G GREENLEE®

COMMUNICATIONS

A Textron Company

MADE FOR THE TRADE!™

International
Fibre
Catalogue

Introduction

Welcome to the 2014 International Fibre Catalogue from Greenlee Communications Ltd. This catalogue consolidates the portfolio of products available from Greenlee Communications for the Professional installation and maintenance of fibre optic cabling systems.

It covers our complete range of instruments and solutions for: Fusion splicing, Inspection, Cleaning and Testing of fibre networks.

The range of fibre Test Instruments provided by Greenlee Communications covers easy to operate and economically priced; Fusion Splicers, Fibre Fault Locators (field use Handheld OTDRs), a wide selection of Optical Power Meters, Light Sources, Live Fibre Identifiers, Visual Fault Locators and Video Inspection solutions in the Greenlee Mini Fibre Tools and XL fiberTOOLS™ ranges, Intelligent Optical Loss Test Sets in the 525 Series and high specification, zero dead zone fault locators for specialist applications in our benchtop Optical Fibre Monitor range.

Included alongside these test sets are fibre stripping and preparation tools, cleaning products and a range of accessory items to enable you to outfit technicians performing fibre optic installation and maintenance on multi-mode and single-mode networks.

These products complete the Greenlee promise of delivering quality, professional tools and test products, all designed to perform and Made for the Trade!™

Contents

GREENLEE®
COMMUNICATIONS
A Textron Company

MADE FOR THE TRADE!™

The specifications contained in this catalogue may be subject to change without prior notification.

Introduction

The 910FS Core Alignment fusion splicer provides lower loss fusion splices than cladding or V-groove technology fusion splicers.

The active alignment mechanism of the 910FS Core Alignment splicer makes adjustments to compensate for concentricity, dirt and overall diameter.

Single Mode Fibre (SMF) has a core diameter of between 8 and 10 microns but if the core and cladding is not co-axial, a mechanical alignment of the cladding (in V-grooves) can not optimally align the cores in two dimensions; Resulting in higher splice losses.

Core Alignment Technology

The 910FS Core Alignment fusion splicer employs a Core Detection System (CDS) also known as a Profile Alignment System (PAS). Light is shone into the fibre and embedded cameras are used to identify the core of the fibre by detecting the difference in the refraction of light caused at the core/cladding interface. The type of fibre is also determined at this stage and allows the 910FS fusion splicer to automatically select the optimum splicing profile.

Core alignment splicers use six motors and two cameras to align the fibres in the X, Y and Z dimensions. The motors then bring the fibres together in the Z direction prior to splicing.

The 910FS Core Alignment Splicer is able to compensate for any misalignment of the fibre cores held in the V-grooves since the V-grooves are moved to align the cores of both fibres precisely. This is done in a dynamic feedback loop (PAS) methodology that automatically senses the active area of the fibre core and adjusts the alignment of the two cores to minimise loss.

Any misalignment of the fibres within the V-grooves, due to fibre tolerances, contamination or misuse is automatically compensated resulting in repeatable, low loss splices.

910CL Optical Fibre Cleaver

FEATURES

- Cleaves Single-Mode and Multi-Mode Fibre
- Transferable Adaptors available for 250, 900µm, Bow-Tie & Splice-On-Connector (SC, ST, FC and LC)
- Fixed Adaptor option available
- Blades rotate for long life
- No batteries or power required
- Fibre Sharps Bin

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52064877	910CL	Optical Fibre cleaver
52064141	910FS-SOC-SC	Splice-on-connector adaptor (SC AND LC)
52066481	910FS-SOC-ST	Splice-on-connector adaptor (FC AND ST)
52064143	910FS-250	250µm Adaptor (PAIR-FH-250)
52064142	910FS-900	900µm Adaptor (PAIR-FH-900)
52064144	910FS-BOWTIE	BOW-TIE Adaptor (PAIR-FH-LN)
52055935	PA1171	Fibre Stripper
52051283	PA1511	Kevlar Scissors
52064145	910CL-BLADE	Cleaving wheel
52067833	910CL-CLAMP	Fixed Clamp

