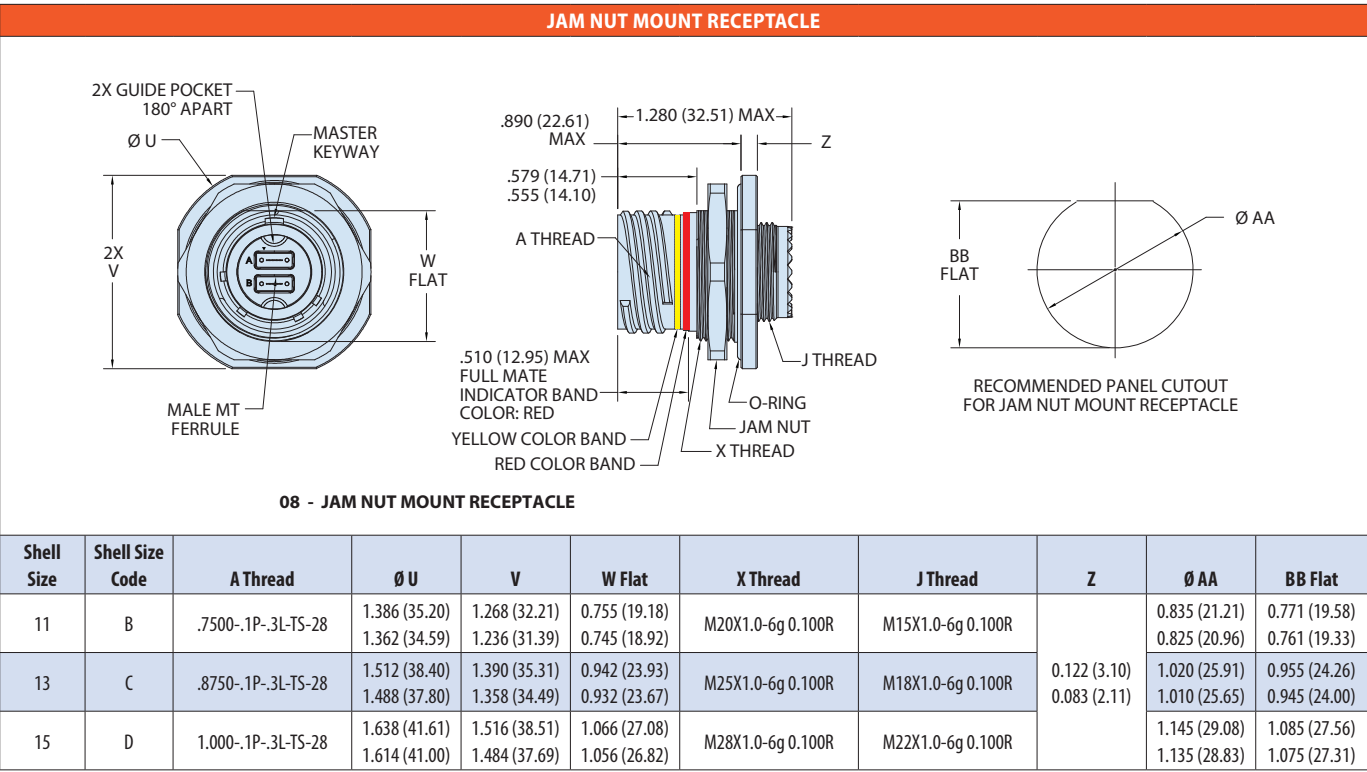
NOTES

- Per ANSI/VITA 87.0-2024: Pin (male) ferrule kits shall be used in the receptacle connectors. Socket (female) ferrule kits shall be used in the plug connectors.
- Cavity id marking for plug connector (pin insert) is opposite receptacle marking. Triangle above cavity indicates channel 1 within MT Ferrule. Number above cavity indicates sequence and location of cavity.

