



Applications Engineering Notes

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| Document Title | US Conec Recommended PRIZM [®] LightTurn [®] Brand Multifiber Connector Production Equipment |
| Document Number | AEN-1818 |
| Revision Number | 1.2 |
| Effective Date | November 13, 2015 |



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 | | |
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| <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 | |
| Modified Ribbon Holder for 1.8mm Round Cable | 14446 | Ribbonized fibers only |
| Thermal Fiber Ribbon Stripping Kit | MFA-001 | Includes A/C power supply (MFA-002) heat stripper (MFA-003) blade adjustment tool cleaning brush |
| Laser Fiber Cleaver for PRIZM [®] | 13729 | Includes: Keyence 3-axis CO ₂ Laser Marker Fixturing Computer Software |



| US Conec Provided Equipment and Consumables (continued) | | |
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| <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 | Kit Includes: Interposer Test Kit (P/N 14017) Interposer test base Interposer test body Spring force block Spring force tip Reference cap Interposer core (P/N 13602) Golden PRIZM® LightTurn® Connector Test Jumper (P/N 13779) |



| Outside Vendor Provided Equipment and Consumables | | |
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| <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 Nordson EFD [®] | 98268 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 |



| Outside Vendor Provided Equipment and Consumables (continued) | | |
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| <u>Description</u> | <u>Vendor</u> | <u>Vendor Part Number</u> |
| LaserCleave™ 1500LT for the production of PRIZM [®] LightTurn [®] Connectors | Optek Systems | Includes: Two Internal Camera Views, Touch Screen Monitor, Foot Pedal, Adaptors, and Fume Extractor |
| 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) | | |
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| <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 | JDS Uniphase | RX3 Series |
| | | MAP-mIL (MM LED, IL only) |
| | | MAP-mORL (Laser source, IL/BR) |
| Test Equipment Detector Base Plate Detector Adapting Collar | OptoTest Corporation | OP930-MM-SW12-8513-R |
| | | RIN-BASEPLT |
| | | LADD-PRIZM |

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