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ZMI™
Cable Guide

OMP-0333M

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For help within North America, please use the contacts listed below. For help in other countries, please contact your local Zygo Corp. representative. Be sure to supply the instrument model and serial number, and the software version.



PHONE Monday - Friday, 8 a.m. - 5 p.m. (Eastern Standard Time)
(800) ZYGO NOW (800) 994-6669
or (860) 704-5191



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Attn: Customer Support

MANUAL REVISION INFORMATION

The document (OMP) number and the applicable revision letter for this manual appear on the title page. The publication date appears below.

Revision	*Publication Date*	*Revision*	*Publication Date*
original	July 1992	G	May 2000
B	December 1993	H	October 2002
C	December 1994	J	December 2003
D	April 1997	K	October 2008
E	September 1997	L	October 2010
F	August 1998	M	November 2011

MANUAL NOTATIONS



Warning! Denotes a hazard that could cause injury to personnel, and can also cause damage to the equipment.



Note provides helpful information.

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ZMI CABLE GUIDE

ZYGO's ZMI products are structured as "building-blocks". From the optical components to the circuit boards, to the cables, products can be selected to suit your particular application.

In this cable guide, you'll find overview drawings to help you select and identify the cables you need. For specific information about a particular cable, refer to the detailed specification pages.

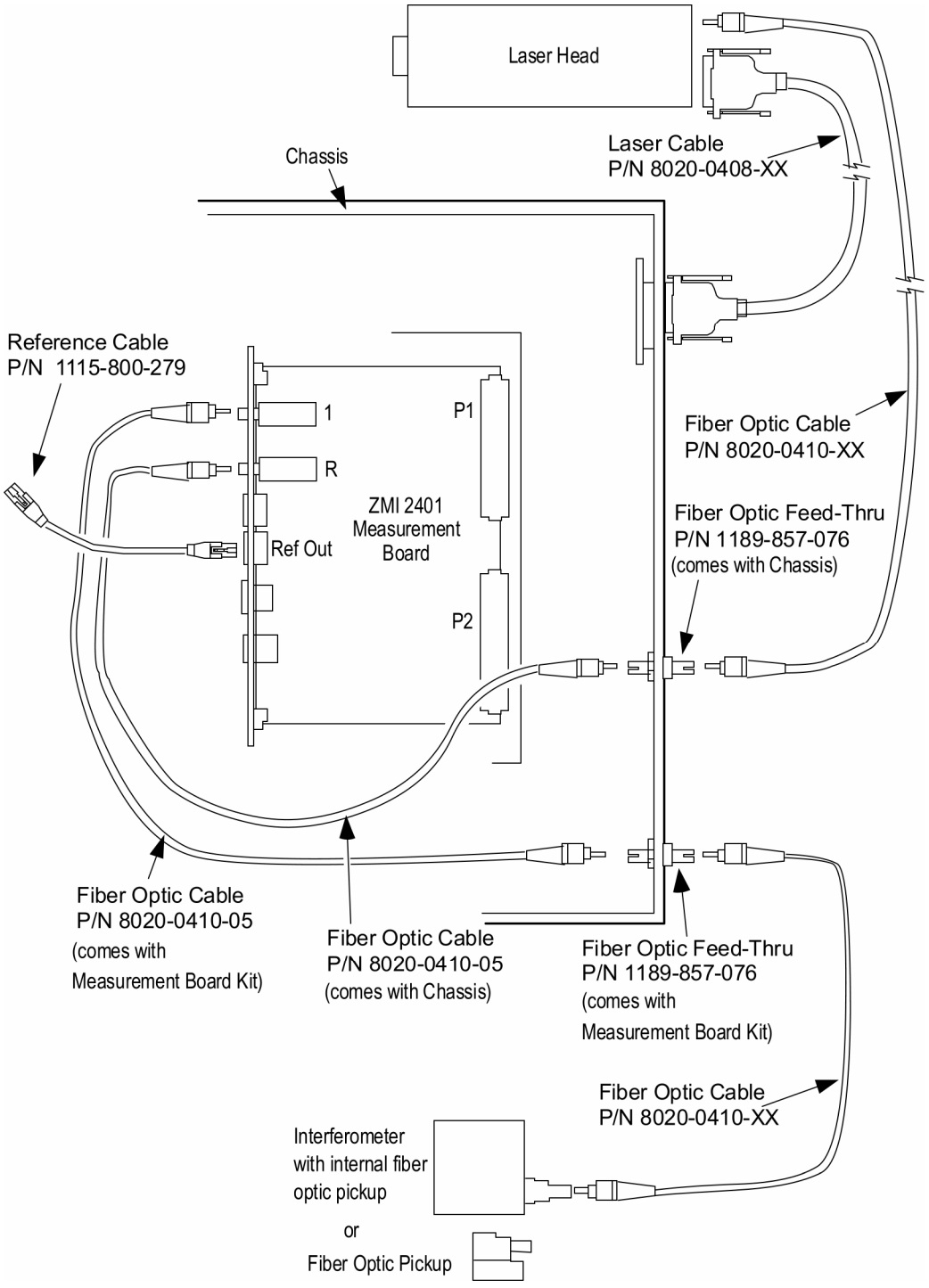
If you have questions or additional cabling requirements please contact your ZYGO representative.