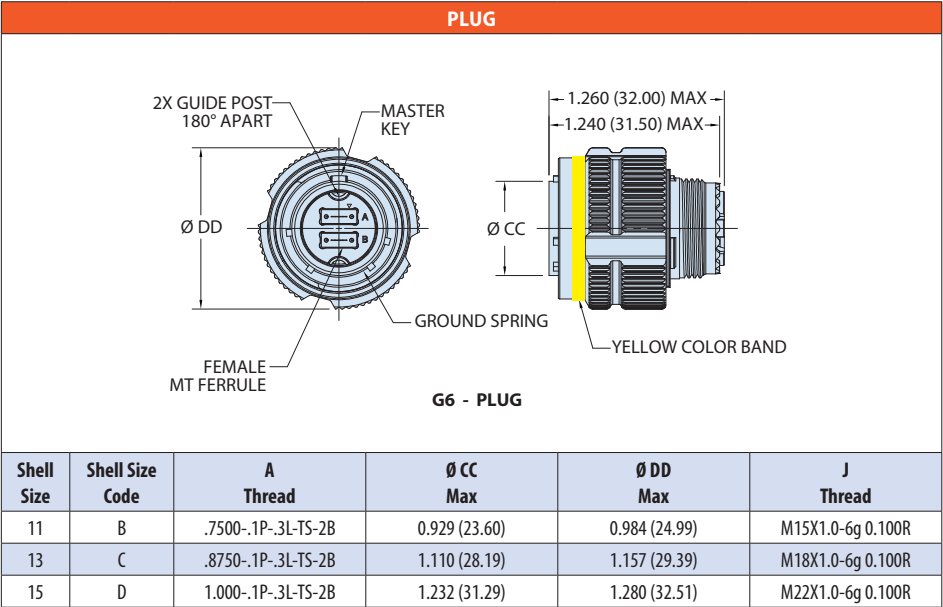
INSERT CAVITY CLOCKING ORIENTATION			
Code	Shell Size-Arrangement 11-1	Shell Size-Arrangement 13-2	Shell Size-Arrangement 15-4
1			
2			
3			

Mating face of receptacle (socket insert) is shown. (Plug insert rotates symmetrically in opposite direction.)

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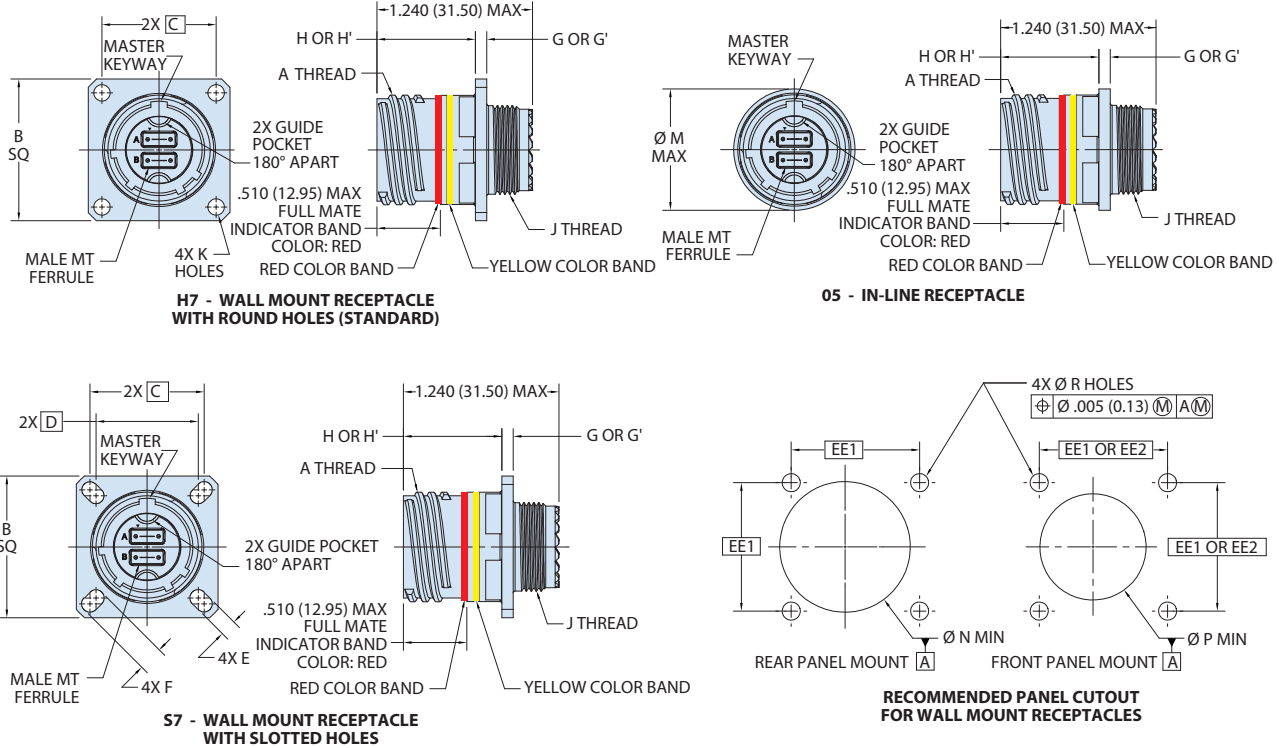
Panel Thickness Per MIL-DTL-38999/24: .062" Min - .126" Max



