

81532A-01A

S E R V I C E N O T E

Supersedes:
81532A-01

81532A Power Sensor Module

Serial Numbers: 0000A00000 / 9999Z99999

Pilzferrule connector and Pilzferrule-style cable damage the lens of the power sensor

Parts Required:

P/N	Description	Qty.
-----	-------------	------

NONE		
------	--	--

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR: JM PRODUCT LINE: 3E

ADDITIONAL INFORMATION:

© AGILENT TECHNOLOGIES, INC. 2007
PRINTED IN U.S.A.

June 21, 2007



Agilent Technologies

Situation:

The 81531A, 81532A, and 81536A power sensors use a special connector with a lens interface to position the fiber end precisely to achieve very accurate power measurements from either a PC or a flat-angled connector. In this connector, there is a positioning sleeve to hold the end face at a known distance from the lens. However, if using a non-flat, Pilzferrule (mushroom ferrule), the fiber end hits the lens before the stop ring, (see fig 1).

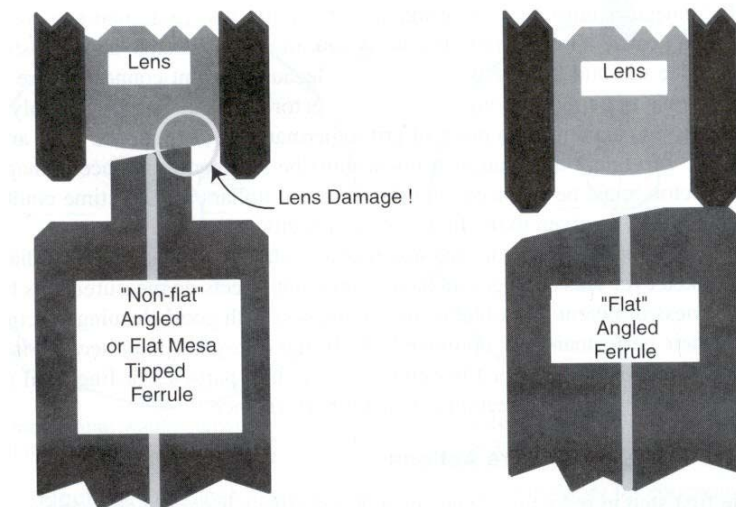


fig 1. Risk of lens damage when using a non-flat connector type.

A so-called Pilzferrule, has a raised core in the ferrule producing a mesa or button-top on the end face, (see fig 2).

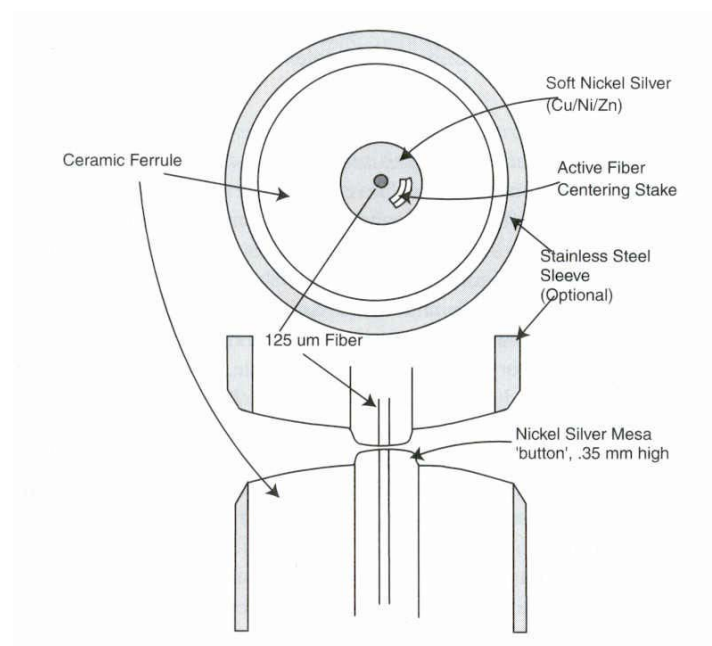


fig 1. Construction details of a PC Pilzferrule (mesa or button) connector.

Solution/Action:

DO NOT use non-flat type connectors, Pilzferrules types, with 81531A, 81532A, and 81536A power sensors.

For flat type connectors, pay attention to the following restrictions.

- ♦ For E-2000 type connectors use 81000PI instead of 81000HI connector interfaces, with 81531A, 81532A, and 81536A power sensors.
- ♦ For MU type connectors use 81002MI instead of 81000MI connector interfaces, with 81531A, 81532A, and 81536A power sensors.

Additional pay attention to the following restriction.

- ♦ For LC type connectors do not use 81531A, 81532A or 81536A. The 81002LI connector interface is not recommended for 8153xA power sensors. Instead of use the 8163xA/B power sensor series.

In the 8163xA/B power sensor series the lens is recessed. Thus, the fiber end cannot hit the lens before the stop ring and this problem does not apply.