

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

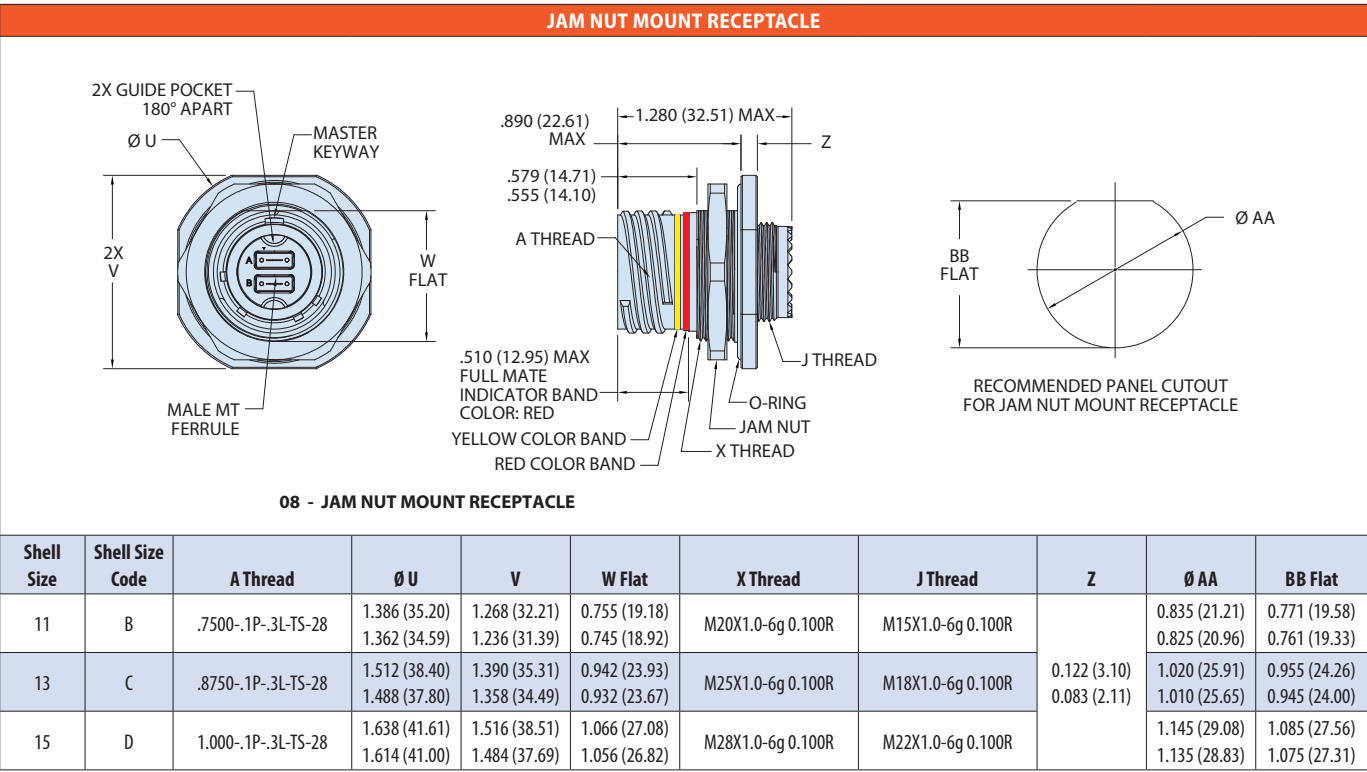
NOTES

- 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.

