



01 Short->002
 02 Short->001
 03 Open->003
 04 Open->004
 05 Open->005
 06 Open->006
 07 Open->007
 08 Open->008
 09 Open->009
 10 Open->010
 11 Open->011
 12 Open->012
 13 Open->013
 14 Open->014
 15 Open->015



Metro.Cable a custom TDR

in Test we Trust

ALBEDO Metro.Cable is a customizable time-domain reflectometer (TDR) capable to characterize and locate faults in metallic cables of any nature including coaxial, twisted pair wire, or special cables used in Power Lines

Metro.Cable is a hand-held device designed for those companies working with transmission and power cables.

Near-end adapter

Near-end adapter is a switching matrix that allow the selection of any pair of conductors to execute the TDR test.

Far-end Active Loop adapter

Far-end adapter communicated with an independent media with the Metro.Cable board can open/close any two circuits, generate a tone or a special impedance.

Transmission Cables



Metro.Cable can measure cable length, distance to faults, for coaxial, twisted pairs that are being used in Ethernet installations using RJ45 twisted pairs and E1, TV or any other installations using BCN.

“Any cable can be verified including customer designed cables and avionic circuits

Avionics

Metro.Cable is used on aviation wiring for both preventative maintenance and fault location because time domain reflectometry has the advantage of precisely locating the fault location within thousands of miles of aviation wiring.

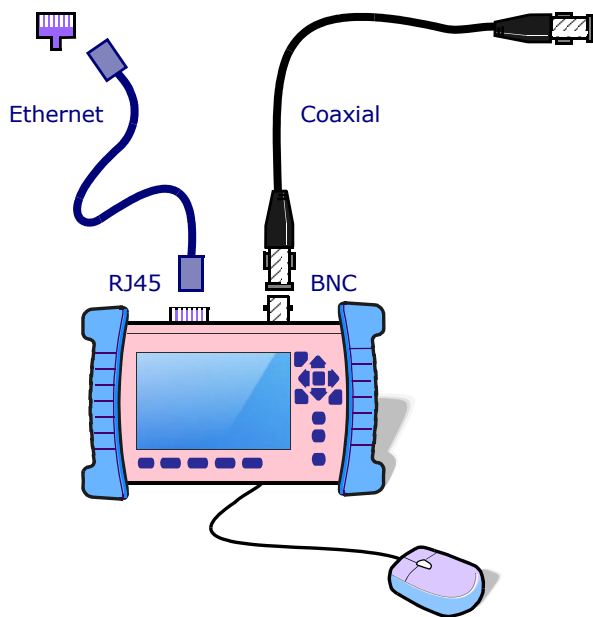
Special Power cables



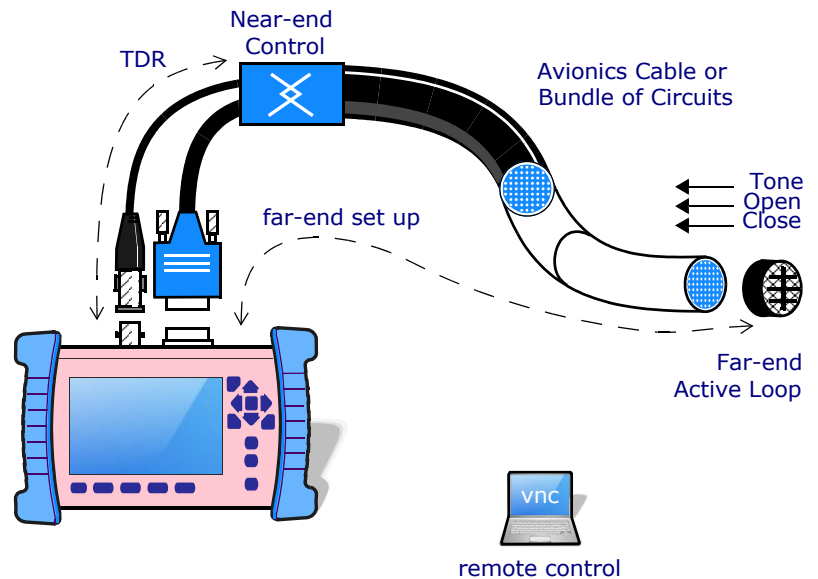
In order to satisfy the necessity of TDR in special cables made of two or any number of conductors, ALBEDO has developed a technology consisting in two adapters the Near-end adapter and the Far-end Active Loop adapter.



TRANSMISSION CABLE TEST



POWER AND TELECONTROL CABLE TEST



Functional Specs

TDR	
Interfaces	<ul style="list-style-type: none"> BNC (coaxial) RJ45 (twisted pairs) Customer defined
Input Impedance	<ul style="list-style-type: none"> BNC 50 Ohm RJ45: 100 Ohm Customer cable: undefined
TDR	<ul style="list-style-type: none"> Stimulus: Impulse Amplitude: 3 V Impulse width: 100 ns Stimulus Repetition Rate: 300 KHz Step Resolution in free space: 100 mm
Functions	<ul style="list-style-type: none"> Opens, shorts, splitters, high resistance, bandwidth, impedance
Operation	<ul style="list-style-type: none"> Sequential test for each n pairs

Features	
Customizable	<ul style="list-style-type: none"> Type of cable from two to n conductors
Cable Fault	<ul style="list-style-type: none"> Customer cable wiremap RJ45 cable d > 100 m Coaxial cable d > 100 m
ESD protection	<ul style="list-style-type: none"> BNC: IEC 61000-4-2* Level 4: ± 12 kV RJ45: 1500 Vrms / 0.5 mA / 60 s
Max Non-Destruct Voltage	<ul style="list-style-type: none"> BNC: ± 325 Vdc RJ45: ± 3000 Vdc
Max Input Pulse Voltage	<ul style="list-style-type: none"> +5 Vp

(*)Standard test condition is IEC61000-4-2 level 4 test circuit with each (AOUT/BOUT) pin subjected to ± 12 kV contact discharge for 1000 pulses. Discharges are timed at 1 second intervals and all 1000 strikes are completed in one continuous test run.

Platform	
Hand-held Instrument	<ul style="list-style-type: none"> Touchscreen 480 x 272 TFT, Mouse, USB & Ethernet ports; 1.0 kg, 223 x 144 x 65mm; IP-54 Soft LEDs All events at a glance Rechargeable Batteries continuous working up to 12 hours continuous operation. Fast recharging time AC Power Adapter Input: 100 ~ 240 V AC, 50/60 Hz Operating Temperature 0°C ~ 50° C, Storage Temperature -20°C ~ 70°C, Humidity 5% ~ 95%; IP rating 54 SNMP, MIB and VNC remote control



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