

INFORMATION ONLY – DOES NOT COMMUNICATE  
A MODIFICATION OR SAFETY CONDITION

**81536A-01**

**S E R V I C E                      N O T E**

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Supersedes:  
NONE

**HP 81536A Power Sensor Module**

**Serial Numbers:** n/a

**Pilzferrule connector and Pilzferrule-style cable damages the lens of the power sensor.**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
NONE		

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION: <b>INFORMATION ONLY</b>
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ADDITIONAL INFORMATION:

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PRINTED IN U.S.A.



July 22, 2002

**Situation:**

The HP 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, Pilsferrule (mushroom ferrule), the fiber end hits the lens before the stop ring, (see fig 1).

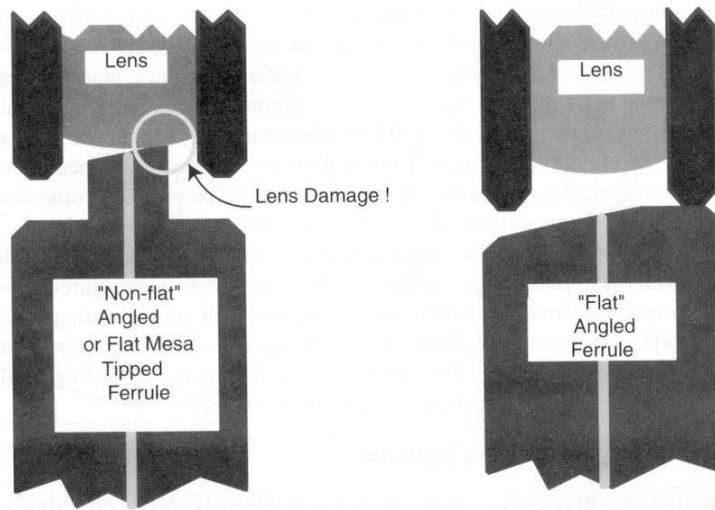


fig 1. Risk of lens damage when using a non-flat connector type.

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

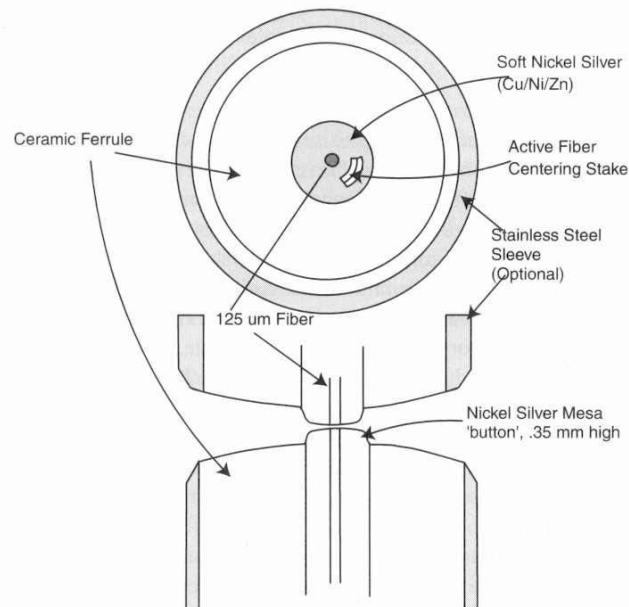


fig 1. Construction details of a PC Pilsferrule (mesa or button) connector.

**Solution/Action:**

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

For LC type connectors use 81002LI instead of 81000LI connector interfaces, with HP 81531A, 81532A, and 81536A power sensors.

For MU type connectors use 81002MI instead of 81000MI connector interfaces, with HP 81531A, 81532A, and 81536A power sensors.

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.