

Scan Qr Code To Know More



Scan Qr Code To Contact You



ENVITEST LABORATORIES PVT LTD
ISO/ IEC 17025-NABL Accredited Laboratory
Certificate#TC7490
DGAQA Approved Lab
Certificate # 1408/LAB/DGAQA/TECH-COORD/12
No.14-1510, Shamanna Reddy Layout, Garvebhavi Palya, Hosur Road,
Bangalore-560068
Tel: 080 4217 1044
Tel: +91 9606075771
Tel: +91 9606075774
info@envitestlab.com
www.envitestlab.com



Testing | Certification | Inspection | Engineering

www.envitestlab.com | info@envitestlab.com | 080-42171044 | 9606075771



About Envitest Laboratories

A reputable company that focuses on a comprehensive range of testing and analysis services, in the domain of electronic products. The services encompass pre-compliance testing, compliance testing, product certification, quality assurance, engineering services and certification services, making us a versatile and essential resource for product designers, developers, research center, R&D institutes, Inspection bodies, certification bodies, manufacturers, and businesses across industry domains. Envitest Laboratories plays a decisive role in this process by offering a suite of services designed to evaluate products thoroughly, thus empowering them.

Dynamics & Vibration

- Acoustic noise testing
- Impact testing
- Vibration testing
- Shock testing
- Drop testing.
- HALT testing
- HASS testing
- HATS testing
- Materials fatigue testing
- Bump/Bounce testing



Partner With Us

Envitest Laboratories is a talented and indispensable partner for product testing and analysis. Our extensive testing and analysis services cover the entire product development cycle, from pre-compliance evaluation to certification and beyond, ensuring that products not only meet regulatory standards but also excel in terms of quality, reliability, safety, and performance. Our expertise empowers businesses to bring innovative products to market with confidence and in short time, knowing that they are backed by thorough testing and compliance laboratory supporting in every aspect of development cycle.

Climatic Simulations

- Temperature & Humidity
- Thermal Shock
- Altitude
- HALT/HASS
- Salt Spray
- Salt Fog
- Cyclic Corrosion
- Fluid Contamination
- Mist Test
- Sand & Dust
- UV/Solar Radiation
- Tropical Exposure Test
- Ice & Snow
- Mix Flowing Gas
- Explosive Atmosphere



We Serve

Envitest's accredited categories encompass Environmental, EMC, Electrical, Safety, Telecom Interface Testing, Industrial and Telecom OFC, Military and Industrial Connectors, and Certification for products from various domains, including Military, Aerospace & Defense, Military, Navy, Automotive, Railway, Consumer Electronics, Consumer Products, Energy, Information Technology, IoT, Telecommunications, Medical Devices, and Industrial Products and Equipment designed for hazardous locations."

Contamination And Ingress

- Fluids Contamination
- Fluids Susceptibility
- Sealing
- Pressure Difference
- Vacuum
- Rain
- Drip
- Spray
- Immersion
- Water
- Dust
- Penetration





AIRCRAFT ELECTRICAL TESTING

- MIL-HDBK-704-1 Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics
- MIL-HDBK-704-2 Power Group SAC: Single Phase, 400Hz, 115V.
- MIL-HDBK-704-3 Power Group TAC: Three Phase, 400Hz, 115V.
- MIL-HDBK-704-4 Power Group SVF: Single Phase, Variable Frequency, 115V.
- MIL-HDBK-704-5 Power Group TVF: Three Phase, Variable Frequency, 115V.
- MIL-HDBK-704-6 Power Group SXF: Single Phase, 60Hz, 115V.
- MIL-HDBK-704-7 Power Group HDC: High Voltage DC 270VDC.
- MIL-HDBK-704-8 Power Group LDC: Low Voltage DC 28VDC.
- RTCA DO-160 Power input, Chapter 16
AC equipment: A(CF), A(NF) or A(WF) (1 Phase /3 Phases)
DC equipment: A, B, D & Z



OPTICAL FIBER AND CABLE TEST FACILITY

- OFC Test Facility as per TEC ER, IEC 60793-XX, ITU-T G 65X.XX, Telcordia GR-20-CORE, EIA/TIA 455-XX standards

Transmission Characteristics

- Attenuation
- Chromatic Dispersion
- Polarization mode dispersion
- Cutoff Wavelength
- Fibre Macro bend loss
- Insertion loss
- Return loss

Mechanical Characteristics

- Proof test for minimum strain level
- Peak Stripability force to remove primary coating of the fiber
- Dynamic Tensile Strength
- Dynamic Fatigue
- Fiber Curl
- Tensile Strength
- Crush Resistance
- Impact
- Kink Test
- Repeated Bend Test
- Torsion Test
- Abrasion Resistance Test

Colour Qualification

- MEK RUB Test

Environmental Characteristics

- Temperature Cycle Test
- Cable Drip Test
- Temperature-Humidity Cycle Test
- Water Immersion Test
- Watertightness/Water Blocking Test
- Accelerated Aging Test
- Retention of Coating Color
- High Temperature and High Humidity (Damp Heat) Test:
- Cable Material Compatibility test
- Cable Aging test
- UV Radiation Test
- Check of the effect of aggression media on the cable
- Electrical continuity test



TELECOMMUNICATION INTERFACE TESTING

- Telecommunication Interface Test Facility as per TEC ER, IEEE 802, ITU-T, RFC standards.

