

# ARGUS® Enhancement: Fiber Inspection Tool

## Fiber Inspection Tool (FIT)

Even the smallest soiling or damage in the end zone and especially in the core area of optical fibers can lead to problems and errors. They can significantly increase attenuation and quickly cause high losses, which later become noticeable in the bandwidth. Just touching the connector with a finger, leaving it lying around in an unplugged state or high humidity is enough to cause this. Therefore, cleanliness is the top priority when commissioning and maintaining fiber optic connections. Before each plugging process, the plug and socket should be checked with an inspection tool and cleaned in case of contamination.

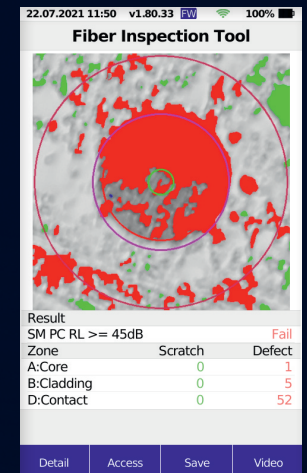
The Fiber Inspection Tool is a USB video microscope for the ARGUS® for optical fiber inspection that detects scratches and defects on optical fibers. A Software analyzes the current video image in the background and detects defects such as scratches or particles with a size of 0.5 µm in the individual zones: Core, cladding, adhesive and contact. These are clearly displayed in a table.

### Further functions:

- manual Focusing with separate button
- optional: Autofocus
- digital Zoom
- Pass /Fail evaluation according to IEC 61300-3-35
- min. Particle Size 0.5 µm
- different Tips /Adapters included in delivery
- PC, UPC, APC, others on request
- Single Mode / Multi Mode
- Max. resolution of the camera: 1600 px x 1200 px (approx. 2 MP)
- Field of view: 680 µm x 510 µm
- LED to illuminate the fiber end zone



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testing the telecom network



Video image with zone analysis

Zone	Defect	Count
A: Core Defect 0 µm - 25 µm	0	0
Not allowed	0	0
B: Cladding Defect 25 µm - 115 µm	2	2
No limit < 2 µm	0	0
5 between 2 µm and 5 µm	2	2
Not allowed > 5 µm	0	0
C: Adhesive Defect 115 µm - 135 µm	0	0
No limit	0	0
D: Contact Defect 135 µm - 250 µm	64	64
Not allowed > 10 µm	6	6
A: Core Scratch 0 µm - 25 µm	0	0
Not allowed	0	0
B: Cladding Scratch 25 µm - 115 µm	0	0
No limit <= 2 µm	0	0
Not allowed > 3 µm	0	0

Overview table: core, cladding, adhesive, contact

Available for:



**intec**

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Expand your ARGUS® now with the Fiber Inspection Tool and its related option: **Fiber Inspection Option**: Art. no.: 030094 (ARGUS® 300) / Art. no.: 026094 (ARGUS® 260) / Art. no.: 024094 (ARGUS® 240) / **Fiber Inspection Tool**: Art. no.: 030095 / **Fiber Inspection Tool with Autofocus**: Art. no.: 030096

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