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WALL MOUNT AND IN-LINE RECEPTACLE

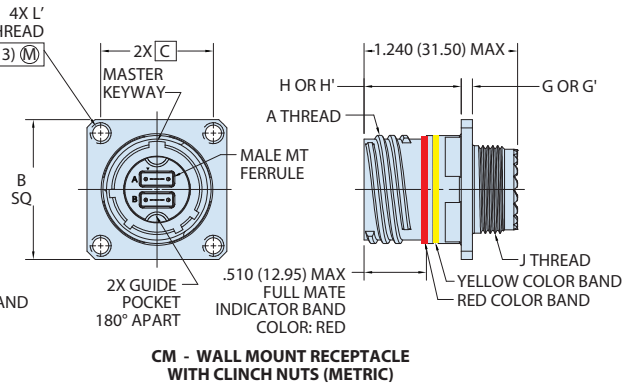
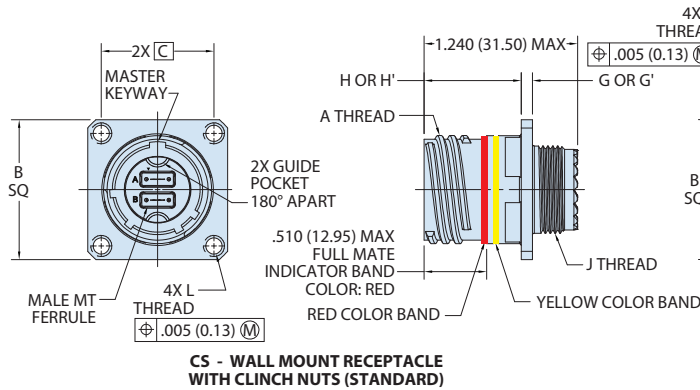
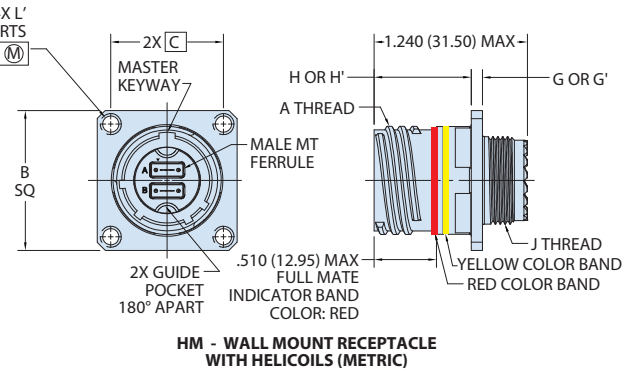
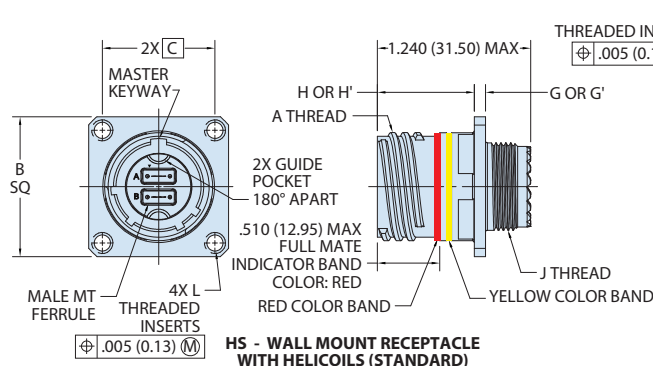


