Testing Laboratory - Cable expertise

Let us ensure the conformity of your cables...



DESCRIPTION

When turning on the light, using internet or starting your car, you might think that everything simply works by magic. We all know that many cables and wires contribute to this, but it is very easy to forget about it. Things operate well most of the time but in case of cable defaults, it can cause safety hazards and deteriorate equipment performance. More than just compliance with standards, electrical safety and performance testing is designed to protect people and the environment in which it will be used.

Reliable verification of electrical parameters requires the use of accurate and calibrated instruments. As a recognized manufacturer and leader in cable metrology, AESA develops and manufactures appropriate testing equipment. Additionally, AESA operates an ISO 17025 accredited laboratory. As such, you can rely on AESA to outsource your electrical test and measurement of your cables.

KEY FEATURES

- You should only test 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 deliver test certificates
- You cannot or do not want to test by yourself
 outsourcing can be an effective and economical solution
- You want to check before investing

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





TECHNICAL SPECIFICATIONS

Measured parameters	Standards parameters (see below)Specific parameters on demand
Location	 At AESA premises (samples to be sent to AESA)
Various	Customer can attend the testsOfficial certificate delivered at the end
Article No	81.0001.0002.0

LIST OF STANDARD PARAMETERS

Category	Parameters
Low Frequency	ResistanceCapacitance (mutual and unbalance)
High Frequency LAN cable (up to 3GHz) Coaxial cable (up to 4.5 GHz) Patch Cord	 Insertion Loss Return Loss Crosstalk Impedance LCL/TCL
EMC parameters (Shielding effectiveness)	Transfer ImpedanceCoupling attenuationScreening attenuation
High Voltage Testing (max. 5 kV, DC)	Insulation resistanceDielectric strength
Resistance	DC Linear resistanceAC Linear resistance
Resistivity	Conductivity / resistivity of class 1 sample conductors

EXAMPLES OF TEST CERTIFICATES AND REPORTS

	AESA Cortaillod	
VERIFICATION OF CONFORMITY Certificate Number A00xxx		
Customer	: Customer name, Country	
Test location	: Colombier Switzerland	
Product description	: Fieldbus Cable	
Trade mark	: xx1012	
Model/type/marking	: 1x2x1 ABCDEF	
Additional information	: 1 pair, Alu foil and braid	
2 samples of 100m of the abo following results versus speci	we product have been tested in our authorized laboratory with fied Standards:	
Capacitance unbalance to GI DC Resistance	ID : according to Edition 3.0 2014-08 IEC 61158-2 Passed : according to Edition 3.0 2014-08 IEC 61158-2 Passed	
Input impedance Attenuation loss Propagation delay change	according to Edition 3.0 2014-08 IEC 61158-2 Passed according to Edition 3.0 2014-08 IEC 61158-2 Passed according to Edition 3.0 2014-08 IEC 61158-2 Passed	
	y was done on 2 samples of current production. As specified in the reflect the image of the current quality level of the manufacturing	
	y has been established by an authorized third party laboratory. All a full automatic system AESA model SemaCare 32S.	
Colombier, 23.02.2018	AESA CORTAILLOD AESA S.A.	
Tested by : D. Gigon	Approved by : AESA Quality manager	
2H	- Haz	
AESA S.A. CH-2013 COLOMBIER / SWITZERLAND CHEMIN DE LA PLAINE 7 INTERNET http://www.asus-cortailed.c	AESA GubB D-51429 REEGISCH GLADBACH / GEISIANY THO TECHNOLOGIPARE REFORMED GLADBACH an INTERNET http://www.aco-contail/of.aun	

