

Application Note

Fiber SMA Connectors

Keywords

Connectors, Fiber optic, SMA, Type 905, Type 906

Summary

Type 905 and Type 906 SMA (e.g. Amp FSMA) connectors shall not be mixed; they are incompatible with the opposite type. Additionally, the Type 906 requires one of two ferrule sleeves, depending on the application.

Scenario

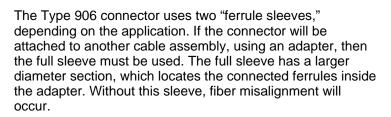
Customer purchased two sets of cable assemblies: one with Type 905 connectors, the other with Type 906 connectors. The customer complained about intermittent links, while using the cables.

Question

What connectors should he use with the old equipment, which exists in a reclaimed facility?

Notes/Answer

The two, connector types do not work with each other. The Type 905 connector *looks* like a normal FC connector, except it has a stainless steel ferrule. The Type 906 connector is similar, except for two ferrule features. The 906's ferrule diameter is slightly smaller, and it has a step cut at the end of the ferrule (see diagrams).



The half sleeve is used when the Type 906 connector is mated to a transmitter or receiver.

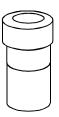
Note: Amp suggests, that the Type 905 connector be used, unless a Type 906 is already used.



Type 905



Type 906



Type 906 with Full Sleeve



Type 906 with Half Sleeve