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ZMI System Chassis Based System Cables

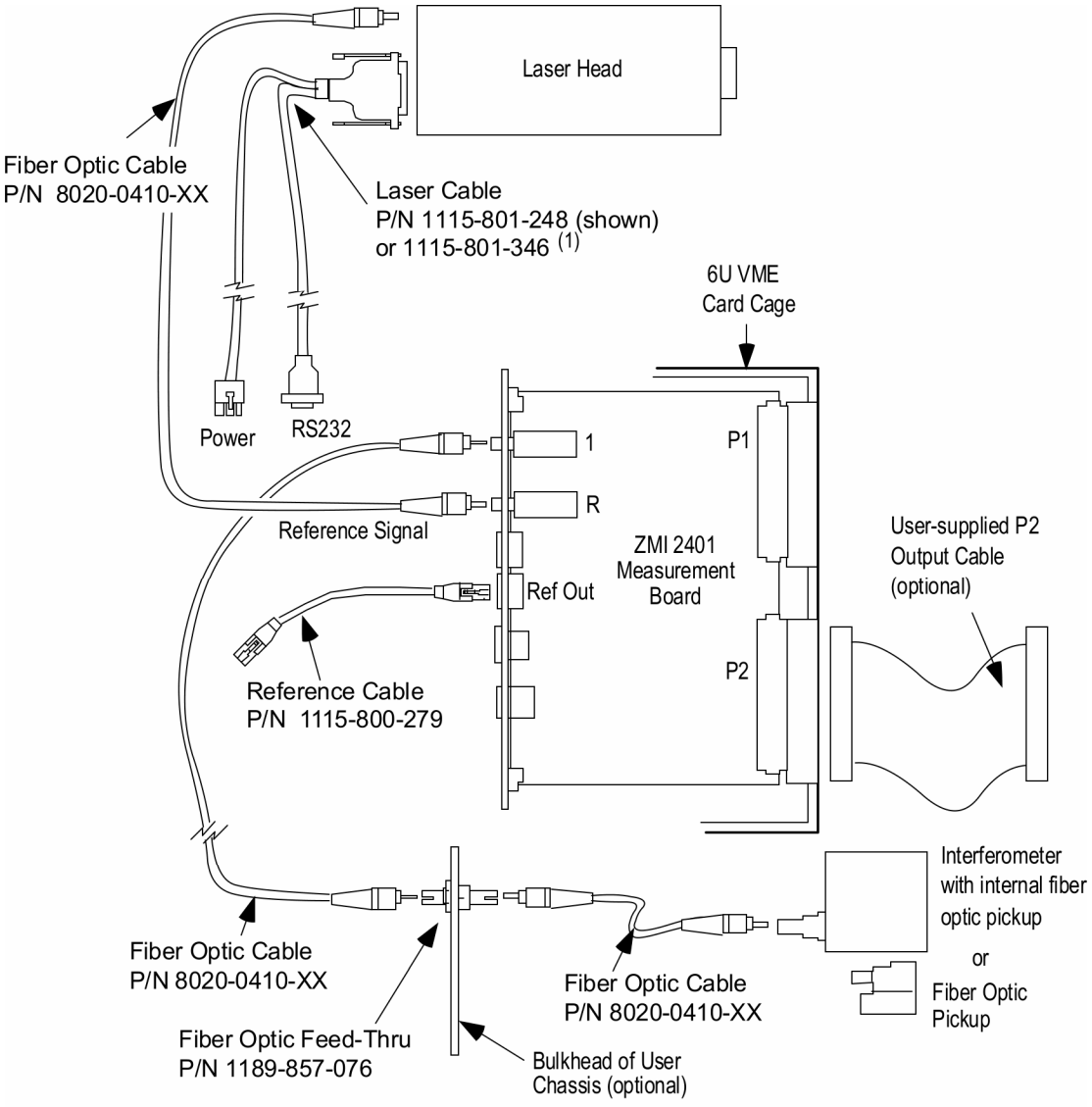
For use with ZYGO Chassis (P/N 8010-0100-04/-05) and ZMI 2401 Measurement Board Kit (P/N 8020-0104-07).



