



Compliance Matrix for D38999 Series III Type Filter Connectors

MIL-DTL-38999, Table Xii, Group 2	Paragraph MIL-DTL-38999		3 Samples	
	TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	YES	STANDARD TEST
Gauge Location	3.22	4.5.18	NO	NOT REQUIRED. UUT HAS NON-REMOVABLE CONTACTS
Gauge Retention	3.23	4.5.19	NO	NOT REQUIRED. UUT HAS NON-REMOVABLE CONTACTS
Maintenance Aging	3.6	4.5.2	NO	NOT REQUIRED. UUT HAS NON-REMOVABLE CONTACTS
Contact Retention	3.24	4.5.20.1	NO	NOT REQUIRED. UUT HAS NON-REMOVABLE CONTACTS
Altitude-low temperature	3.25	4.5.21	YES	OC22756-0616284 Altitude Low Temperature (247-245)
Insulation resistance at ambient temperature	N/A	N/A	YES	OC22756-0616284 Altitude Low Temperature (247-245)
Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22756-0616284 Altitude Low Temperature (247-245)
Capacitance between contacts	N/A	N/A	YES	CAPACITANCE BETWEEN CONTACTS - BEFORE VIBRATION (247-245)
				CAPACITANCE BETWEEN CONTACT - AFTER VIBRATION (247-245)
Capacitance matching	N/A	N/A	YES	CAPACITANCE MATCHING - BEFORE VIBRATION (247-245)
				CAPACITANCE MATCHING - AFTER VIBRATION (247-245)
Insertion loss at minimum temperature	N/A	N/A	YES	INSERTION LOSS AT MIN TEMPERATURE (247-245)
Insertion loss at maximum temperature	N/A	N/A	YES	INSERTION LOSS AT MAX TEMPERATURE (247-245)
Insertion loss for feed thru contacts	N/A	N/A	YES	INSERTION LOSS AT ROOM TEMPERATURE (247-245)
Cross talk isolation	N/A	N/A	YES	CROSSTALK ISOLATION (247-245)
Temperature Shock (380 Cycles)	#N/A	#N/A	YES	380 CYCLES THERMAL SHOCK (247-245)
Air Leakage	N/A	N/A	YES	OC22817-0716312 Air Leakage (247-245)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	380 CYCLES THERMAL SHOCK (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	380 CYCLES THERMAL SHOCK (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	380 CYCLES THERMAL SHOCK (247-245)
Coupling Torque	3.11	4.5.7	YES	OC21361-0915309 Coupling Torque (247-245)
Insulation Resistance at elevated temperature	N/A	N/A	YES	Insulation Resistance at Temp (247-245)
Dielectric withstanding voltage at altitude	N/A	N/A	YES	OC21363-0915311 DWV at Altitude (247-245)
Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC21363-0915311 DWV at Altitude (247-245)
Durability	3.12	4.5.8	YES	OC21364-0915312 Durability (247-245)
Accessory thread strength	3.26	4.5.22	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Vibration	3.27	4.5.23	YES	OC22773-0616282B Sine Vibration (247-245)
				OC21365-0915313 Random Vibration at Temp (247-245)
Shock	3.28	4.5.24.1	YES	OC21362-0915310 Shock (247-245)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	OC21362-0915310 Shock (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC21362-0915310 Shock (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	OC21362-0915310 Shock (247-245)
Shell-to-shell conductivity	3.29	4.5.25	YES	OC22635-0316173 Shell-to-Shell Conductivity (247-245)
High temperature exposure	3.38.2	4.5.34.2	YES	High Temperature Exposure (247-245)

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Humidity	3.30	4.5.26	YES	OC21366-0915314 Humidity (247-245)
Insulation resistance at ambient temperature	N/A	N/A	YES	OC21366-0915314 Humidity (247-245)
Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC21366-0915314 Humidity (247-245)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	OC21366-0915314 Humidity (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC21366-0915314 Humidity (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	OC21366-0915314 Humidity (247-245)
Contact retention	3.24	4.5.20.1	NO	NOT REQUIRED. UUT HAS NON-REMOVABLE CONTACTS
Post test examination	3.52 and 3.53	4.5.49	YES	STANDARD TEST

MIL-DTL-38999, Table Xii, Group 5	Paragraph MIL-DTL-38999		3 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	YES	OC22772-0616281A Fluid Immersion (247-245)
Ozone exposure	3.33	4.5.29	NO	NOT REQUIRED. UUT WILL NOT BE EXPOSED TO OZONE.
Insulation resistance at ambient temperature	N/A	N/A	YES	OC22772-0616281A Fluid Immersion (247-245)
Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22772-0616281A Fluid Immersion (247-245)
Fluid immersion	3.34	4.5.30	YES	OC22772-0616281A Fluid Immersion (247-245)
Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22772-0616281A Fluid Immersion (247-245)
Coupling torque	3.11	4.5.7	YES	OC22772-0616281A Fluid Immersion (247-245)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	OC22772-0616281A Fluid Immersion (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22772-0616281A Fluid Immersion (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	OC22772-0616281A Fluid Immersion (247-245)
Post test examination	3.52 and 3.53	4.5.49	YES	OC22772-0616281A Fluid Immersion (247-245)