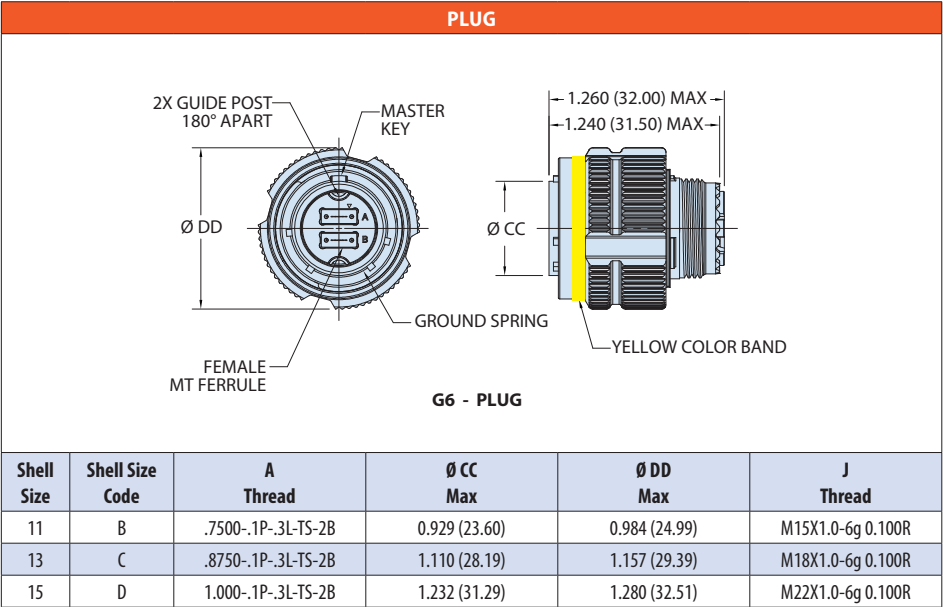
INSERT CAVITY CLOCKING ORIENTATION			
Code	Shell Size-Arrangement 11-1	Shell Size-Arrangement 13-2	Shell Size-Arrangement 15-4
1			
2			
3			

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

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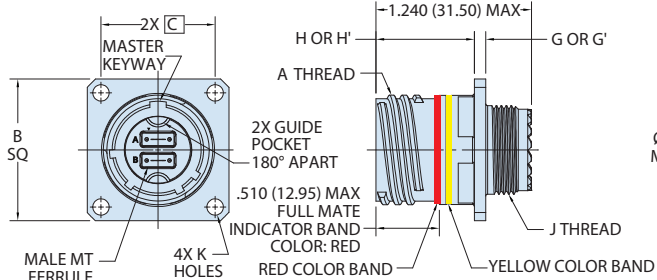
Panel Thickness Per MIL-DTL-38999/24: .062" Min - .126" Max



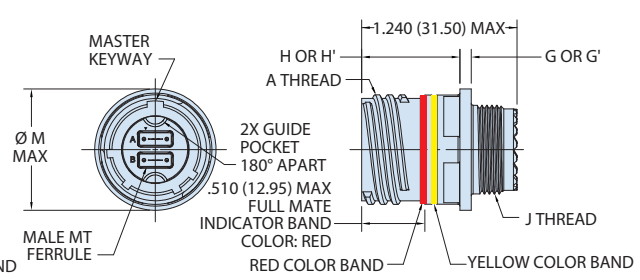
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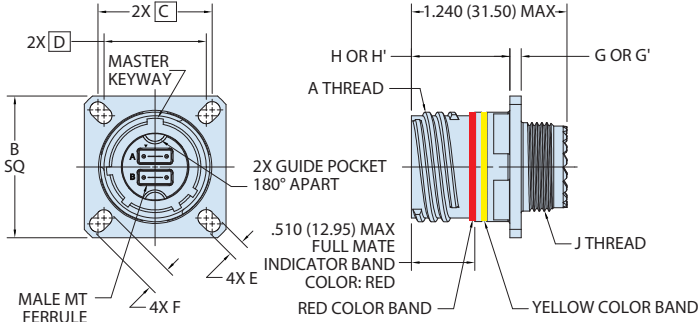
WALL MOUNT AND IN-LINE RECEPTACLE