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ZMI 2401 VME Backplane Based System Cables

For use with user-supplied VME backplane and ZMI 2401 Measurement Board Kit (P/N 8020-0104-01).

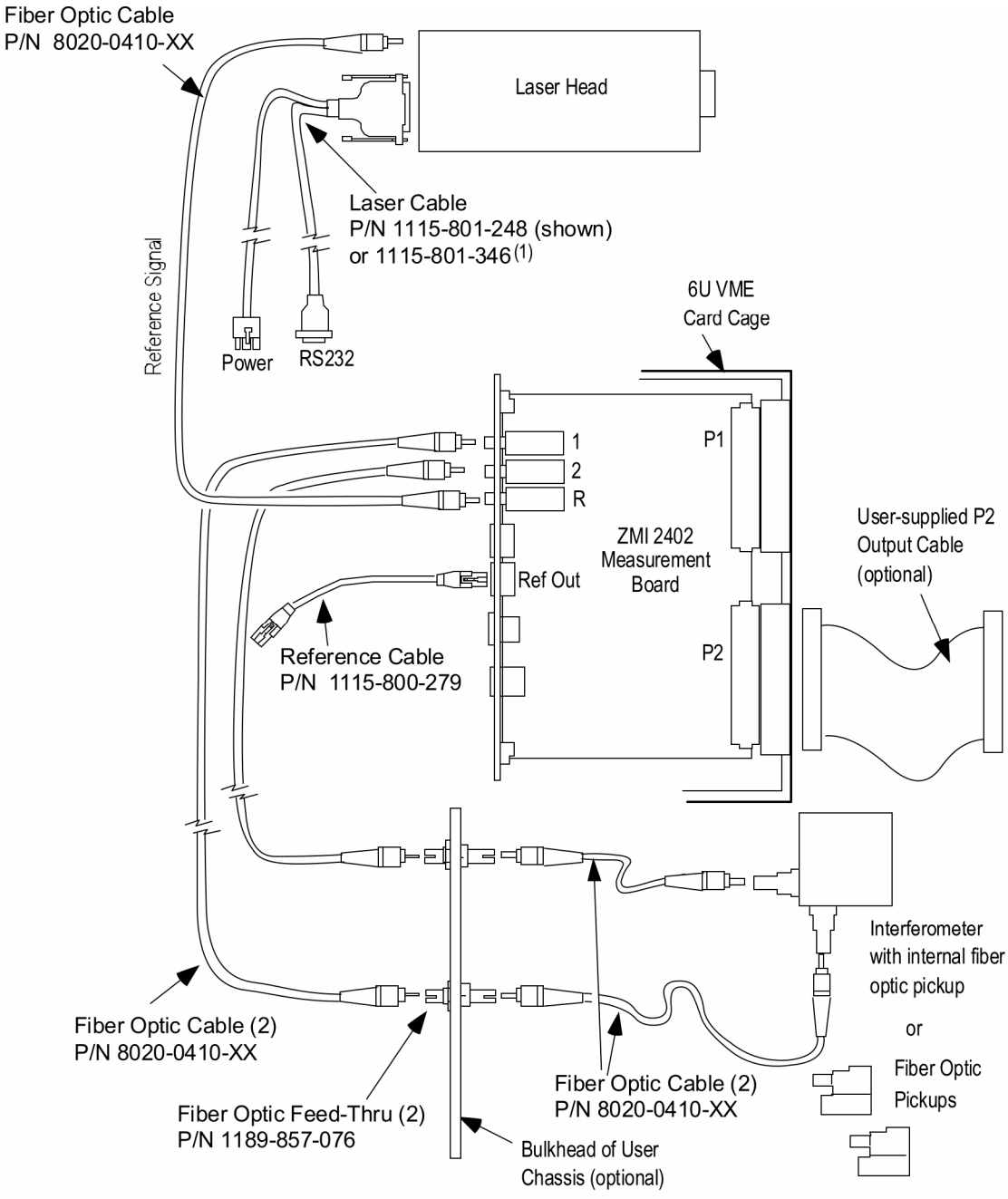


(1) Laser Cable 1115-801-346 connects to the Laser Power Supply (P/N 8010-0105-XX).

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ZMI 2402 VME Backplane Based System Cables