SPECIFICATIONS

Fibre Type	SM (G.652); MM (G.651); DS (G.653); NZDS (G.655); BIF (G.657)
Fibre Cleaved Length	10mm
Cladding Diameter	125µm
Coating Diameter	250µm and 900µm (Primary & Secondary Coating)
Fibre Count	Single
Cleaving Angle	≤0.5º
Blade Rotation Positions	16
Blade Life	16,000 Cleaves
Weight	255g
Dimensions	58 x 55 x 48mm
Splice-On-Connector	Adaptors available (see page 6)

910FS Optical Fusion Splicer

FEATURES

- 14.5cm (5.7") Flip-Over LCD Screen
- True Core Alignment for Low Loss Splices
- Rugged Carrying Case
- Auto-Check Fibre End Face
- Auto-Calculation of Estimated Splice Loss
- Selectable Heating Modes
- Splice-On-Connector Options (SC, LC, ST & FC)
- Transferable or Fixed Fibre Adaptors (250, 900µm, Bow-Tie)

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52064876	910FS	Optical Fusion Splicer
52063414	910FS-ELEC	Replacement Electrodes
52064877	910CL	Optical Fibre Cleaver
52064143	910FS-250	250µm Adaptor (Pair)
52064142	910FS-900	900µm Adaptor (Pair)
52063416	910FS-PS	Battery Charger (AC Mains transformer)
52063415	910FS-BATT	Battery-Li Ion (910FS)
52064875	910FS-KIT1	Contractor Fusion Splicer Kit
		• 910FS Optical Fusion Splicer
		• 910CL Optical Fibre Cleaver
52064874	910FS-KIT2	Contractor Fusion Splicer Kit
		• 910FS Optical Fusion Splicer
		• 910CL Optical Fibre Cleaver
		• PA1171 Fibre Stripper
		• Extra Rechargeable Li-ion Battery

ACCESSORIES

52064141	910FS-SOC-SC-LC	Splice-On-Connector Adaptor (SC & LC)
52066481	910FS-SOC-ST-FC	Splice-On-Connector Adaptor (ST & FC)
52064144	910FS-BOWTIE	Bow-Tie Adaptor (Pair)
52066954	910FS-EUR-CORD	European Power Cord
52066952	910FS-UK-CORD	UK Power Cord
52066930	910FS-CAR-ADAPTOR	12 V DC Vehicle Adaptor

SPECIFICATIONS

Applicable Fibres	SM (G.652); MM (G.651); DS (G.653); NZDS (G.655); BIF (G.657)
Fibre Cleaved Length	10mm
Cladding Diameter	80 to 150µm
Coating Diameter	100 to 1000µm
Fibre Count	Single
Fibre Aligning Method	Auto Core Alignment
Splice Loss (Typical)	0.02dB (SM); 0.01dB (MM); 0.04dB (DS); 0.04dB (NZDS)
Attenuated Splice Function	0.1dB – 15dB
Splicing Mode	60 Preset / User Definable Modes
Splice Time (Typical)	9 seconds (SM)
Splice-On-Connector	LC, SC, ST and FC (see page 6)
Arc Calibration Mode	Automatic and Manual
Protection Sleeve Length	60mm, 40mm, Micro Sleeves
Storage of Splice Results	5000 Results
Tension Test	2N
Fibre Display Magnification	240x
Tube Heating Mode	Adjustable 20-60 seconds
Tube Heating Time (Typical)	30 seconds
Display	5.7" Colour, Turn-Over LCD
Connectivity	RS-232; USB
Operating Conditions	Pressure: 0 to 16,404 feet (0 to 5,000 meters) above Sea Level
	Humidity: 0 to 95%
	Temperature: 14°F to 122°F (-10°C to 50°C)
Storage Conditions Temperature:	-4°F to 158°F (-20°C to 70°C)
Power Supply	100 to 240V AC Adaptor; Li-ion Battery (6600mAh)
	12VDC Vehicle Charger Option
Weight (Including Battery)	6.92lbs (3.14kg)
Dimensions (HxWxD)	7.08 x 6.29 x 6.10 inch (180 x 160 x 155mm)

