

# IMM PHOTONICS – OPTOELECTRONIC COMPONENTS

**engineered for your success**

IBC™ Brand Cleaner



Optipop



## OUR PRODUCT GROUPS



## MAXIMUM PRECISION – FROM STANDARD TO INDIVIDUALLY DEVELOPED PRODUCTS

IMM Photonics produces innovative optical and optoelectronic components and modules for a diverse range of technological fields – from measuring technology and analytics, biophotonics and medical devices to optical data transfer and security engineering.

What makes our portfolio special: Our **standard products** in laser technology, fibre optics, UV & UVC and optics can be refined on request and tailored to the customer's specific needs. We also produce complete **individual solutions** to meet our customers' budgets and deadlines as well as the high quality standards they demand. Both types of product can be easily integrated into existing customer systems.

## IMM PHOTONICS – EXPERTISE SINCE 1992

With our well established presence on the market, for more than 30 years we at IMM Photonics have provided trust-based and successful support to customers from a range of technological fields with the production of innovative components and modules. Our standard optical and optoelectronic products are produced in-house at our two German business locations and by selected partner manufacturers – for truly high-tech products made in Germany.



## IBC™ Brand Cleaner LC, SC

Patented fibre optic cleaner (US Conec) for cleaning SC, FC, ST and LC connectors. The cleaning pin turns while the cleaning band is drawn over the fibre end surface. This ensures that the fibre end surface is left clean after a single cleaning operation.

Art. No.	IBC™ Brand Cleaner SC 743000063	IBC™ Brand Cleaner LC 743000062
Number	9392	9393
Description	IBC™ Brand Cleaner SC for 2.5 mm connectors - SC, FC and ST for UPC and APC polishes	IBC™ Brand Cleaner for LC- and MU-fiber connectors with 1.25 mm ferrules, for PC/APC polishes
Environmental properties	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 <°C	

## APPLICATIONS

- Fiber network panels and assemblies
- Outdoor FTTX applications
- Cable assembly production
- Test laboratory
- Servers, switches, routers and OADMS with SC, FC, ST and LC interface

## FEATURES

- Easy pushing motion engages connector and initiates cleaning
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibres are densely stranded and debris free
- Cleaning system rotates 180° for a full sweep
- Extendable (27 mm) tip reaches recessed connectors
- Audible click when fully engaged
- Proven effective at removing (Test reports available): Arizona Road Dust, Dryer Lint, Graphite - Post Mate, Distilled H2O Residue, NaCl Residue, Skin Oil, Graphite - Pre Mate, 70 % IPA Residue, Hand Lotion, Vegetable Oil

## NOTES

Compliant with RoHS-requirements (2011/65/EU from June 8, 2011).  
The above product specifications are subject to change without notice.  
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## IBC™ Brand Cleaner M250



Patented fibre optic cleaner (US Conec) for cleaning 2.5 mm connectors such as SC, FC, ST for UPC and APC connectors. The cleaning pin turns while the cleaning band is drawn over the fibre end surface. This ensures that the fibre end surface is left clean after a single cleaning operation.

<b>Art. No.</b>	7430000158
<b>Number</b>	13310
<b>Description</b>	IBC™ Brand Cleaner for M250 for 2.5 mm connectors - SC, FC and ST for UPC and APC polishes
<b>Environmental properties</b>	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C

## APPLICATIONS

- Fiber network panels and assemblies
- Outdoor FTTX applications
- Cable assembly production
- Test laboratory
- Servers, switches, routers and OADMS with SC, FC, ST and most hardened 2.5 mm connectors in harsh environment applications incl. Mil DTL 83526

## FEATURES

- Easy pushing motion engages connector and initiates cleaning
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibres tape with improved absorbency
- 1.8 mm synthetic, microfiber woven cloth, debris free
- Cleaning system rotates 180° for a full sweep
- Audible click when fully engaged

## NOTES

Compliant with RoHS-requirements (2011/65/EU from June 8, 2011).  
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## IBC™ Brand Cleaner MPO

Patented fibre optic cleaner (US Conec) for cleaning MPO connectors. The cleaning pin turns while the cleaning band is drawn over the fibre end surface. This ensures that the fibre end surface is left clean after a single cleaning operation.

<b>Art. No.</b>	<b>7430000172</b>	<b>7430000082</b>
<b>Number</b>	7104	8037
<b>Description</b>	IBC™ Brand Cleaner for MPO style connectors (Verizon PID #11039451)	IBC™ Brand Cleaner for HBMT™, ARRAY & MPO style connectors

## APPLICATIONS

- US Conec MTP® Brand MPO style connectors
- MPO style cassette modules and cable assemblies
- Parallel optics transceivers
- Outdoor hardend MT ferrule based connectors
- HBMT™ connectors
- Molex ARRAY™ connectors (6 & 8 port)

## FEATURES

- Easy pushing motion engages connector and initiates cleaning
- Cleans both male and female MT ferrule based connectors
- 600+ cleanings per unit
- Cleaning cloth made from high density woven micro fibers
- Cleaning cloth is washed and debris free
- Adapter tip is supplied with 7104 for cleaning unmated MPO style connectors

## NOTES

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## Reel Cleaner, Pip Cleaner, Stick Cleaner

The OPTIPOP series of fibre optic cleaners can clean optical fibre ends regardless of connector type. After each cleaning operation, the fibre cloth moves to make a clean section of cloth available for the next cleaning operation.

