

The image features a collection of fiber optic cables and connectors. In the foreground, a large, detailed view of a silver-colored metal connector with a threaded section is shown. Behind it, several thin, flexible fiber optic cables in various colors (yellow, blue, orange, and light blue) are arranged in loops. Another smaller connector is visible in the lower right corner. The background is a plain, light-colored surface.

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BAE Systems plc is a British multinational arms, security, and aerospace company. Using their advanced defence technology to protect people and national security, keeping critical information and infrastructure secure.

## Problem

Existing multi pin connectors were made of both copper and fibre making them difficult to clean effectively due to the vulnerability of the parts. Harsh environments experienced by the Typhoons mean they are vulnerable to dirt and contamination spreading to the end of the ferrule. When mating and unmating, the end face of fibres get dirty which can cover the diameter of the fibre optic, which reduces or stops the transmission.

## Solution

To design an inspection and cleaning kit for all fibre optics used within the Typhoon Fighter jet. Educate and training of the maintenance support personnel of the need to inspect and clean the end face of the fibres each time they mates and un-mate connectors.



## Features

- ▶ Microscope to inspect termini end faces for debris or damage.
- ▶ Can be used with both singlemode and multimode fibres.
- ▶ Designed for military multiway ferrule connectors.
- ▶ No need to remove termini/ferrule from connector, saving time and minimising the risk of damage.
- ▶ Prototypes manufactured, tested approved and ordered for multiple kits in use across Saudi Arabia with stock holding agreement for immediate shipping worldwide.
- ▶ Angled cleaning available for difficult to reach places, designed to clean fibre optic patchcords, pigtailed and adapters of all types.

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