

## **OVERVIEW**

Included with the MSO-3M cable shipment are the following:

- Qty 1 - 18 channel 3M connector cable
- Qty 1 – MSO-3M Instruction sheet (this document)

## **OPERATING ENVIRONMENT**

Before using the MSO-3M cable, ensure that its operating environment will be maintained within these parameters:

Temperature:	5 to 40 °C
Humidity:	≤ 80% RH (non-condensing)

## **SAFETY REQUIREMENTS**



### **CAUTION**

To avoid personal injury or damage to the MSO-3M or any equipment connected to it, review and comply with the following safety precautions.

- **Use only as intended.** The MSO-3M cable is intended to be used only with LeCroy MS-250, MS-500 or MS-500-36 Mixed Signal Oscilloscope options. Use of the MSO-3M and/or the equipment it is connected to in a manner other than specified may impair the protection mechanisms.
- **Connect and disconnect properly.** Avoid damage to cables thru excessive bending. When disconnecting the MSO-3M cable from the MS-250, MS-500, MS-500-36 or Device Under Test NEVER pull on the blue wires, pull only the black plastic housing.
- **Do not use in wet/damp or explosive atmospheres.**
- **For indoor use only.** The MSO-3M cable and associated test equipment is intended for indoor use and should be operated in a clean, dry, environment.
- **Do not operate with suspected failures.** Do not use the product if any part is damaged. All maintenance should be referred to qualified service personnel.

## **BASIC OPERATION**

### **Connecting the MSO-3M to the MS-250 or MS-500**

- Connect the end of the cable labeled D0 – D17 to the corresponding input of the MS-250 or MS-500 labeled D0 – D17 and fasten thumb screws

Note: MS-500 can be operated in 36 channel mode by using two MS-3M cables however both MSO-3M cables will be labeled D0-D17.

### Connecting the MSO-3M to the Device Under Test

- The MSO-3M cable mates with the following 3M Through-Hole 2500 series connectors

2520-6002 (straight)  
2520-5002 (right-angle)

*Looking into the 3M Connector:*

Connector Pin #	1	3	5	7	9	11	13	15	17	19
	NC	D16	D14	D12	D10	D8	D6	D4	D2	D0
	D17	D15	D13	D11	D9	D7	D5	D3	D1	Gnd
Connector Pin #	2	4	6	8	10	12	14	16	18	20

### **SPECIFICATIONS**

Input Impedance	100 k $\Omega$
Attenuation	10:1
Maximum Input Voltage	$\leq 30$ V <sub>pk</sub>

*All specifications are for the MSO-3M cable used with the MS-250, MS-500 or MS-500-36*