Cassette Cleaners	Art. No.	Description (400+ Cleanings)
Number 6227	743000064	Reel Cleaner, suitable for all connector types except male MT connectors
Number 6226	743000071	Reel Cleaner, suitable for MT's (with guide pins), such as male MPOs
Number 8057	743000073	Reel Cleaner, suitable for single fiber hardened connectors, such as OptiTap®
Number 6228	743000072	Reel Cleaner, suitable for male MT-RJ ferrules
Number 6232	743000067	Reel Cleaner, Refills (pack of six)

Stick & Pip Cleaners	Art. No.	Description
Number 7892	743000078	1.25 mm stick cleaner for bulkhead & transceiver apps; LC/MU connectors (Qty=250)
Number 7893	743000079	2.50 mm stick cleaner for bulkhead & transceiver apps; SC/ST/FC (150 mm long-Qty = 250)

## APPLICATIONS

- FTTX work sites installing OptiTap™ drop cables
- Data center installation and preventive maintenance
- Central office and head end new equipment installations and preventive maintenance
- Production facilities that terminate fiber optic cable assemblies
- Testing and measuring laboratory using optoelectronic equipment
- Any application that uses unmated fiber optic connectors

## FEATURES

- Eliminates electrostatic charge
- The washed, ultra clean micro-fiber cloth captures debris and other contamination
- The cloth is robust, it does not fray or leave any fibrous materials behind
- The most cost effective high-end cleaning solution available
- Recommended by the leading optical networking companies

## NOTES

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## IBC™ Brand Cleaner Zi 125, Zi 25

Patented fibre optic cleaner (US Conec) with a short design for cleaning SC, FC, ST and LC connectors. After each cleaning operation, the fibre cloth moves to make a clean section of cloth available for the next cleaning operation.

Art. No.	IBC™ Brand Cleaner Zi 125 7430000160	IBC™ Brand Cleaner Zi 25 7430000161
Number	13965	13964
Description	IBC™ Brand Cleaner Zi 125 for 1.25 mm connectors - LC, LC secure key and MU for UPC and APC polishes	IBC™ Brand Cleaner Zi 25 for 2.5 mm connectors - SC, FC secure key and ST for UPC and APC polishes
Environmental properties	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C	

## APPLICATIONS

- Best to be applied in narrow space situations when standard 180 mm sized cleaning tools are impractical to use
- Fiber network panels and assemblies
- Outdoor FTTX applications
- Cable assembly production
- Test laboratory
- Servers, switches, routers and OADMS with SC, FC, ST and LC interfaces with UPC or APC polishes

## FEATURES

- Small: long axis 112 mm
- Zipper (67 cm life line), clip may attach to work clothes - pre-vents losing the small tool
- Easy pushing motion engages connector and initiates cleaning
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibres are densely stranded and debris free
- Cleaning system rotates 180° for a full sweep
- Audible click when fully engaged

## NOTES

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## IBC™ Brand Cleaner LC2 DUPLEX



Patented fibre optic cleaner (US Conec) for cleaning LC duplex connectors. After each cleaning operation, the fibre cloth moves to make a clean section of cloth available for the next cleaning operation.

<b>Art. No.</b>	<b>7430000165</b>
<b>Number</b>	14303
<b>Description</b>	IBC™ Brand Cleaner for LC2 DUPLEX
<b>Environmental properties</b>	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C

## APPLICATIONS

- Cleans plug and socket of LC DUPLEX connectors (not for MU Connectors)

## FEATURES

- Easy pushing motion engages connector and initiates cleaning
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibres are densely stranded and debris free
- Cleaning system rotates 180° for a full sweep
- Audible click when fully engaged

## NOTES

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## IBC™ Brand Cleaner ODC

Patented fibre optic cleaner (US Conec) for cleaning 1.25 mm connectors such as ODC, URM for UPC and APC connectors. After each cleaning operation, the fibre cloth moves to make a clean section of cloth available for the next cleaning operation.

