



RJ45 CAT 5E/6A ETHERNET

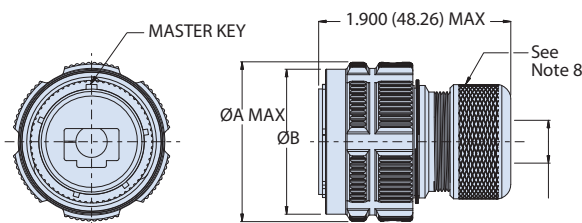
MIL-DTL-38999 Series III Type Connectors



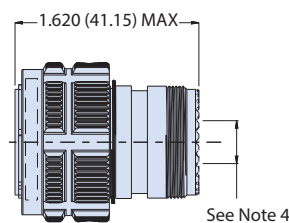
233-312 Plug with accessory threads

Part Number Development										
Sample Part Number	233-312	NF	G6	-	17	6A	N	1		
Series / Basic Part No.	233-312 = Cat 6A interface for D38999 type shell									
Material/Finish	NF = Aluminum/cadmium olive drag Contact factory for additional options MT = Aluminum/nickel PTFE ME = Aluminum/electroless nickel ZR = Aluminum/zinc-nickel									
Connector Style	G6 = Plug									
Plug Options	(-) = CAT 6A (28 AWG) A = CAT 6A (22-24 AWG)									
Shell Size	17 and 19									
RJ45 Category	6A = Cat 6A									
Alternate Polarization	A, B, C, D, E, N = Normal; Per MIL-DTL-38999									
RJ45 Orientation	1, 2, 3, 4									
Strain Relief Style	A = Accessory threads (accepts standard D38999 backshells) T = Shrink boot M = Over mold Omit for standard									
Cable OD	W = Large cable OD up to .400 (10.16) Omit for cable OD .187/.312 (4.75/7.92)									

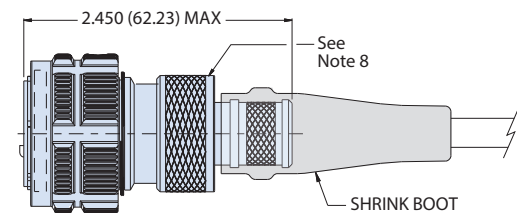
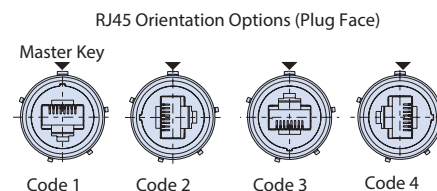
B



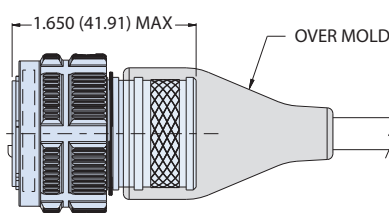
Strain Relief Style: Standard



Strain Relief Style: A - Accessory Threads



Strain Relief Style: T - Shrink Boot



STRAIN RELIEF STYLE: M - OVER MOLD

Dimensions		
Shell Size	ØA Max	ØB
17	1.406 (35.71)	1.276 (32.41) 1.268 (32.21)
19	1.516 (38.51)	1.382 (35.10) 1.374 (34.90)

NOTES

- Material/finish:
 - Barrel, coupling nut: see part number development. Composite coupling nut no plating required.
 - Insulators: high grade rigid dielectric/ N.A.
 - Seals: silicone based elastomer
 - Hardware: stainless steel/passivated
- RJ45 plug specifications:
 - RJ45 plug cable maintains shield continuity
 - RoHS compliant

- Electrical
- Current rating: 1 amp
 - D.W.V.: 1000V DC/min
 - I.R.: 500 Mega ohms minimum @ 1000V DC
 - Operating temperature range: -20°C to +85°C
- Meets IP68 in mated condition
 - Design accommodates cable outside diameter 0.187 (4.750) to 0.400 (10.16)
 - Design accommodates CAT 6A RJ45 modular plugs:
 - (-) = CAT 6A, 28 AWG
 - A = CAT 6A, 22-24 AWG

- See assembly instructions AI233-312 for cable termination and connector assembly. Assembly instructions to be kitted with each shipment
- CAT 6A modular plugs packaged loose for each plug connector.
- Recommended torque value for different cable outside diameter.

Cable OD (in)	.187/.225	.225/.275	.275/.312	.312/.400
Torque (in/lbs)	20.6	18.3	12.6	10

Mouser Electronics

Authorized Distributor

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Glenair:

[233-312MEG6-176AN1](#) [233-312NFG6-176AN1T](#) [233-312NFG6-176AN3](#) [233-312NFG6A176AN1T](#) [233-312ZRG6-196AN1](#) [233-312ZRG6-196AN2](#)