Splice on Connectors

PART No.	CAT. No.	QTY	DESCRIPTION	QTY	CAT. No.	PART No.
52066346	02302	12	SC/APC Singlemode, Green 900µm Boot	100	02360	52066430
52066348	02303	12	SC/UPC Singlemode, Blue 900µm Boot	100	02361	52066441
52066349	02304	12	SC/PC 62.5µm Multimode (OM1), Beige 900µm Boot	100	02364	52066442
52066350	02305	12	SC/PC 50µm Multimode (OM2), Black 900µm Boot	100	02365	52066443
52066351	02306	12	SC/PC 50µm Multimode (OM3), Aqua 900µm Boot	100	02368	52066444
52066352	02308	12	SC/PC 50µm Multimode (OM4), Aqua 900µm Boot	100	02371	52066445
52066452	02313	12	FC/APC Singlemode, Green 900µm Boot	100	02372	52066461
52066453	02314	12	FC/UPC Singlemode, Blue 900µm Boot	100	02377	52066462
52066454	02316	12	FC/PC 62.5µm Multimode (OM1), Beige 900µm Boot	100	02378	52066463
52066455	02322	12	FC/PC 50µm Multimode (OM2), Black 900µm Boot	100	02379	52066464
52066456	02323	12	FC/PC 50µm Multimode (OM3), Aqua 900µm Boot	100	02381	52066465
52066479	02328	12	FC/PC 50µm Multimode (OM4), Aqua 900µm Boot	100	02384	52066477
52066466	02330	12	ST/UPC Singlemode, Blue 900µm Boot	100	02385	52066457
52066467	02332	12	ST/PC 62.5µm Multimode (OM1), Beige 900µm Boot	100	02386	52066458
52066468	02334	12	ST/PC 50µm Multimode (OM2), Black 900µm Boot	100	02387	52066459
52066480	02335	12	ST/PC 50µm Multimode (OM3), Aqua 900µm Boot	100	02388	52066460
52066469	02343	12	ST/PC 50µm Multimode (OM4), Aqua 900µm Boot	100	02389	52066478
52066446	02345	12	LC/APC Singlemode, Green 900µm Boot	100	02390	52066353
52066447	02346	12	LC/UPC Singlemode, Blue 900µm Boot	100	02395	52066354
52066448	02348	12	LC/PC 62.5µm Multimode (OM1), Beige 900µm Boot	100	02397	52066355
52066449	02351	12	LC/PC 50µm Multimode (OM2), Black 900µm Boot	100	02398	52066356
52066450	02355	12	LC/PC 50µm Multimode (OM3), Aqua 900µm Boot	100	02399	52066357
52066451	02359	12	LC/PC 50µm Multimode (OM4), Aqua 900µm Boot	100	02400	52066358

LC Type Splice on Connector

SC Type Splice on Connector

FC Type Splice on Connector

ST Type Splice on Connector

Maintenance of the 910FS and the 910CL

- Turn off splicer.
- Use Greenlee approved Foam swabs.
- Use Greenlee's CFK1003 CONSTRUCTION KIT (for fusion splicing applications) See page 43.
- Do not touch the electrodes.
- Never use compressed air.
- Use the cleaning brush only to clean debris from general working area, never on the lenses, V-grooves or mirrors.

V-grooves (Recommended Daily). See Figure 1.
Clean the bottom of the V-groove using the Electro-Wash® MX Precision Cleaning Pen and V-Groove Cleaning Swabs.

Fibre Clamps (Recommended Daily)
If contaminants are present on the clamps, proper clamping may not occur resulting in poor quality splices. The fibre clamps should be frequently inspected and periodically cleaned during normal operation. To clean the fibre clamps do the following:
- Clean the surface of the clamps with Electro-Wash® MX pre-saturated universal cleaning wipes (CP421).

Wind Protector Mirrors (Recommended Daily). See Figure 2.
If the wind protector mirrors become dirty, the fibre core position may be incorrect due to decreased optical path clarity, resulting in higher splice loss. To clean the mirror's, do the following:
  i. Clean the mirror surface with Fusion Splice Mirror Cleaning Swab (EFB-12). The swab may be moistened with MX solvent, precision hydrocarbon.
  ii. Mirror should look clean with no streaks or smudges.