<b>Art. No.</b>	743000092
<b>Number</b>	12910
<b>Description</b>	IBC™ Brand Cleaner ODC for cleaning of plug and socket ODC, URM and other 1.25 mm ferrules for UPC and APC polishes
<b>Environmental properties</b>	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C

## APPLICATIONS

- Outdoor fiber connectors in FTTA (fiber to the antenna)
- URM-modules (EUROMICRON) in data centers
- Test laboratory
- Nearly all 1.25 mm ferrule based connector systems

## FEATURES

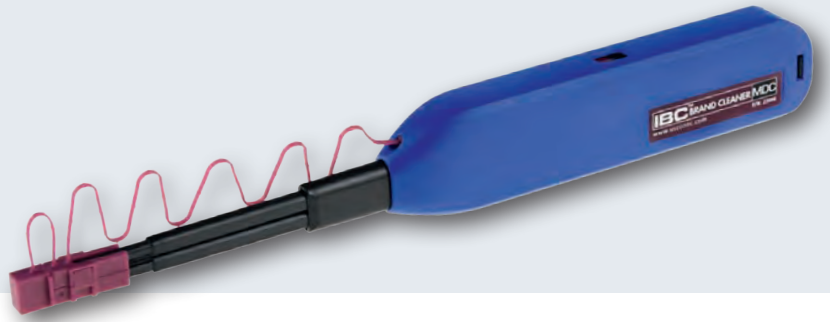
- Easy pushing motion engages connector and initiates cleaning
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibres are densely stranded and debris free
- Cleaning system rotates 180° for a full sweep
- Extendable (27 mm) tip reaches recessed connectors
- Audible click when fully engaged

## NOTES

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## IBC™ Brand Cleaner MDC



Patented fibre optic cleaner (US Conec) for cleaning MDC connectors. After each cleaning operation, the fibre cloth moves to make a clean section of cloth available for the next cleaning operation.

<b>Art. No.</b>	7430000212
<b>Number</b>	22046
<b>Description</b>	MDC connecto
<b>Environmental properties</b>	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C

## APPLICATIONS

- Cable assembly factories
- Field Installations: Cleaning cable assemblies
- Field Installations: Cleaning in-situ/behind the panel connectors
- Standards Compliance IEC-61300-3-35; IEC-TSB-XYZ

## FEATURES

- 525+ cleaning engagements per unit
- Anti-static system produces pristine endface and minimizes contaminant attraction
- Cleans cable assembly in hand as well as cables behind panel
- Non-fraying cloth design
- Simple push to clean action

## NOTES

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## IBC™ Brand Cleaner M20 / M16

IBC™ Brand Cleaner M20 is a patented fibre optic cleaner (US Conec) for cleaning SMTPE 304M, TERMINI, LEMO MH series and MIL-28876 connectors.

IBC™ Brand Cleaner M16 is a patented fibre optic cleaner (US Conec) for cleaning connectors that use 1.6 mm ferrules, such as M 38999 connectors. After each cleaning operation, the fibre cloth moves to make a clean section of cloth available for the next cleaning operation.

Art. No.	IBC™ Brand Cleaner M20 743000095	IBC™ Brand Cleaner M16 743000168
Number	12926	13309
Description	IBC™ Brand Cleaner for SMTPE304M, 2.0 mmTERMINI	IBC™ Brand Cleaner M16
Environmental properties	Crush resistance up to 45 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C	Crush resistance up to 40 lbs Impact resistance up to 6 feet Operating temperature range -10 °C to 60 °C

### APPLICATIONS FOR M20

- For harsh environment 2.0 mm based connector systems mostly used in broadcast and movie sector
- Cleans plug and socket TERMINI
- Cleans fiber optic ferrules in SMTPE 304M
- Cleans LEMO MH-series connectors
- Cleans MIL-28876 mostly used in NATO based navy ship-board communication systems

### APPLICATIONS FOR M16

- For harsh environment 1.6 mm based connector systems M 38999
- Cleans plug and socket TERMINI

### FEATURES

- Easy pushing motion engages connector and initiates cleaning
- Disposable with 525+ cleanings per unit
- Made from antistatic resins
- Cleaning micro fibres are densely stranded and debris free
- Cleaning system rotates 180° for a full sweep
- Extendable (27 mm) tip reaches recessed connectors
- Audible click when fully engaged

### NOTES

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## EXPERIENCE MEETS EXPERTISE IN INNOVATION

We have been developing, manufacturing and distributing optical and optoelectronic standard products and individual solutions for more than 30 years, working as a reliable and capable partner with customers from many industrial sectors. Need someone you can trust with a complex task? The full extent of our experience and expertise in innovation is at your disposal. We look forward to developing prototypes and batch products for you at our two production sites in Germany – in keeping with the highest technical standards and with outstanding support from our large network of partners.

You get the **benefit** of advice, development and manufacturing all from a single source, designed and made in Germany.



[imm-photonics.de](http://imm-photonics.de)

**IMM Photonics GmbH**

Ohmstrasse 4

85716 Unterschleissheim, Germany

Phone: +49 89 32 14 12-43

[sales@imm-photonics.de](mailto:sales@imm-photonics.de)