CABLE TESTER

DEFINITION
SYNOR CABLE TESTER RANGE IS AN ATE (AUTOMATIC TEST EQUIPMENT) DEDICATED FOR TESTING ELECTRICAL WIRING HARNESSES, 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, sliprings, …)
► aeronautic (planes, helicopters, optronics, unmanned air vehicles, sub-assemblies, …)
► railways (trains, metro, tramways, …)
► army (radars, rockets, uav, submarines, sliprings, 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, transors), 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 powerfull 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.

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

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

► 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

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