

# **Testing Laboratory**

Profit from our cable expertise



#### DESCRIPTION

Increase your competitiveness, outsource your specific cable tests, and get an external certified report from our cable Testing Laboratory.

We can take care, for instance, of your type-testing and/or production qualification testing following the latest applicable standards. The testing is always performed on calibrated measurement instruments following the ISO17025 standard. Results are made available in a well-recognized test report.

Our testing laboratory is particularly relevant for tests for which you lack the capabilities and/or the adequate resources to perform, or that are seldom required. Moreover, it allows you to properly balance your CapEx and OpEx, while having access to unmatched knowledge and expertise.

#### **KEY FEATURES**

- You have to perform some tests only occasionally

   no need to invest in high-performance equipment
   extend capabilities for tests that are seldom performed
- You have to present a certificate

   AESA owns an ISO 17025 accredited laboratory and delivers test certificates
- You cannot, or do not want to, do testing by yourself

   outsourcing can be an effective and economical solution
- You want to verify before investing

   compare measurements made with your own equipment
   assess the performance and reporting capabilities of new equipment





#### **TECHNICAL SPECIFICATIONS**

Measured parameters	<ul> <li>Standards parameters (see below)</li> <li>Specific parameters on demand</li> <li>Specific norms on demand</li> </ul>
Location	At AESA premises (samples to be sent to AESA)
	Customer can attend the tests
Various	<ul> <li>Official certificate delivered at the end</li> </ul>
	NDA document on request
Article No	81.0001.0002.0

## LIST OF STANDARD PARAMETERS

Type of Test	Parameters	Requirements
Low Frequency	<ul> <li>Resistance</li> <li>Capacitance (mutual and unbalanced)</li> </ul>	Ideally 100 meters sample
High Frequency LAN cable (up to 4GHz) Coaxial cable (up to 6GHz) Patch Cord	<ul> <li>Insertion Loss</li> <li>Return Loss</li> <li>Crosstalk</li> <li>Impedance</li> </ul>	Ideally 100 meters sample
	• LCL/TCL	Ideally 100 meters sample
	Alien Crosstalk	7 cables bundle of ideally 100 meters
EMC parameters (Shielding effectiveness)	<ul> <li>Transfer Impedance</li> <li>Coupling attenuation</li> <li>Screening attenuation</li> </ul>	0.5 meter sample for TI,3 meters for AS and AC
	Reduction Factor	1.5 or 2.5 meters sample depending on standards
High Voltage Testing (max. 5 kV, DC)	<ul><li>Insulation resistance</li><li>Dielectric strength</li></ul>	
Resistance	DC Linear resistance	2 to 4 meters sample depending on design and cross-section
	AC Linear resistance	4 meters sample
Resistivity	<ul> <li>Conductivity / resistivity of class 1 sample conductors</li> </ul>	2 meters sample

## **EXAMPLES OF TEST CERTIFICATES AND REPORTS**

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