For use with user-supplied VME backplane and ZMI 2402 Measurement Board Kit (P/N 8020-0104-02).



(1) Laser Cable 1115-801-346 connects to the Laser Power Supply (P/N 8010-0105-XX).

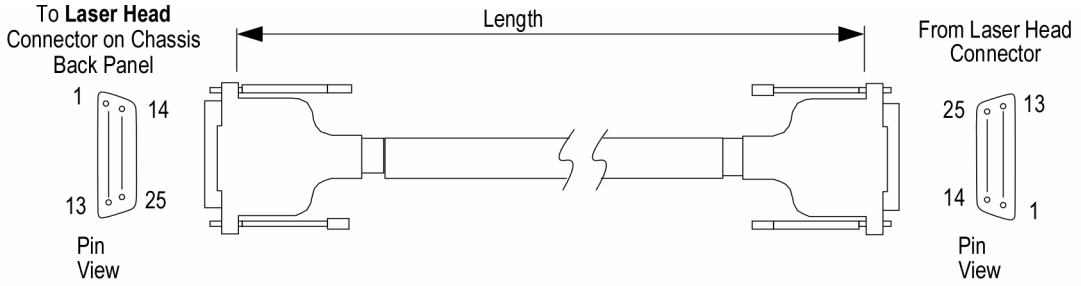
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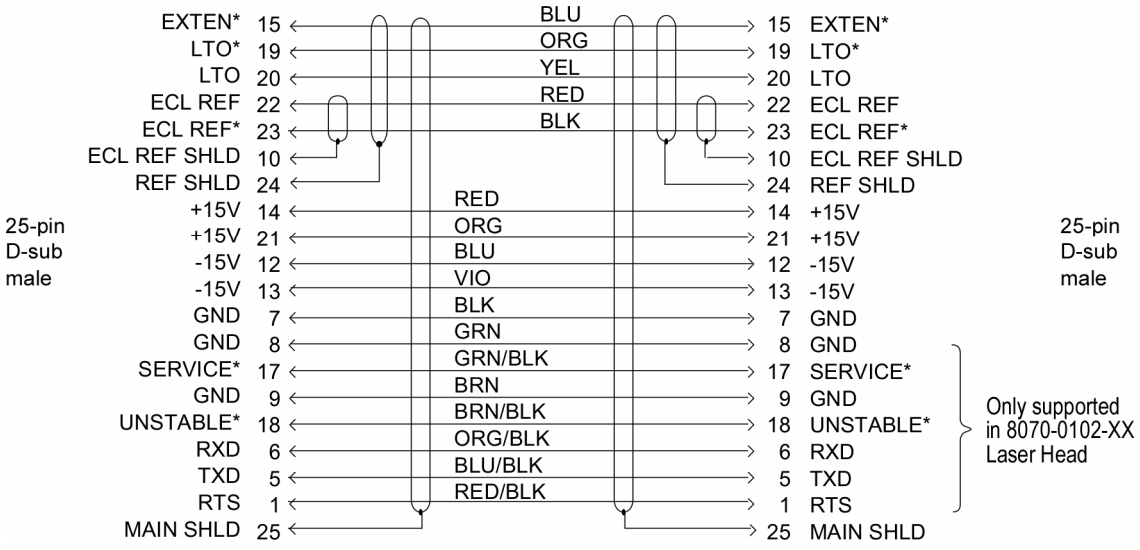
Laser Head Cable P/N 8020-0408-XX