Objective Lenses (Recommended Weekly). See Figure 3.
If the objective lens' surface becomes dirty, normal observation of the core position may be incorrect, resulting in higher splice loss or poor splicer operation. Therefore, clean both of them at regular intervals. Otherwise, dirt may accumulate and become impossible to remove.

To clean the objective lenses do the following:
  i. Before cleaning the objective lenses, always turn off the splicer.
  ii. Gently clean the lenses' (X-axis and Y-axis) surface with a dry Fusion Splice Mirror Cleaning Swab (EFB-12). Using the swab, start at the centre of the lens and move the swab in a circular motion until you spiral out to the edge of the lens surface.
  iii. The lens surface should be clean and free of streaks or smudges.
  iv. Turn on the power and make sure no smudges or streaks are visible on the monitor screen. Press X/Y key to change the screen and check the state of the lens surface on both the X- and Y-screens.

NOTE:
Do not touch the electrodes when cleaning.

It is recommended to clean the objective lenses when replacing the electrodes.

General Fusion Splicer Cleaning (Recommended Daily)
Use the cleaning brush only to clean debris from general working area, never on the lenses, V-grooves or mirrors.

Periodically clean the fibre adaptors with Electro Wash pre-saturated wipe (CP421).

Never touch the fibre clamping area of the fibre adaptors.

Cleaning Fibre Cleaver (Recommended Daily)
If the circular blade or clamp pads of the fibre cleaver become contaminated, the cleaving quality could degrade. This may lead to fibre surface or end-face contamination, resulting in higher splice loss. Clean the circular cleaving blade and clamp pads with a 2.5mm Foam swab. The Foam Swab may be moistened with MX Solvent, precision hydrocarbon.

| Figure 1 | Figure 2 | Figure 3 |

930XC Handheld Multimode OTDR

NEW

FEATURES

- 850/1300nm wavelength
- Optical Power Meter
- Stabilised Light Source
- Visual Fault Locator
- Easy to use
- NiMH batteries for 8 hours continuous use
- Fast automated testing
- Up to 24dB dynamic range
- Large backlight LCD display
- Fibre analysis software for report generation
- RS-232/USB interface

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52067080	02607	930XC-20M-FC Multimode OTDR W/FC Bulkhead
52067079	02606	930XC-20M-SC Multimode OTDR W/SC Bulkhead
52067081	02608	930XC-20M-ST Multimode OTDR W/ST Bulkhead

930XC Handheld Singlemode OTDR

NEW

FEATURES

- 2 & 3 wavelength options available:
  1310/1550nm; 1310/1490/1550nm;
  1310/1550/1625nm
- Up to 35dB SWDR on the 2 wavelength model
  Up to 38dB SWDR on the 3 wavelength model
- Optical Power Meter
- Stabilised Light Source
- Visual Fault Locator
- Fibre analysis software for report generation
- Large backlight LCD colour display
- Measure length and defects of coiled fibre
- 1625nm operation for live fibre testing
- RS-232/USB interface
- NiMH batteries for 8 hours continuous use

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
Dual Wavelength Singlemode OTDR		
52067083	02610	930XC-20C Singlemode OTDR, 1310/1550nm FC/UPC
52067082	02609	930XC-20C Singlemode OTDR, 1310/1550nm SC/UPC
52067084	02611	930XC-20C Singlemode OTDR, 1310/1550nm ST/UPC
52067086	02613	930XC-20C Singlemode OTDR, 1310/1550nm FC/APC
52067085	02612	930XC-20C Singlemode OTDR, 1310/1550nm SC/APC

PART No.	CAT. No.	DESCRIPTION
Triple Wavelength Singlemode PON OTDR		
52067088	02615	930XC-30P Singlemode OTDR, 1310/1490/1550nm FC/UPC
52067087	02614	930XC-30P Singlemode OTDR, 1310/1490/1550nm ST/UPC
52067089	02616	930XC-30P Singlemode OTDR, 1310/1490/1550nm SC/UPC
52067091	02618	930XC-30P Singlemode OTDR, 1310/1490/1550nm FC/APC
52067090	02617	930XC-30P Singlemode OTDR, 1310/1490/1550nm SC/APC

