



Applications Engineering Notes

Document Title	US Conec Recommended PRIZM® LightTurn® Brand Multifiber Connector Production Equipment
Document Number	AEN-1818
Revision Number	1.3
Effective Date	April 10, 2019



1.0 Document Purpose:

The purpose of this document is to provide US Conec recommended equipment and consumables necessary for PRIZM[®] LightTurn[®] brand multifiber connector production.

2.0 Recommended Equipment and Consumables:

US Conec Provided Equipment and Consumables		
<u>Description</u>	<u>US Conec P/N</u>	<u>Comments</u>
US Conec Disposable Fiber Ribbonizing Die, 12 Fiber	14316	12 fiber only
LOCTITE [®] 4861 Instant Adhesive	14375	
US Conec Bare Ribbon Holder (12 fibers)	13923	Manufactured or CAH ribbonized fibers only
2.0mm Round MTP [®] Cable Holder with Fiber Stacker (12 fibers only)	13926	Non-ribbonized fibers ONLY (no ribbonization necessary)
Fiber Stacker to be used with P/N 13926 above	13928	
Ribbon Holder for 2.0mm Round Cable	13923	Ribbonized fibers only
Laser Fiber Cleaver for PRIZM [®]	20642	Includes: Keyence 3-axis CO ₂ Laser Marker Fixturing Computer Software



US Conec Provided Equipment and Consumables (continued)		
<u>Description</u>	<u>US Conec P/N</u>	<u>Comments</u>
AB9320 2-part Thermal Cure Epoxy	16874	Bi-Pak
30µm Silicon Carbide Film, 5" Disc, PSA	MTA-030-SMC-300	
US Conec PRIZM® LightTurn® Connector Custom Inspection Reticle	14451	
US Conec PRIZM® LightTurn® Connector Removal Tool	13709	
NEOCLEAN-PZ PRIZM® LightTurn® Connector Cassette Cleaner	14554	Refillable
Optipop® Male MPO/MTP® Reel Cleaner	6226	Refillable
Optipop® Female MPO/MTP® Reel Cleaner	6227	Refillable
Test Equipment 10 mm Detector Adapting Collar	14336	JGR MLT/MBR5 and JDSU RX3000
Test Equipment 5 mm and Integrating Sphere Detector Adapting Collar	14625	JDSU RX3000, JGR and JDSU Integrating Sphere
US Conec PRIZM® LightTurn® Connector Interposer Test Kit With Golden PRIZM® LightTurn® Connector Test Jumper	14415	<p style="text-align: center;">Kit Includes:</p> <p style="text-align: center;">Interposer Test Kit (P/N 14017) Interposer test base Interposer test body Spring force block Spring force tip Reference cap</p> <p style="text-align: center;">Interposer core (P/N 13602)</p> <p style="text-align: center;">Golden PRIZM® LightTurn® Connector Test Jumper (P/N 13779)</p>



Outside Vendor Provided Equipment and Consumables		
<u>Description</u>	<u>Vendor</u>	<u>Vendor Part Number</u>
Kevlar Scissors	Clauss Supply Co.	KC699
Fiber Optic Side Cutters	Techni-Tool Company	758-PL-018
Clauss WS-5 Cable Jacket Strippers	McMaster-Carr	7294K57
LOCTITE® 4861 PRISM® Adhesive	McMaster-Carr	74795A74
18 GA PPS .032 x .50 Plastic Needle Tip	Nordson EFD®	7018143 (5115PPS-B)
27-gauge 45° Bent Metal Needle Tip	Henkel Loctite	98268
	Nordson EFD®	7018404
3cc Syringes	Ellsworth Adhesives	301073
SafetyLok Syringe Cap	Nordson EFD®	7012198
Two-part Thermal Cure Epoxy	The Fiber Optic Center	AB9320-2.5G
Two-part Thermal Cure Epoxy	NextGen Adhesives	NGAC-P907-99
Two-part Thermal Cure Epoxy	NextGen Adhesives	NGAC-P907-100
Fixed Speed Centrifuge	Cole Parmer®	EW-17250-10 (115V)
		EW-83058-42 (220V)
Foam Wrapped Swabs	Chemtronics®	20050
TECHSPRAY Ultra Pure Duster	EIS Corporation	1671-10S
Kimwipes EX-L	Cole-Parmer	U-33670-00
MicroCare Sticklers® Fiber Optic Splice and Connector Cleaner	MicroCare Corporation	MCC-POC03M
Thermal Fiber Ribbon Stripping Kit	Sumitomo	JR-6



