

1. General Information

The test adapter "option BN 2060/00.39" is used to connect Wandel & Goltermann fiber optics sources and optical attenuators to unterminated bare fibers. Detachable fiber connections can be made using this bare fiber adapter such as are needed for making measurements during the installation of fiber optics networks or for laboratory work. All fiber types with a cladding diameter of 125 μm ¹⁾ and a secondary coating of 0.9 mm can be connected.

The connection can be made very easily. After preparing the fiber (stripping off the fiber jacket), fix it into the adapter base and cut it to the right length using the fiber cleaver (supplied with the adapter). By simply turning the adjusting screw the fiber end face can be precisely retracted so that good launching conditions are achieved and the internal fiber is not damaged. The adapter/fiber is then screwed onto the test adapter of the instrument just like a standard fiber optics connector. The instrument must be fitted with the DIN test adapter (option BN 2060/00.30). It is a good idea to make a few trial terminations using this operating manual in order to be able to make optimal use of the bare fiber adapter. You will then quickly learn the various steps required. With a little practice it is possible to make very reliable bare fiber connections with negligible insertion loss. Note that the type of fiber used also affects the quality of the connection. The equipment required to make the connection and to clean the adapter are included in option BN 2060/00.39 or can be found in the storage case. Standard stripping tools can be used to remove the fiber jacket.

1) e.g. 9/125, 50/125, 62.5/125, 85/125 μm

2. Bare fiber adapter set with storage case

2.1 Test adapter components

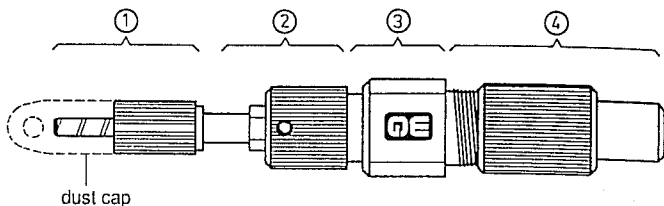


Figure 1 Bare fiber adapter

- ① DIN connector
 - for matching to the instrument (DIN adapter option BN 2060/00.30)
 - micro-hole for centering the fiber
- ② Precision adjusting screw for precise axial movement of the fiber
- ③ Base
- ④ Clamping screw with guide sleeve for fixing the fiber jacket (secondary coating) in the internal chuck

2.2 Contents of the storage case

- a) Bare fiber adapter
- b) Fiber cleaver for lightly scratching the fiber
- c) Cleaning wire with holder for cleaning the micro-hole in the connector

- d) Folding magnifying glass (8 x),
for inspecting the position of the fiber
- e) Box containing
 - threader to help insert the cleaning wire
 - spare cleaning wires
- f) Allen key
for dismantling the connector (for cleaning purposes)
- g) Recess for box
(DIN adapter option BN 2060/00.30)

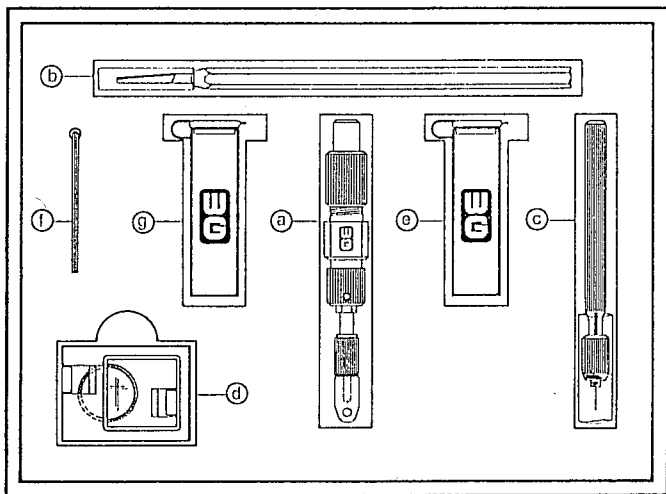


Figure 2 Bare fiber adapter set (option 2060/00.39) with storage case