For use with ZYGO Laser Heads and the ZMI System Chassis.

XX	Length
01	3 meters
02	5 meters

* Length tolerance is ±2%.

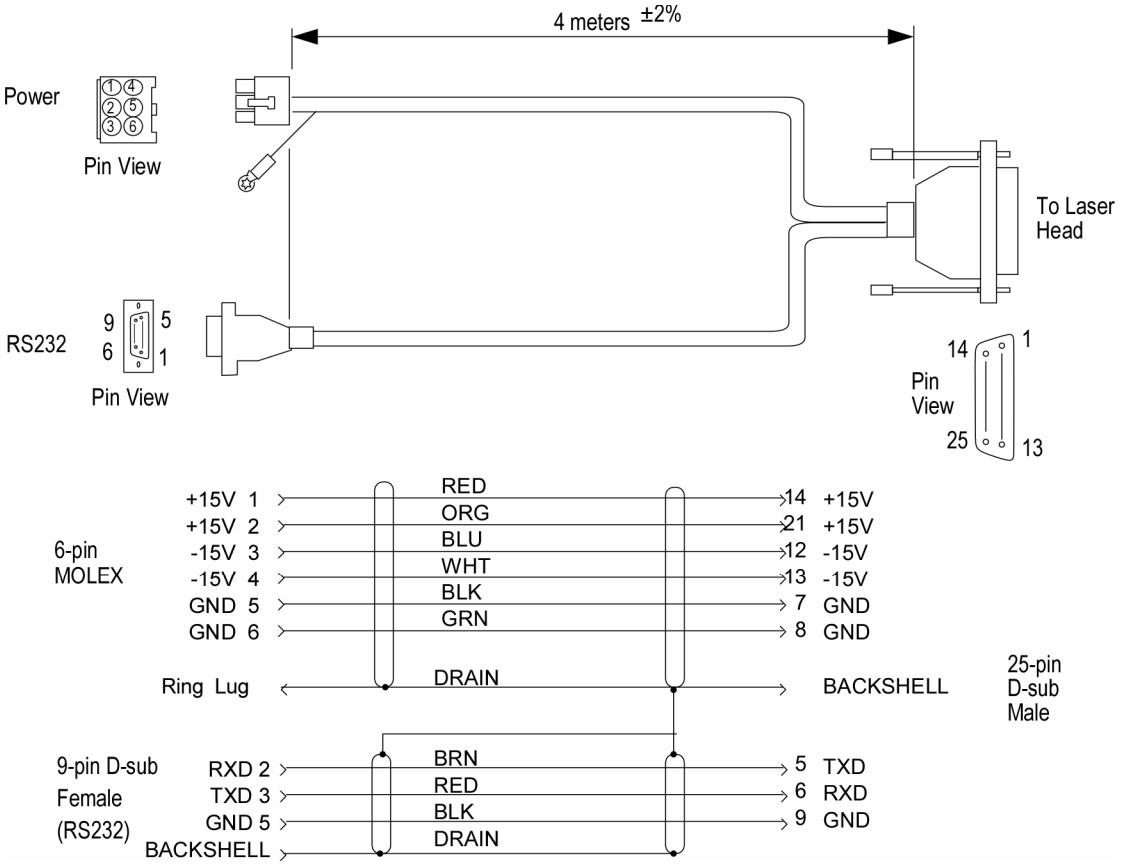




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Laser Head Cable P/N 1115-801-248