PART No.	CAT. No.	DESCRIPTION
Triple Wavelength Singlemode Filtered OTDR		
52067093	02620	930XC-30F Singlemode OTDR, 1310/1550/1625nm FC/UPC
52067092	02619	930XC-30F Singlemode OTDR, 1310/1550/1625nm SC/UPC
52067094	02621	930XC-30F Singlemode OTDR, 1310/1550/1625nm ST/UPC
52067096	02626	930XC-30F Singlemode OTDR, 1310/1550/1625nm FC/APC
52067095	02623	930XC-30F Singlemode OTDR, 1310/1550/1625nm SC/APC

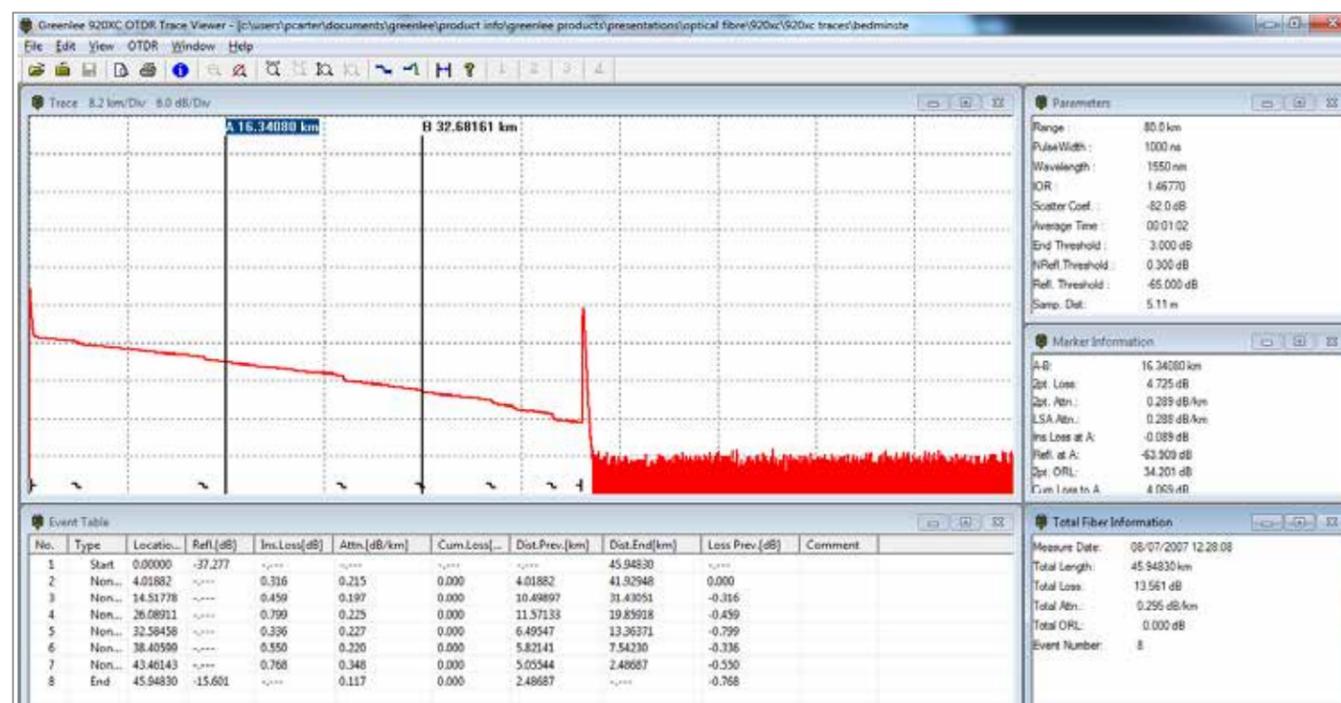| PART No.	CAT. No.	DESCRIPTION
930XC OTDR ACCESSORIES		
52034541	20988	930XC Carry Case
52034549	20996	FC Bulkhead Connector (For UPC & APC)
52034550	20997	ST Bulkhead Connector (For UPC & APC)
52034551	20998	SC Bulkhead Connector (For UPC & APC)
52047065	25691	Power Supply, Universal
52039299	10582	Vehicle adaptor (5.5 Outer Diameter, 2.1Inner Diameter)
52034542	20989	USB Cable for OTDR
52034543	20990	RS-232 Cable
52034552	20999	NIMH Battery (9.6V)