Shell Size	Shell Size Code	A Thread	B Sq	B' Sq	C Bsc	D Bsc	E	F	G	G'	H	H'	J Thread	Ø K	L Thread	L' Thread	Ø M Max	Ø N Min	Ø P Min	Ø R Holes	EE1 Bsc	EE2 Bsc
11	B	.7500-1P-3L-TS-2A	1.043 (26.49)	1.187 (30.15)	0.812 (20.62)	0.719 (18.26)							M15X1.0-6g 0.100R				0.984 (24.99)	0.796 (20.22)	0.625 (15.88)		0.812 (20.62)	0.719 (18.26)
13	C	.8750-1P-3L-TS-2A	1.138 (28.91)	1.281 (32.54)	0.906 (23.01)	0.812 (20.62)	0.136 (3.45)	0.186 (4.72)	0.098 (2.49)	0.144 (3.66)	0.820 (20.83)	0.823 (20.90)	M18X1.0-6g 0.100R	0.136 (3.45)	.112-40 UNC-3B	M3 X 0.5	1.157 (29.39)	0.922 (23.42)	0.750 (19.05)	0.133 (3.38)	0.906 (23.01)	0.812 (20.62)
15	D	1.000-1P-3L-TS-2A	1.232 (31.29)	1.344 (34.14)	0.969 (24.61)	0.906 (23.01)		0.181 (4.60)					M22X1.0-6g 0.100R				1.280 (32.51)	1.047 (26.59)	0.906 (23.01)		0.969 (24.61)	0.906 (23.01)

Max Panel Thickness Per MIL-DTL-38999/20: .228 Inches. Composite connectors use dimensions G' and H'. For wall mount receptacles with clinch nuts or helicoils installed, see L and L' for thread size in Table V. Helicoil connector styles use dimension G' for flange thickness

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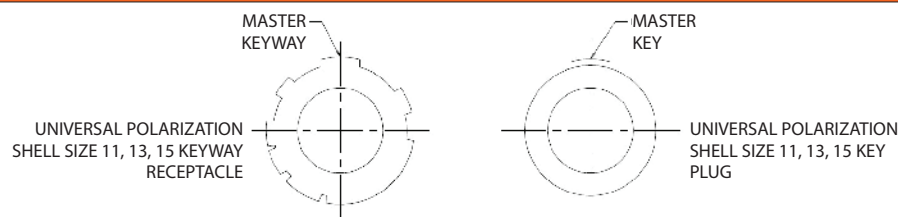
WALL MOUNT AND IN-LINE RECEPTACLE



Shell Size	Shell Size Code	A Thread	B Sq	B' Sq	C Bsc	D Bsc	E	F	G	G'	H	H'	J Thread	Ø K	L Thread	L' Thread	Ø M Max	Ø N Min	Ø P Min	Ø R Holes	EE1 Bsc	EE2 Bsc
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Helicoil connector styles use dimension G' for flange thickness

UNIVERSAL POLARIZATION CONFIGURATIONS



Universal connectors are intended for use in testing facilities only and should be highly evaluated before consideration in another environment.

VITA 87.0 Fiber optic connector, MIL-DTL-38999 Series III Style
181-183 MT Ferrule Kit

HOW TO ORDER				
Sample Part Number	181-183	-126	-12	P
Basic Part Number	MT Ferrule Kit			
Dash Number	See table I			
Number of Fibers	See table I			
Ferrule Style	P = Male Ferrule Kit S = Female Ferrule Kit			

FEMALE FERRULE KIT

MT FERRULE

BOOT

FEMALE PIN SPACER

SPRING

MALE FERRULE KIT

MALE PIN CLAMP
ID TRIANGLE(S);
2 FOR SINGLE MODE
1 FOR MULTI-MODE

METRIC

MATERIAL/FINISH

- Ferrule: Polyphenylene Sulfide Resin
- Pin Clamp, Male: Stainless Steel
- Female Pin Spacer: PBT
- Boot: TPE
- Spring: Stainless Steel
- Dust Cap: ABS (Not Shown)

TABLE I							
Dash No.	Typical Fiber Type	End Face Config.	Typ Fiber Size (Core/Cladding)	No. Of Fibers	Spring Force	Ferrule Ident.	Pin Clamp Ident. (Male)
-1253A	SM	APC	9/125	12	L	E-E12	2 Triangles
				24	H	E-E24	2 Triangles
-126	MM	PC	50/125,62.5/125	12	L	M-ME12	1 Triangle
				24	H	M-ME24	1 Triangle