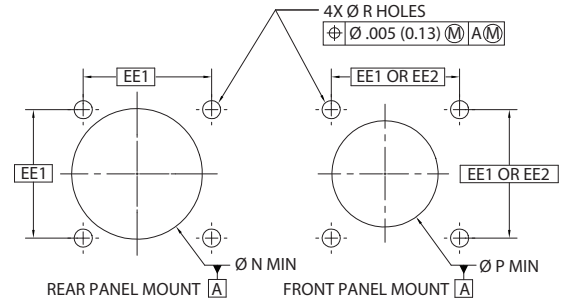
**H7 - WALL MOUNT RECEPTACLE
WITH ROUND HOLES (STANDARD)**



05 - IN-LINE RECEPTACLE



**S7 - WALL MOUNT RECEPTACLE
WITH SLOTTED HOLES**



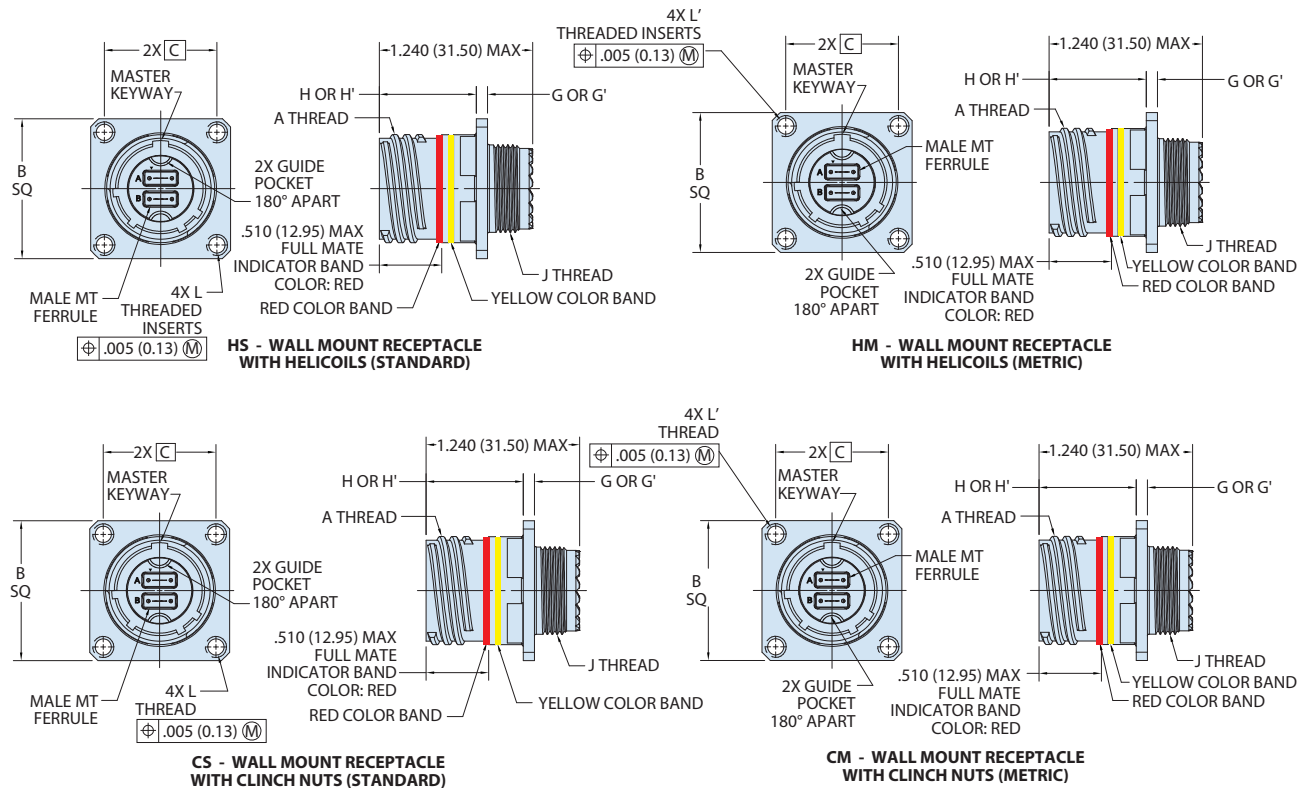
**RECOMMENDED PANEL CUTOUT
FOR WALL MOUNT RECEPTACLES**