KIT CONTENTS:

- OTDR unit
- Car Charger
- Bulkhead adaptors
- Data Cable
- International PSU (UK, US, EU, Aus)
- Certificate of Calibration
- TraceViewer Software

Greenlee's OTDR Range Characteristics

SPECIFICATIONS

	930XC-20C	930XC-30F	930XC-30P	930XC-20M	
Wavelength (± 20nm)	1310/1550	1310/1550/1625	1310/1490/1550	850/1300	
Dynamic Range (dB)	35	38/37/37	38/37/37	21/24	
Event Deadzone (m)	1.8	1.5	2.5	1.8	
Attenuation Deadzone (m)	10	10	14	8	
Pulsewidth (ns)	5, 10, 30, 100, 300, 1µs, 2.5µs, 10µs, 20µs			12, 30, 100, 275, 1µs, 2µs	
Selectable Ranges (km)	0.3, 1.3, 2.5, 5, 10, 20, 40, 80, 120, 160, 240		0.1, 0.3, 0.5, 1.3, 2.5, 5, 10	0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40, 80	
Sampling Points	16,000 (Maximum)			16,000 (Maximum)	
Average Time	15s/30s/1 min/2 min/3 min				
Distance Measurement Accuracy	$\pm(1m + 5 \times 10^{-5} \times$ distance + sampling space$)$				
Connector Type	PC or APC (interchangeable FC, SC, ST)				
Reflection Detect Accuracy	±4 dB				
Attenuation Detect Accuracy	±0.05 dB/dB				
Measurement Data Storage	1,000 test curves				
Data Transmission	RS-232/USB port				
Visual Fault Locator (VFL)	3mW; 650nm				
Optical Power Meter (OPM)	InGaAs				
OPM Wavelengths	850, 1300, 1310, 1490, 1550, 1625nm				
OPM Range	+6 to -70dBm (+6 to -60dBm @ 850nm)				
OPM Display resolution	0.01dB				
OPM MOD Identification	1kHz, 2kHz				
Stabilized laser Source (SLS)	Wavelength same as selected in OTDR mode ≤ -7dBm				
Power Supply	NiMH chargeable battery/AC adaptor				
Battery Life	Support over 8 hours operating on one charge or over 20 hours standby				
Operating Temperature	-10°C to 50°C				
Storage Temperature	-20°C to 60°C				
Relative Humidity	0 to 95% (non-condensing)				
Weight	1.9lbs. (0.87kg)				
Dimensions	7.7" H x 3.9" W x 2.4" L (196mm x 100mm x 64mm)				
Compliance	BelCore GR196, CE, FCC, UL, RoHS, WEEE				
Fibre Analysis Software	Version 3.2				

TraceViewer Software

MicrOTDR Optical Fault Locator

FEATURES

- Measure cable length to 20km
- Singlemode and multimode operation
- Identify distance to 7 loss points/faults
- Distance accuracy of +/- 2 metres
- Check fibre reels for length and defects
- Troubleshoot installed fibre
- Easy to use
- Fast Operation (<6 seconds to find 6 events plus the end of fibre)
- Long battery life (13,000 tests on 4 AA batteries)
- ST output connection
- Accurate ID of loss points & length for SM & MM fibres

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50476633	47663	MicrOTDR Optical Fault Locator

