Test all of your cables and wirings...

Identify and locate their faults



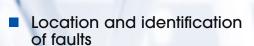
C.A 7024

Fault Mapper™ Alphanumeric TDR

C.A 7026
Fault Mapper™ Pro
Graphic TDR

C.A 7028

Wire Mapper™ Pro LAN Tester



- Extended measuring range: up to 3.500 m
- All types of cables: electric, coaxial, multipair...
- Backlit graphic or alphanumeric LCD display
- Compact instruments: easy to carry and use



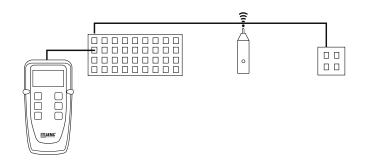
The full range of functions offered by the le Fault Mapper™ C.A 7024, the Fault Mapper™ Pro C.A 7026 and the Wire Mapper™ C.A 7028 make them ideal for communication engineers and technicians, for the teams assigned to detect faults in the field of telecommunications, for linemen, and for enterprises in the communications sector.

The Wire Mapper™ can also be of use to IT managers and administrators working to locate faults or to upgrade an existing network installation.



Built-in «Cable tracer» function

In addition to their TDR functions, the **C.A 7024** and **C.A 7026** like the **C.A 7028**, have a sound frequency generator (810 Hz to 1110 Hz) that can be used in conjunction with a sound probe to facilitate locating faults and identifying pairs in a harness.



Rugged, practical instruments

To meet the most severe requirements of outdoor use, the instruments are encased in a rugged, reinforced fireproofed ABS housing. The backlit display screen is made of impact-resistant ABS. Waterproof and dustproof (IP54), the instruments are designed and built in conformity with international quality standards. In addition, their small size makes them easy to carry and use.

Battery charge level indication

When powered up, the **C.A 7024, C.A 7026** and **C.A 7028** automatically display the remaining battery life, so the operator knows whether the instrument is ready for a long-duration test. To save power, the instrument automatically switches to standby after 3 minutes of non-use.



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Professional and inexpensive, the Fault Mapper™ C.A 7024 (digital) and the Fault Mapper™ Pro C.A 7026 (graphic) are portable time-domain reflectometers (TDR) designed to detect and locate faults in shielded, coaxial, and communication cables over maximum distances of 2,000 m and 3,500 m, respectively.

The Wire Mapper™ C.A 7028 is a professional wiring tester and fault identifier for data and voice networks and installed copper connecting wires.

C.A 7024 / C.A 7026

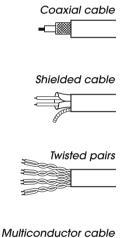
Fault Mapper™ and Fault Mapper™ Pro

Alphanumeric or graphic TDR

Extended measuring range...

The Fault Mapper™ C.A 7024 and the Fault Mapper™ Pro C.A 7026 detect and locate common cable faults. They combine low cost with high quality and reliability. They cover their full measurement range (C.A 7024: 2,000 m / 6,000 ft; C.A 7026: 3,500 m / 11,700 ft) on all types of cables. In other words, they make full use of their capabilities when used on high-loss cables, such as twisted pairs and telephone wires, over long distances.





...on all types of cables

The C.A 7024 has an built-in library of common cable characteristics, which the user can easily select, so there is no need to look up the propagation velocity of each cable. For cables not catalogued in the internal library, the operator can select the relative propagation velocity manually in a range from 20 to 99%. Thanks to its automatic compensation device, there is no need to select the impedance of the cable.

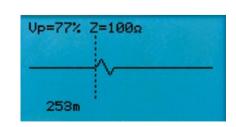
The C.A 7026 is suited to all types of communication cables. Their impedance can be selected from among 50, 75, and $100 \, \Omega$, typical of metallic communication cables, in particular coaxial cables and twisted pairs. The relative propagation velocity can be adjusted from 20 to 99% in 1% increments.

Chauvin Arnoux Fault Mapper V1.0 Open circuit

Effective fault detection

The Fault Mapper™ clearly and directly indicates the nature of the fault detected (open-circuit or short-circuit) and the distance to the fault

In addition to short-circuits and open-circuits. the Fault Mapper™ Pro detects shunts, junctions, deterioration caused by infiltration of water, and other impedance anomalies.



A new technology for fast and accurate measurements

The **Fault Mapper™** uses the Fast Edge Step TDR technology for improved range and resolution. The short rise time of the test pulse vields better resolution for the short ranges. The energy contained in the pulse ensures maximum range in all cables.

For its part, the **Fault Mapper™ Pro** has an automatic measurement scale linked to the position of the cursor. The instrument automatically selects the appropriate range from among its five measuring scales. This function cuts the time needed to locate a fault.



Test of telephone lines using a C.A 7026 on a switchboard Check of the length of cable on a reel using the C.A 7024



Any faults detected and all messages are displayed in the language selected by the user at the time of configuration (French, English, German, Spanish, Portuguese,

An operating mode suited to the situation

For simple faults, the C.A 7026 can be used in either single-pulse or continuous mode. For more complex faults, its continuous mode facilitates the detection of intermittent

Voltage alarm and stopping of test

Before each test, the C.A 7024 and the C.A 7026 check the voltage of the cables to which they are connected. If the instrument detects a voltage greater than about 10 V AC/DC, it warns the user and stops the test. The **Fault Mapper™ Pro** is also protected against overvoltages up to 250 V AC/DC.