MIL-DTL-38999, Table Xii, Group 9	Paragraph MIL-DTL-38999		3 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	YES	OC22865-0716347A Salt Spray (247-245)
Shock (high impact)	3.28	4.5.24.2	NO	OC21209-0915355 Hi-Impact Shock (247-463)
Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22865-0716347A Salt Spray (247-245)
Electrolytic erosion	3.39	4.5.35	YES	OC22865-0716347A Salt Spray (247-245)
Shell-to-shell conductivity	3.29	4.5.25	YES	OC22865-0716347A Salt Spray (247-245)
Temperature cycling	N/A	N/A	NO	NOT REQUIRED.
Salt spray (corrosion)	3.17	4.5.13.2	YES	OC22865-0716347A Salt Spray (247-245)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	OC22865-0716347A Salt Spray (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22865-0716347A Salt Spray (247-245)

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Functional Test - Insulation resistance	N/A	N/A	YES	OC22865-0716347A Salt Spray (247-245)
Coupling torque	3.11	4.5.7	YES	OC22865-0716347A Salt Spray (247-245)
Shell-to-shell conductivity	3.29	4.5.25	YES	OC22865-0716347A Salt Spray (247-245)
Coupling pin strength	3.21	4.5.17	NO	NOT REQUIRED. UUT IS A SERIES III TYPE CONNECTOR.
Post test examination	3.52 and 3.53	4.5.49	YES	OC22865-0716347A Salt Spray (247-245)

MIL-DTL-38999, Table Xii, Group 10	Paragraph MIL-DTL-38999		2 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	NO	NOT REQUIRED. UUT IS NOT A FIREWALL CLASS CONNECTOR.
Firewall	3.40	4.5.36	NO	NOT REQUIRED. UUT IS NOT A FIREWALL CLASS CONNECTOR.
Post test examination	3.52 and 3.53	4.5.49	NO	NOT REQUIRED. UUT IS NOT A FIREWALL CLASS CONNECTOR.

MIL-DTL-38999, Table Xii, Group 11	Paragraph MIL-DTL-38999		3 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	YES	OC22641-0516246 Ice & Dust (247-245)
Ice resistance	3.44	4.5.40	YES	OC22641-0516246 Ice & Dust (247-245)
Dust (fine sand)	3.45	4.5.41	YES	OC22641-0516246 Ice & Dust (247-245)
Impact (classes J and M)	3.49	4.5.45	NO	NOT REQUIRED. UUT IS NOT A CLASS J OR M CONNECTOR.
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	OC22641-0516246 Ice & Dust (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22641-0516246 Ice & Dust (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	OC22641-0516246 Ice & Dust (247-245)
Post test examination	3.52 and 3.53	4.5.49	YES	OC22641-0516246 Ice & Dust (247-245)

MIL-DTL-38999, Table Xii, Group 13	Paragraph MIL-DTL-38999		2 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	NO	NOT REQUIRED. UUT IS NOT A CLASS J OR M CONNECTOR.
Hydrolytic stability (classes J and M)	3.47	4.5.43	NO	NOT REQUIRED. UUT IS NOT A CLASS J OR M CONNECTOR.
Post test examination	3.52 and 3.53	4.5.49	NO	NOT REQUIRED. UUT IS NOT A CLASS J OR M CONNECTOR.

MIL-DTL-38999, Table Xii, Group 14	Paragraph MIL-DTL-38999		2 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Visual and Mechanical Inspection	3.1, 3.3, 3.4, 3.5, 3.52 and 3.53	4.5.1	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Coupling torque	3.11	4.5.7	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Backshell shield braid-to-shell conductivity	3.29.1	4.5.25.1	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.

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Resistance to indirect lightning strike	3.51	4.5.47	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Backshell shield braid-to-shell conductivity	3.29.1	4.5.25.1	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Coupling torque	3.11	4.5.7	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Insulation resistance at ambient temperature	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Dielectric withstanding voltage at sea level	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.
Post test examination	3.52 and 3.53	4.5.49	NO	NOT REQUIRED. UUT DOES NOT HAVE ACCESSORY THREADS.

Lightning Transient Test Group	Paragraph MIL-DTL-38999		2 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Lightning transient test	N/A	N/A	YES	TR056503 Lightning (247-245)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	TR056503 Lightning (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	TR056503 Lightning (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	TR056503 Lightning (247-245)

Rapid Decompression And Explosion Proofness Test Group	Paragraph MIL-DTL-38999		2 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Rapid decompression	N/A	N/A	YES	OC22757-0616266 Rapid Decompression (247-245)
Explosion Proofness	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE ACTIVE COMPONENTS.
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	OC22757-0616266 Rapid Decompression (247-245)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	OC22757-0616266 Rapid Decompression (247-245)
Functional Test - Insulation resistance	N/A	N/A	YES	OC22757-0616266 Rapid Decompression (247-245)

Filter Life Test Group	Paragraph MIL-DTL-38999		2 Samples	
TEST OR INSPECTION	REQUIREMENT	TEST METHOD	TEST REQUIRED?	TEST REPORT
Filter life	N/A	N/A	YES	1000 Hour Life Test (247-075)
Functional Test - Ground contact resistance to connector shell	N/A	N/A	NO	NOT REQUIRED. UUT DOES NOT HAVE GROUND CONTACTS.
Functional Test - Contact capacitance to ground	N/A	N/A	YES	1000 Hour Life Test (247-075)
Functional Test - Dielectric withstanding voltage at sea level	N/A	N/A	YES	1000 Hour Life Test (247-075)
Functional Test - Insulation resistance	N/A	N/A	YES	1000 Hour Life Test (247-075)

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