SPECIFICATIONS.	MicrOTDR
Centre Wavelengths	1310nm
Emitter Type	Laser (Class 1)
Connector Type	ST
Pulse Widths	200ns Typical
Pulse Rate	500kHz
Emitter Fibre Type	Multimode & Singlemode
Index of Refraction (GIR)	1.40 ~1.69
End of measurement Accuracy	±2m + IOR Variation (IOR Variation = 0.67m/km per.001 IOR error)
Minimum Distance Measured	30m
Dead Zone	30m
Maximum Distance Measured	20km
Minimum Detectable Signal @ 10km	-49dB
Number of Events Detected	7
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Relative Humidity	0 to 95% RH (non-condensing)
POWER	
Battery Life (Alkaline)	13,000 tests
PHYSICAL	
Size	195mm x 100mm x 45mm (7.7" x 3.9" x 1.7")
Weight	0.44kg (0.9lbs)

Optical Fibre Monitors

A specialised Optical Time Domain Reflectometer (OTDR) for quantifying the optical transmission characteristics of fibre optic cabling and components. The OFM design incorporates an extremely narrow test pulse width and utilises a highly sensitive photon counting detector. The result is an instrument capable of making optical measurements that would be impossible with a traditional OTDR.

FEATURES

OFM1020	OFM130
\• Measure cable length to 20km	
\• Zero Deadzone	
• 90dB Return loss dynamic range	• 85dB Return loss dynamic range
• 850/1300nm operation	• 1310/1490/1550/1625nm operation
\• Measure optical components, cables and sensors	
\• Monitor bend loss and fibre stress	
\• Universal optical interface	
• Ruggedised for field deployment	
\• AC/DC operation	
\• Custom configurations available (fibre, outputs, wavelengths)	

OFM1020

OFM130

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
OFM1020		Ruggedised Short Wavelength Hi-Resolution OTDR with Cal-Kit
OFM130		Long wavelength Hi-Resolution OTDR
TFM150		Tuneable Hi-Resolution OTDR

SPECIFICATIONS

	OFM1020	OFM130	TFM150
DISTANCE			
Range	0-20km (65,000ft.)		
Accuracy	0.02% ± 2.5cm (1")	0.01% or 3mm whichever is >	0.01% or 3mm whichever is >
Single Point Resolution	1cm (0.4") for SNR>50dB	5mm (0.2") for SNR>50dB	5mm (0.2") for SNR>50dB
Two Point Resolution	13cm for SNR>50dB	10cm for SNR>50dB	10cm for SNR>50dB
DEADZONE			
Event	12cm typical (5")		
Attenuation	38cm typical (15")		
RETURN LOSS			
Dynamic Range	>90dB	>80dB	>80dB
Accuracy	+/- 0.5 dB for RL <75 dB, +/- 1.0 dB for RL >75 dB		
INSERTION LOSS, FRESNEL			
Dynamic Range	>40dB	>30 dB, T-Model >33 dB	>40dB
Accuracy	+/- 0.3 dB for SNR >50 dB		
INSERTION LOSS, RAYLEIGH			
Dynamic Range	>20dB	>10 dB, T-Model >13 dB	>20dB
Accuracy	+/- 0.05 dB for SNR >50 dB	+/- 0.02 dB for SNR >50 dB	+/- 0.02 dB for SNR >50 dB
WAVELENGTH			
Accuracy	40nm	40nm	0.12nm
Spectral Width	20nm	20nm	<0.3nm
MECHANICAL			
Size	36cm x 48cm x 20cm	35cm x 39cm x 20cm	57cm x 47cm x 19cm
	(14.2" x 18.9" x 7.9")	(13.8" x 15.3" x 7.9")	(22.4" x 18.5" x 7.5")
Weight	11kg (24lb.)	9.5kg (21lb.)	16kg (36lb.)
POWER			
AC	110/220V, 60/400Hz		
DC	24V	n/a	n/a

Optical Power Meters (OPM)

FEATURES

- Referenced & Absolute optical power readings
- Download results via USB (GRP460 only)
- Various connector options available
- Multimode and Singlemode operation
- Rugged and compact size
- 850, 1310, 1490, 1550nm calibrated wavelengths
- Stores up to 1000 measurements per wavelength
- Audible tone alert from incoming 2kHz signal
- NIST traceable measurements
- Long battery life
- Conversion to Live Fibre ID with GLFI 110