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)		0.202 (5.13)					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)	0.165 (4.19)					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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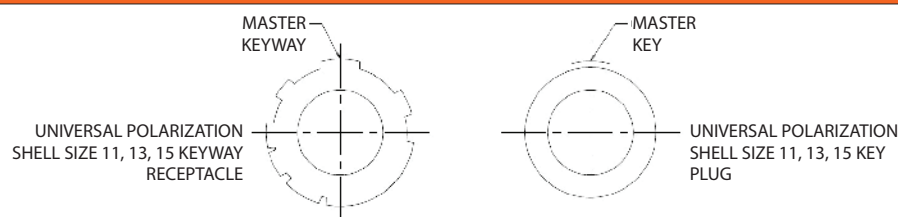
WALL MOUNT AND IN-LINE RECEPTACLE



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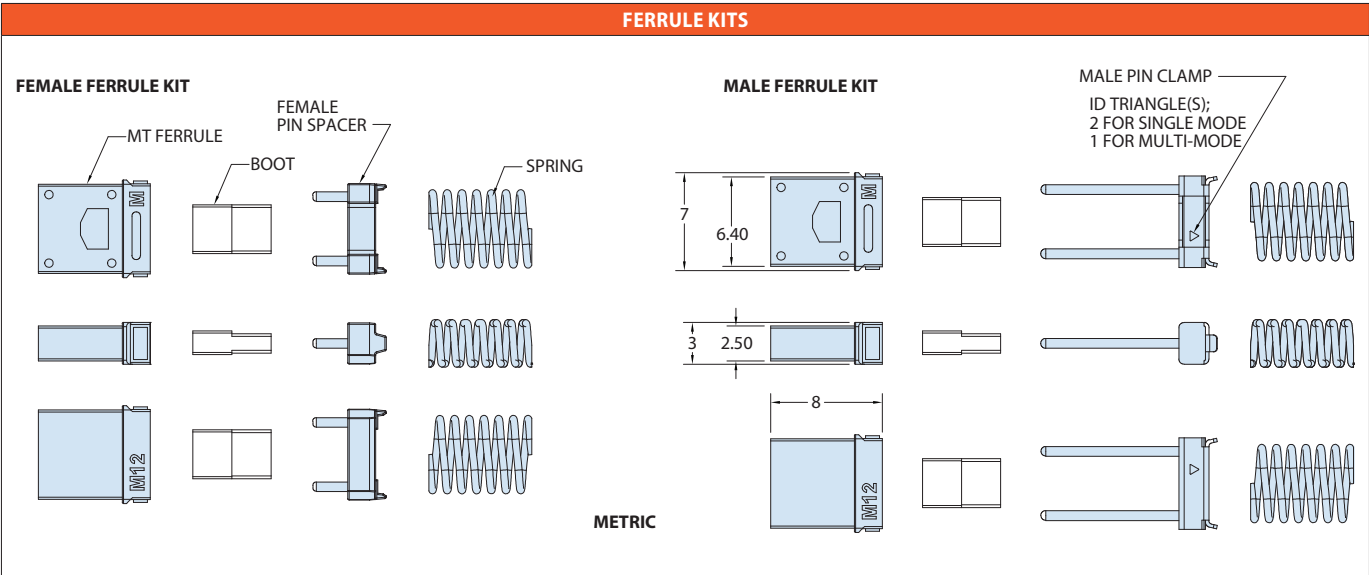
UNIVERSAL POLARIZATION CONFIGURATIONS



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			



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