Gigabit optical interface (1GE, 10GE, 40GE, 100 GE, 200 GE, 400GE)

- Wavelength | Receiver Sensitivity | Average Launch Power

PON Interface Parameters (GPON, EPON, XGPON, XGSPON, NGNPON.)

- Operating Wavelength in upstream and downstream direction
Receiver Sensitivity at ONT and OLT
Average Launch Power / output power at ONT and OLT

PON Common Parameters verification

- Throughput | Frameloss of PON | Latency of PON | MAC Address Learning and Aging Control | MAC Address Limitation | Authentication in PON | MAC Learning Support | Maximum Bandwidth Limiting | Minimum Guaranteed Bandwidth | Port-id Based VLAN Support | VLAN Stacking to Network Support

STM Interface (STM 1, STM 4, STM 16, STM 64)

- Receiver Sensitivity | Mean Launched Power | Nominal Bit Rate | Operating Wavelength | Receiver Overload

OUT Interface Parameters (OUT 1, OUT 2, OUT 3, OUT 4)

- Central Frequency | Mean Total Output Power | Minimum receiver overload | Nominal Bit Rate | Receiver Sensitivity

Electrical Ethernet 10/100/1000 Mbps

- Link speed and auto-negotiation

2-Wire system

- Return Loss | Over Voltage/Over current protection | Idle State current measurement | Max Loop current measurement | Insulation test | Resistance to earth | DC Resistance

E1 and E3 Interface Parameters

- Input Jitter | Nominal Bit rate | Input Return Loss | Output Jitter | Pulse Mask

IP Conformance Parameters

- Dynamic Routing Functional Tests | Static Routing Functional Tests | IPv4 Parameters | IPv6 Parameters | Mac Learning and Packet Forwarding | Dual IP layer operation | PPPoE Parameters | Radius Function Test | TCP Parameters | LDP Parameters | Manageability SNMPv2 / SNMPv3 Functional Tests | Spanning Tree Protocol

Energy consumption rating test facility on telecom network device.

Products we support.

- 2- Wire Telephone Equipment | G3 Fax Machine | Modem | ISDN
- Customer Premises Equipment | Private Automatic Branch Exchange | Conferencing and Presentation Equipment | IP Terminal
- | Point of Sale Devices | Signalling Gateway | PON Family of Broadband Equipment | IoT Gateway | Tracking Device | Satellite Communication Equipment | LAN Switch | Router | End Point Device for Environmental Monitoring | Feedback Device | Media Gateway | Infiniband Switch | IP Multimedia Conferencing Equipment | IP Security Equipment | Server | Converged Multiservice Application Access Equipment | Hybrid Set Top Box | Media Converter | Transmission Terminal Equipment-2 | Base Station for Cellular Network | E-band Fixed Radio Relay Systems.



CONNECTORS Testing as per MIL-DTL-38999, EIA-364-XX series

- Visual and Dimensional Inspection Test
- Contact Resistance Test
- Low level contact Resistance Test
- Shell-To-Shell and Shell-To- Bulkhead Resistance Test
- Microsecond Discontinuity Test
- Dielectric Withstanding Voltage Test
- Insulation Resistance Test
- Contact Retention Test
- Insert Retention Test
- Insert Bond strength Test
- Contact Insertion, Release and Removal Force Test
- Contact Engagement and Separation Test
- Probe Damage Test
- Mating and Unmating Force Test
- Coupling and Uncoupling Force Test
- Maintenance Aging Test
- Salt Spray Test Procedure
- Vibration Test
- Humidity Test
- Altitude Immersion Test
- Thermal Shock (Temperature Cycling) Test



Certification

- Regulatory Compliance Assessment:
- Radio Frequency (RF)
- Electrical Safety
- Quality Management
- Hazardous Materials
- Energy Efficiency
- Certification Mark Application



Inspection

- Pre-product inspections
- Functional Testing
- Visual Inspection
- Electrical Safety Testing
- Component Verification
- Software and Firmware Inspection
- Packaging Inspection:



Engineering

- Customized Tests
- Test systems engineering
- Test parametric engineering
- Managed services testing
- Advanced modelling



Materials / Metallurgical Testing

- Shear | Flexure | Tensile/Compression | Corrosion
- Fatigue | Impact | Composition
- Flammability | Microscopic analysis



We Test Precisely
To Empower Your
Product

OUR CUSTOMERS