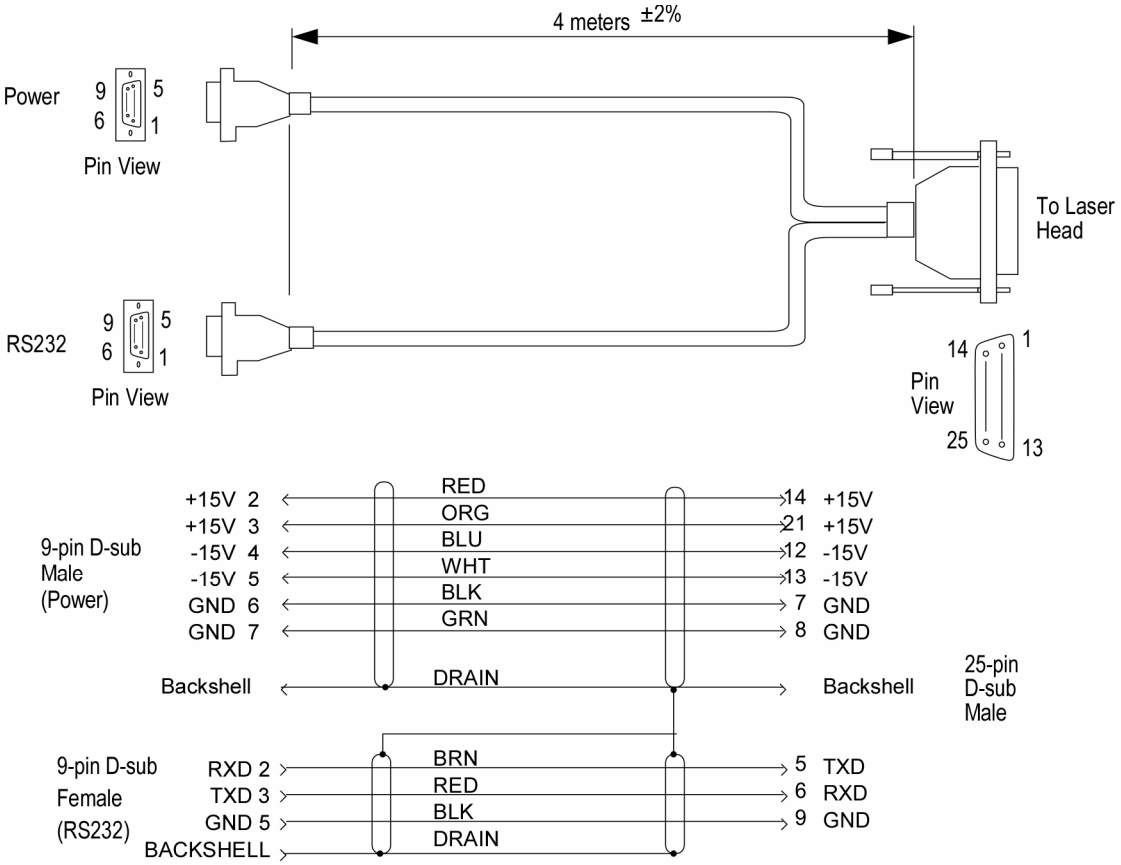
For use with ZYGO laser heads in a ZMI system with user-supplied chassis and backplane.



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Laser Head Cable P/N 1115-801-346

For use with ZYGO laser heads in user-supplied chassis and backplane. The power connector mates to the ZYGO Laser Power Supply (P/N 8010-0105-XX).



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Fiber Optic Cable P/N 8020-0410-XX

For use with ZYGO ZMI Measurement Boards.

