FIBER TOOLS™

GREENLEE COMMUNICATIONS

TESTING SOLUTIONS

VISUAL FAULT LOCATOR *(180XL)*

- 7km range
- Used to identify macrobends, bent fiber, bad connector or broken fiber
- 650nm red laser light
- 1mW optical power
- Every technician needs one

OPTICAL POWER METER *(GRP450, GRP460 and GUPM100)*

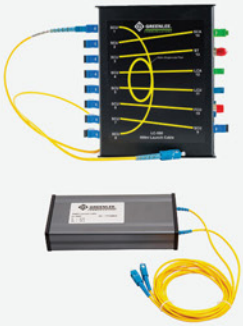
- -02 version typical Telco range of +6 to -70dBm
- -04 version typical MSO range of +23 to -45dBm
- Calibrated wavelengths: 850, 1300, 1310, 1490,1550,1611 and 1625nm
- Free Data Manager software
- Measure absolute optical power (dBm) with respect to 1mW
- Measure relative power - loss testing (dB)
- Every technician needs one

OPTICAL TIME DOMAIN REFLECTOMETERS *(OTDR)*

- 930XC-20C; most popular dual wavelength 1310/1550nm - SM
- 930XC-30F; triple wavelength 1310/1550/1625nm; 1625nm live fiber testing (out of band) - SM
- 930XC-30P; triple wavelength 1310/1490/1550nm; certifies PON installations at all wavelengths -SM
- 930XC-20M; dual wavelength 850/1300nm – MM
- Find distance to fault, loss events and characterize fiber links
- Free Trace Viewer software
- Macrobend testing
- Link Viewer display; shows each event with Pass/Fail indication
- OPM, VFL and stabilized laser source (SLS) standard with all models
- GR-196 compliant

LASER AND LED SOURCES *(GDLS355; (1310/1550nm), GDLS360; 1490/1625nm) and GDLS350; 850/1300nm)*

- Laser typically -4dBm, 1310nm, 1490nm, 1559nm and 1625nm used in Singlemode systems
- LED typically -20dBm; 850nm and 1300nm used in Multimode systems
- Used with the OPM for optical loss testing



LAUNCH CABLES

- LC-500 Universal- the technician will always have the right launch cable
- LC500, LC1000 and LC2000
- Reduce the effect of OTDR deadzone
- One required for troubleshooting
- Two required when characterizing a fiber link (need to be able to measure the IL and RL of the input and output connectors)

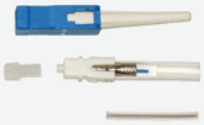
FUSION SPLICERS

- 910FS Core alignment – best for splicing dissimilar fibers, in core of network and Multimode
- 915FS Active Clad alignment – last mile installations where new fiber is typically used – better fiber geometries in newer fibers
- Uses splice on connectors (SOC)
- Loose tube splicing to SOC – Patent protected – only supplier of splicers that can do this
- ARC Calibration must be done before splicing session – online video
- Cleaning the splicer and cleavers is absolutely necessary – online video

FUSION OPTIC CLEAVERS

- 915CL; auto return
- 920CL; used in conjunction with mechanical connectors

SPLICE-ON CONNECTOR



- SC, LC, FC and ST – 19 variations supported
- Can be used in competitive splicers with optional adapter
- Reduces reflections
- Reduces assembly time
- Splice protector installed in boot so eliminates need for splice tray
- Easier cable dressing and easier cable management

FIBER IDENTIFIER *(FI-100)*

- Non-intrusive measurement of fiber power
- Low induced loss will not cause network equipment to go into alarm condition
- Won Lightwave® and BTR® awards for best new product*
- Identifies injected tones form GDLS laser
- Can sense the presence of light in Bend Insensitive Fibers

VIDEO INSPECTION SCOPES

- GVIS300; standalone displays connector/bulkhead endface
- GVIS400: probe can be used directly with a laptop or with Wi-Fi® hotspot GPAD255B to provide Pass/Fail analysis (IEC61300-3-35)
- GVIS300C; Supplied with GVIS400 probe for Pass/Fail analysis (IEC61300-3-35); Optional VFL and OPM
- Industry-leading Field of View (FOV); which can be more important than magnification

PATCHCORDS

- 1m length
- SM, MM, SC, LC, ST, FC, APC and UPC; Hybrid available
- Should be used to protect instrument bulkheads

MICRO OPM

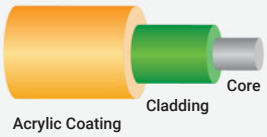
- GOPM01 +6 to -70dBm (Telco) range
- GOPM02 +26 to -50dBm (CATV) range
- Integrated VFL, 0dBm Class 2
- Integrated white LED for viewing in dimly lit locations
- Measure absolute optical power (dBm)
- Measure relative power - loss testing (dB)
- Calibrated wavelengths: 850, 1300, 1310, 1490,1550 and 1625nm
- Every technician needs one

MISCELLANEOUS

- Singlemode yellow 3mm jacket
  - Angle polish connector (green) to reduce reflections; typically -70dBm
  - Flat polish connector (blue or black) typically higher reflection -45dBm
- Multimode orange 3mm jacket; blue or black connector color

SC/APC

SC/PC



- Core 9 micron (SM) 50 micron (MM)
- Cladding 125 micron
- Acrylic coating 250 micron
- 900 micron tight or loose buffer (typically white)
- 3mm jacket yellow SM, orange MM, blue BIF

** Lightwave and BTR Broadband Technology Report are registered trademarks of Pennwell Corporation.*

WI-FI is a registered trademark of Wi-Fi Alliance.

FIBER OPTIC HANDTOOLS

ProGrip 5 in 1 Stripper
PA1171

ProGrip 3 in 1 Stripper
PA1177

Universal Slitter
PA1822

Economy Kevlar Cutter
PA1511

Economy Fiber Optic Stripper
PA1162

Mid Span Slitter
MSS100

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