Outside Vendor Provided Equipment and Consumables (continued)		
<u>Description</u>	<u>Vendor</u>	<u>Vendor Part Number</u>
Laser Fiber Cleaver for PRIZM	Domaille Engineering	OS7500P OptiSaber [®] PRIZM [®] Laser Cleaver
Stereoscope Inspection Microscope (includes):		
Weighted Boom Stand	Meiji Technology	S-4100
F Holder Focus Mount	Meiji Technology	F Holder
Stereo Body 0.7X – 4.5X	Meiji Technology	EMZ-5
Super Wide Field 10X Eyepiece with 25mm Diameter Reticle Mount	Meiji Technology	MA502
Paired Eye Shields	Meiji Technology	MA600
Light Source	Schott	20500-108
Ring Light	Schott	A08600
Horizontal Heat Curing Oven		
UL Rated 110 volt AC (includes 24-position MT ferrule tray)	Domaille Engineering, LLC	CO-6700
CE Rated 220 volt AC (includes 24-position MT ferrule tray)		CO-6800
Curing oven PRIZM [®] LightTurn [®] Carrier Tray (12-port)		CO-15401
30µm Silicon Carbide Film, 5” Disc, PSA	Mipox Corporation	SC-30-F-50-3P
5” Diameter Rubber-Backed Ground Glass Polishing Plate	Domaille Engineering, LLC	PM12200
99.8% Pure Isopropyl Alcohol	Local Area Vendor	



Outside Vendor Provided Equipment and Consumables (continued)		
<u>Description</u>	<u>Vendor</u>	<u>Vendor Part Number</u>
Ultrasonic Cleaner	Cole Parmer®	EW-08890-01
		EW-08895-21
	Crest Ultrasonics	CP200HT
		CP230HT
Multi-channel Multimode Backreflection and Insertion Loss Test Equipment	JGR Services	MS12 (formerly Exfo IQS)
		MBR5-24 Series (24 channel)
		MLT Series (integrating sphere)
Multi-channel Multimode Backreflection and Insertion Loss Test Equipment	Viavi Solutions	RX3 Series
		MAP-mIL (MM LED, IL only) MAP-mORL (Laser source, IL/BR)
	OptoTest Corporation	OP930-MM-SW12-8513-R
Test Equipment Detector Base Plate	OptoTest Corporation	RIN-BASEPLT
Detector Adapting Collar		LADD-PRIZM
<p>US Conec assumes no responsibility or liability for equipment or consumables supplied by outside vendors. US Conec has no connection with any outside vendor other than the recommendation of their products in PRIZM® brand multifiber connector production. All warranties, either expressed or implied, are the sole responsibility of the product vendor(s) and shall not include or affect US Conec in any manner whatsoever. Recommendation of equipment or consumables by US Conec shall in no form or manner obligate US Conec or its customers to the sole use of those products. The use of products supplied by vendors other than those listed shall remain the right of US Conec and/or its customers.</p>		

