

# CABLE TESTER

## DEFINITION

SYNOR CABLE TESTER RANGE IS AN ATE (AUTOMATIC TEST EQUIPMENT) DEDICATED FOR TESTING ELECTRICAL WIRING HARNESSSES, BACKPLANES OR CABLES

## APPLICATION

SEFELEC INVESTS A LOT IN R&D, BUT ALSO LISTENS TO HIS CUSTOMERS IN ORDER TO ALWAYS PROVIDE BETTER AND MORE ADAPTED SOLUTIONS FOR THE SYNOR CABLE TESTER USERS. SINCE MORE THAN 40 YEARS, OUR AUTOMATIC HIGH VOLTAGE CABLE TESTERS HAVE BEEN SOLD AROUND THE WORLD, IN MORE THAN 26 COUNTRIES, MOSTLY IN THE BELOW INDUSTRIES



- ▶ aerospace (satellites, launch vehicles, sub-assemblies, slings, ...)
- ▶ aeronautic (planes, helicopters, optronics, unmanned air vehicles, sub-assemblies, ...)
- ▶ railways (trains, metro, tramways, ...)
- ▶ army (radars, rockets, ucav, submarines, slings, tanks, ...)
- ▶ connector manufacturers, telecommunication, electrical cabinets, medical equipments, ...

Our business is made half in production, half in maintenance.



## SPECIFICATION OVERVIEW > HARDWARE

FROM 16 TEST POINTS TO 100 000 TEST POINTS, OUR CABLE TESTER RANGE INTEGRATES THE FOLLOWING FEATURES

- ▶ continuity test in 2 and 4 wires mode up to 2.5 A
- ▶ insulation test up to 4200 VDC
- ▶ hipot test up to 5000 VAC and 6000 VDC
- ▶ component test (capacitor, resistance, diode, zener diode, inductance, GMOV, transorbs), shielding test, twisted pairs, coaxial cable measurement ...
- ▶ stimuli and functional test for relay, light, speaker, engine activation, energisation ...
- ▶ tester configuration : mobile, compact, or distributed modules
- ▶ specific tests : optical fibers, reflectometry (distance to fault module, break point distance), 1553B bus, 3910 bus ...
- ▶ integration of external devices (SXS, DXS, MGR10 microhmmeter, M1501 teraohmmeter, ...) for higher specs availability



## SPECIFICATION OVERVIEW > SOFTWARE

WINDOWS® ORIENTED, WINPASS, OUR MULTI LANGUAGES SOFTWARE IS EASY TO LEARN, TO PROGRAM, TO USE, AND CAN ALSO BE CUSTOMIZED BY THE CUSTOMER FOR HIS OWN APPLICATION

- ▶ automatic testing, connector library, equivalence tables, dialogues boxes, self learning, self testing, graphical results, easy calibration
- ▶ production oriented - its fastness is an advantage, and data traceability (EXCEL®, ACCESS®, WORD® reports) is today essential
- ▶ high-technology oriented – some external SEFELEC equipment such as microhmmeter, teraohmmeter, hipot testers with very high specs can be easily controlled through the same ease and data traceability
- ▶ our powerful 3FC module lets you CONVERT one or hundreds of existing text files (from internal sources, other cable tester manufacturers, ...) or CAD files (ACCESS®, CATIA®, See One from XAO®, MENTOR®, ELSA®, ...) into Sefelec format files, with only 3 clicks

## SELECTOR GUIDE

From the below board select the right product according to your application

Sefelec Cable Tester range is made of 2 types :

- ▶ Low voltage + high voltage Cable Tester (all points in 1 rack/cabinet)
- ▶ Low voltage + high voltage Cable Tester (points presented in distributed modules (satellites)/rack/cabinet)

The first presentation of Cable Tester is dedicated to customers who do not need long distance of interface cables

The second presentation of Cable Tester has been especially designed for aeronautic, aerospace & transportation industry. Indeed, in such applications, a Cable Tester needs big distances of interfaces and for this reason, distributed modules are ideal

Sefelec Cable Tester/ Harness Tester range	Number of test points	AC/DC Dielectric strength test (hipot test)	DC Insulation test / resistance range	2/4 wires continuity test	Component test and additional tests	Presentation
SYNOR 1809 low voltage cable tester	64-16000	No	No	1Ω-250Ω 10mΩ-250Ω	resistance, diode, capacitor, shielding	distributed modules (satellites)
SYNOR 1202 high voltage cable tester	64-256 Multi-contact relays	Up to 1500 VAC 2000 VDC (AC hipot option)	20-2000V DC 50kΩ-1GΩ	1Ω-250Ω 1mΩ-250Ω	resistance, diode, capacitor, inductance, shielding	small rack
SYNOR 4202 high voltage cable tester	64-100000 Multi-contact relays	Up to 1500 VAC 2000 VDC (AC hipot option)	20-2000V DC 50kΩ-1GΩ	1Ω-250Ω 1mΩ-250Ω	resistance, diode, capacitor, inductance, shielding	19 inches rack
SYNOR 4203 high voltage cable tester	64-100000 Multi-contact relays	Up to 1500 VAC 2000 VDC (AC hipot option)	20-2000V DC 50kΩ-1GΩ	1Ω-250Ω 1mΩ-250Ω	resistance, diode, capacitor, inductance, GMOV, transorb, shielding	19 inches cabinet
SYNOR 4207P high voltage cable tester	64-100000 2 relays per point	Up to 5000 VAC 6000 VDC (AC hipot option)	20-4200V DC 50kΩ-1GΩ	1Ω-250Ω 1mΩ-250Ω	resistance, diode, capacitor, inductance, shielding	19 inches rack
SYNOR 4208P high voltage cable tester	64-100000 2 relays per point	Up to 5000 VAC 6000 VDC (AC hipot option)	20-4200V DC 50kΩ-1GΩ	1Ω-250Ω 1mΩ-250Ω	resistance, diode, capacitor, inductance, GMOV, transorb, shielding	19 inches cabinet
SYNOR 4209 high voltage cable tester	64-100000 2 relays per point/ multi contact relays	Up to 5000 VAC 6000 VDC (AC hipot option)	20-4200V DC 50kΩ-1GΩ	1Ω-250Ω 1mΩ-250Ω	resistance, diode, capacitor, inductance, shielding	distributed modules (satellites)

For product detailed datasheet, options and accessory details, or for more technical information about cable tester functions, go to our website

To download our last Cable Tester overview powerpoint presentation, go to our website

All our equipment are delivered with data measurement, calibration certificate, CE mark certificate and user manual

### SEFELEC ADDED VALUES

- ▶ 6 types of switching boards in order to comply with your need and your budget
- ▶ a software with only the features you need in order to make it easy to use
- ▶ tester compatibility with possible software updates and hardware upgrades guaranteed during more than 20 years

For more information on Sefelec products, applications or services, please contact your local Sefelec office.

The complete list is available at :

[http://www.sefelec.com/carte\\_en.html](http://www.sefelec.com/carte_en.html)



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