

AVoptics Ltd is an authorised distributor for:



Proton™ Polisher - Hand held field polisher

Production performance is now available in field environments in the form of Proton™. Though portable and battery operated, the Proton™ can consistently achieve single-mode UPC and APC finishes. Proton™ incorporates Independent Suspension (IS) and optically aligned work-holders.

Proton™ has been conceived for true hand-held operation. Connectors can be loaded, polishing pressure set and films changed-out without the need of a table, workbench or external support. Proton™ can polish connectors sideways and at most orientations, permitting access to cabling in the tight confines, such as inside vehicles, avionics bays, and other previously inaccessible places.

This unique design makes Proton™ the ideal choice for all field networks such as fibre to the home, shipboard/aircraft, CATV and LAN. Whether the application is a new installation, connector repair or even R&D efforts, the Proton™ provides the required performance.



Features and Benefits

- Production Performance in the Field
- Single workholder supports all termini sizes from 1.25 to 3.2mm
- Complete hand held / single operator operation
- No external power requirements
- Lightweight and works in any attitude
- Exceeds Telcordia standards
- Independent suspension work-holders
- Process takes typically only 3 minutes.

Technical Details:

Optical Performance¹

Back Reflection
 < -60 dB, UPC
 < -65 dB, APC

Insertion Loss
 < 0.25 dB, typical

Polishing Performance²

Apex Offset
 < 50 microns, maximum
 < 15 microns, typical

Radius of Curvature
 10-25 mm, 2.5 mm ferrules
 7-20 mm, 1.25 mm ferrules
 5-12 mm, APC ferrules

Undercut/Protrusion³
 0 to -50 nm

Operational

Connector Support
 All industry standard, Mil-spec and custom connectors/termini

Process Time⁴
 New termination: 2 min.
 Connector repair: < 1 min.

Polishing Pressure
 Adjustable, linear displacement

Cycle Timing
 User adjustable

Polishing Motion
 Random orbital

Power
 9 volt alkaline / AC adapter

Weight
 820g (Body)

¹ Optical performance may vary between connector /fibre manufacturers.

² Polishing performance meets and exceeds Telcordia specifications, and can be optimized for specific applications.

³ Dependent upon radius of curvature

⁴ Singlemode UPC/APC finish

Ordering details:

Polisher Body	Main polisher body	AVT-024
Proton Work-holder	2.5mm universal ferrules	AVT-025-UNV
Work holders for specific and angled polished connectors are available , please ask for further details		
Polishing films	Kit (50-100 termini) 12µm Aluminium Oxide 9µm Silicon Carbide 6µm Diamond 3µm Diamond 3µm Silicon Carbide 1µm Diamond XW Final Polish	AVT-026 AVT-154-0A-P-4 (Qty 25) AVT-154.09-0S-P-2 (Qty 50) AVT-154.06-0D-P-2 (Qty 25) AVT-154.03-0D-P-2 (Qty 25) AVT-154-03-0S-P-2 (Qty 50) AVT-154-01-0D-P-2 (Qty 25) AVT-154-00-XW-P-2 (Qty 100)

AVoptics Ltd also provides:



Termination and Field Repair Kits



Tooling solutions



Polishing Equipment



Optical and Electrical Harnesses



Training and Consultancy