- MTP®, MTP® PRO, MTP Elite®, MTP-16™, MXC®, MT Elite®, PRIZM®, LightTurn®, PRIZM® MT, ELiMENT™, and IBC™ are trademarks or registered trademarks of US Conec, Ltd., Hickory, NC
- FiberChek2™ is a trademark of VIAVI Solutions, Inc., San Jose, CA, formerly JDSU
- Corning® and SMF-28e® are registered trademarks of Corning, Inc., Corning, NY
- EPO-TEK® is a registered trademark of Epoxy Technology, Inc., Billerica, MA
- X-ACTO® is a registered trademark of Elmer's Products, Inc., Atlanta, GA
- IDEAL® is a registered trademark of IDEAL Industries, Inc., Sycamore, IL
- 3M® and Scotch® Magic™ Tape are trademarks or registered trademarks of 3M Company, St. Paul, MN
- Loctite®, Prism®, 4861™, 411™, 4851™, BIPAX®, TRA-BOND™, and F113SC™ are trademarks or registered trademarks of Henkel IP & Holding GmbH, Düsseldorf, Germany
- MicroCare® and Sticklers® are registered trademarks of MicroCare Corporation, New Britain, CT
- Chemtronics® and Techspray® are registered trademarks of Illinois Tool Works, Inc., Glenview IL
- SafetyLok™, Performus™, Nordson®, and EFD® are trademarks or registered trademarks of Nordson Corporation, Westlake, OH
- Clauss® is a registered trademark of Acme United Corporation, Fairfield, CT
- Kimwipes® and Kimberly-Clark® are registered trademarks of Kimberly-Clark Worldwide, Inc., Neenah, WI
- Cole-Parmer® is a registered trademark of Cole-Parmer Instrument Company, LLC, Vernon Hills, IL
- Kevlar® and DuPont™ are trademarks or registered trademarks of E. I. du Pont de Nemours and Company, Wilmington, DE
- Techni-Tool® is a registered trademark of Techni-Tool, Inc., Worcester, PA
- Excelta® is a registered trademark of Excelta Corporation, Buellton, CA
- McMaster-Carr® is a registered trademark of McMaster-Carr Supply Company, Elmhurst, IL
- OptiSaber™ and AbraSave® are trademarks or registered trademarks of Domaille Engineering, LLC, Clayton, MO
- NO-NIK® is a registered trademark of Ripley Tools, LLC, Cromwell, CT
- ICure™ is a trademark of Connected Fibers, LLC, Roswell, GA
- Fibersect.multi® is a registered trademark of Phenix Fiber Optics, LLC, Bozeman, MT
- Interprox® is a registered trademark of DENTAID, S.L., Barcelona, Spain
- Curaprox® is a registered trademark of Curaden AG, Kriens, Switzerland
- TePe® is a registered trademark of TePe Munhygienprodukte AB, Malmö, Sweden
- Jonard® is a registered trademark of Jonard Industries Corp., Tuckahoe, NY
- Ellsworth Adhesives® is a registered trademark of Ellsworth Corporation DBA Ellsworth Adhesives, LLC, Germantown, WI
- SEIKOH GIKEN® is a registered trademark of SEIKOH GIKEN Co., Ltd., Matsudo, Japan
- Mipox® is a registered trademark of Mipox Corporation, Tokyo, Japan
- NTT® is a registered trademark of Nippon Denshin Denwa Kabushiki Kaisha DBA Nippon Telegraph and Telephone Corp., Tokyo, Japan
- Data-Pixel® is a registered trademark of Data-Pixel Corp., Chavanod, France
- FastMT™ is a trademark of FiberQA, Old Lyme, CT
- Norland® is a registered trademark of Norland Products Inc., Cranbury, NJ
- Teflon® and Chemours® are registered trademarks of The Chemours Company FC, LLC, Wilmington, DE
- OptiTap® is registered trademark of Corning Optical Communications, LLC, Hickory, NC
- ZAP-IT® is a registered trademark of Zap-It Corp., Andover, NH
- ÅngströmBond® is a registered trademark of Fiber Optic Center, Inc., New Bedford, MA
- LaserCleave™ is a trademark of OpTek Systems, Abingdon, United Kingdom
- Promet® and FiBO® are registered trademarks of Promet International, Inc., Shoreview, MN
- Sharpie® is a registered trademark of Sanford, L.P. Newell Operating Company, Atlanta, GA
- NEOCLEAN® and CLETOP® are registered trademarks of NTT Advanced Technology Corp., Kawasaki, Japan
- Sumitomo® is a registered trademark of Sumitomo Heavy Industries, Ltd., Tokyo, Japan