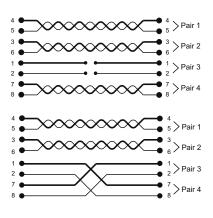


Cutting-edge technology

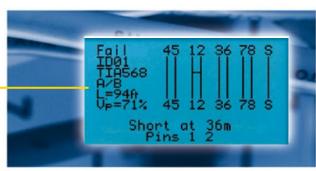
Le Wire Mapper™ C.A 7028 includes a unique function called EDTTM (End Discrimination Technology). This function considerably reduces the costs of commissioning installations, because the wiring diagram displayed on the screen clearly indicates the nature and position of the fault detected.

The instrument clearly and precisely indicates all faults in the cables, and their lengths, on its graphic screen.





«ID01» means that the cable terminated by identifier n. 1 has a short-circuit on its 1-2 pair.



Examples of diagrams of identification of open-circuit and crossed pairs in cables



Wiring subject to many international standards

The Wire Mapper™ measures the length of the cable before or after installation, identifies all common faults on horizontal wiring diagrams installed as per TIA568 A/B, ISO, EN, USOC and RNIS standards: open-circuit, short-circuited, crossed, separated or inverted pairs, and shield/screen continuity.

Here the Wire Mapper™ C.A 7028 is used to locate, on a switchboard, the cable serving an office several tens of meters away.

A whole network tested by a single instrument

The remote identifiers of the C.A 7028 are active and inform the remote operator when a test is over and whether it is PASS/FAIL. The instrument is delivered with an identifier bearing the number «1». Using additional identifiers («2» to «9»),

the Wire Mapper™ can test and identify up to 10 links from the switchboard.

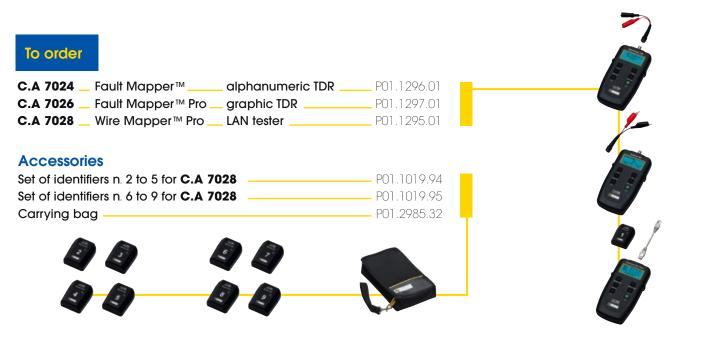
The Wire Mapper™ can also be used to check that a cable already installed is free of faults.

Safety first

Before checking an installed wiring network, the **Wire Mapper™** alerts the operator if telephone services are active on the cable tested (10 Mbps, 100 Mbps, Token Ring, etc.). This prevents accidental testing of an active LAN network and eliminates the associated risk of damage to the network or to the instrument.



Type of instrument	C.A 7024	C.A 7026	C.A 7028
	Fault Mapper	Fault Mapper Pro	Wire Mapper Pro
	Alphanumeric TDR (time-domain reflectometer)	Graphic TDR	LAN wiring tester
Maximum distance	2 000 m - 6000 ft	3500 m - 11700 ft	150 m - 500 ft
ypes of cables tested	shielded, coaxial, twisted pairs, multiconductor		UTP & STP (SSTP & FTP) as per TIA568 A/B, ISO, EN, USOC and RNIS standards
Cable selection	internal library	Automatic impedance selection	UTP, STP
delative propagation elocity	manual selection for the cable to be tested, from 0 to 99%		
Cable impedance	automatic selection	selected from among 50, 75, and 100 Ohm	
Faults detected	open circuits and short-circuits	short-circuits, open circuits, shunts, junctions, deterioration caused by infiltration of water and other impedance anomalies	open-circuit, short-circuited, crossed, or separated pairs, short-circuits between pairs, pair inversions, and shield/screen continuity
			end of installed link or connecting wire containing faults; fault detection
Measurement	display of distance to fault		location with a sound-emitting probe
	length of	cables (in m or ff)	
Test modes	Single pulse	pulse mode: one test pulse emitted for each press	Length of cable or link (in m or ft)
		continuous mode: several test pulses per second	
tesolution	0.1 m up to 100 m, then 1 m	Approximately 1% of range selected	
Accuracy	+/- 2% if relative propagation velocity configured	+/- 1% of range if relative propagation velocity correctly configured	+/- 5% of length
isplay	alphanumeric LCD screen 128 x 64 pixels graphic LCD screen 128 x 64 pixels		
rotection / Safety	voltage alert (> 10 V AC/DC) and test stopped		alerting of active services on the cable
Cable location and identification	built-in sound frequency generator		
Dimensions	165 x 90 x 37 mm		emitter: 165 x 90 x 37 mm identifier: 65 x 52 x 25 mm
Mass	350 g		350 g / 40 g
nvironmental	Storage temperature: -20 to +70°C (-4 to +158°F)		
onditions	Operating temperature: 0 to +40°C (32 to +112°F)		
rotection	IP 54 - ABS housing		
Delivery condition	test wires with alligator clips / carrying case		2 RJ 45 cords / 1 identifier / carrying case
Power supply Battery life	4 AA batteries (1.5 V) / 7.5 h in continuous use; 4,000 hours on standby		4 AA batteries (1.5 V) / > 100 hours in continuous use
Standards	safety: IEC61010-1/EN 60950 - EMC: BS/EN 61326 -1 - CE		



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