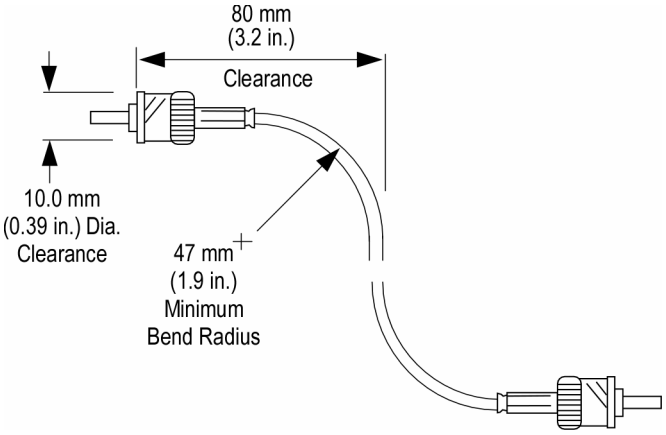
Size: 400 micron core, multi mode,
3.0 millimeter outside cable diameter.

Connectors: Male ST bayonet at both ends.

Cable Mechanical Specifications:
Minimum Bend Radius (short term): 29 mm
Minimum Bed Radius (long term): 47 mm
Connector Pull Strength: 15 lb

Environmental:
Operating Temperature: 0° to 70° C (32° to 158° F)
Non-operating Temperature: -20 to 80° C (-4° to 176° F)

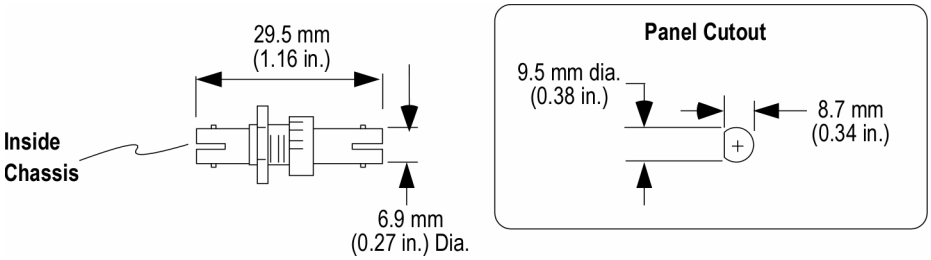
XX	Length	Tolerance
01	1 meter	-0%, +5%
02	3 meters	-0%, +5%
03	5 meters	±0.5%
04	10 meters	±0.5%
05	0.6 meter	-0%, +5%
06	20 meters	±0.5%
07	15 meters	±0.5%
14	6 meters	±0.5%
15	7.5 meters	±0.5%



Chassis Fiber Optic Feed-Thru P/N 1189-857-076

Used to interface two fiber optic cables through a bulkhead panel.

Efficiency: 80-90% typical

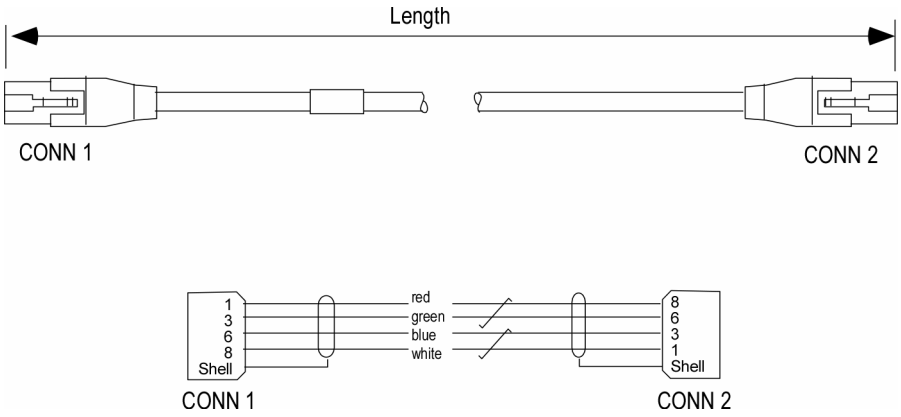


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Measurement Board Reference (HSSDC) Cable P/N 1115-800-279

Used to daisy chain the reference signal with ZMI 2400 and 4000 series Measurement Boards. The cable has HSSDC (high speed serial data connector) connectors.

P/N	Length	Tolerance
1115-800-279	250 mm	±15 mm



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