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52056202	GRP450-02	OPM, Germanium, 0.01dB, dB/dBm
52056203	GRP450-03	OPM, InGaAs, 0.01dB, dB/dBm
52056204	GRP450-04	OPM, Filtered InGaAs, 0.01dB, dB/dBm
52056205	GRP455-02	OPM, Germanium, 0.01dB, dB/dBm w/Memory
52056206	GRP455-03	OPM, InGaAs, 0.01dB, dB/dBm w/Memory
52056207	GRP455-04	OPM, Filtered InGaAs, 0.01dB, dB/dBm w/Memory
52056208	GRP460-02	OPM, Germanium, 0.01dB, dB/dBm, Memory & PC
52056209	GRP460-03	OPM, InGaAs, 0.01dB, dB/dBm, Memory & PC
52056210	GRP460-04	OPM, Filtered InGaAs, 0.01dB, dB/dBm, Memory & PC

CONNECTOR OPTIONS

52056231	GAC020	2.5mm Universal Adaptor for OPM
52056232	GAC021	1.25mm Universal Adaptor for OPM
52056233	GAC026	SC Adaptor for OPM
52056234	GAC027	ST Adaptor for OPM
52056235	GAC028	FC Adaptor for OPM
52056236	GAC029	LC Adaptor for OPM
52038126	-	Single Instrument, Belt-Mounted Carry Pouch

SPECIFICATIONS

dB/dBm	GRP450-02	GRP450-03	GRP450-04
On-board storage	GRP455-02	GRP455-03	GRP455-04
Data transfer to PC	GRP460-02	GRP460-03	GRP460-04
Detector type	**Ge**	**InGaAs**	**Filtered InGaAs**
Wavelength range	850nm to 1625nm		
Measurement range	+3 to − 60dBm	+3 to −70dBm	+23 to −45dBm
Resolution	0.01dB		
Absolute accuracy*	+/- 0.25dB		
Optical interface	Universal 2.5mm (Order 1.25mm or screw on adaptors separately)		
Tone identification	2kHz Incoming signal, Audible Alert		
Power on	Push button ON, Auto shutoff		
Storage	Store up to 1000 measurements/wavelength GRP 455 & 460		
Data transfer	Mini USB Port (1000 points/wavelength) GRP 460 ONLY		
Dimensions	6.1 x 0.94 x 0.75in. (15.5 x 2.38 x 1.90cm)		
Weight	3.0oz (85g)		

Greenlee OPM Data Manager software is available for download from the dedicated Greenlee website at http://minifibre.greenlee.com (available for use with GRP460 OPM only)

SC   ST   LC   FC

Optical Light Sources (OLS)

FEATURES

- Dual- and Single- Wavelength options
- Stable, calibrated output
- NIST Traceable
- Optional AC power supply adaptor for GDLS versions only (non CE)
- Multimode and Singlemode wavelength options
- FB version compatible with LC connectors
- 2kHz Tone output
- Long Battery Life
- Rugged and compact size

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52060849	GDLS350FB	850/1300 Dual LED (Includes SC Adaptor)
52060850	GDLS355FB	1310/1550 Dual Laser (Includes SC Adaptor)
52060686	GDLS360FB	1490/1625 Dual Laser SOURCE (Includes SC Adaptor)
52056217	GDLS350	850/1300 Dual LED (Includes SC Adaptor)
52056218	GDLS355	1310/1550 Dual Laser (Includes SC Adaptor)
52056211	GTP210	850nm LED Source - Fixed ST Female
52056212	GTP215	850nm VCSEL Source - Fixed SC Male
52056213	GTP220	1310nm Laser Source - Fixed SC Male
52056214	GTP230	1300nm LED Source - Fixed ST Female
52056215	GTP240	1490nm Laser Source - Fixed SC Male
52056216	GTP250	1550nm Laser Source - Fixed SC Male

CONNECTOR OPTIONS

52061736	GAC022B	SC Adaptor for FB Version
52061737	GAC023B	FC Adaptor for FB Version
52061738	GAC024B	ST Adaptor for FB Version
52061739	GAC025B	LC Adaptor for FB Version
52056237	GAC022	SC Adaptor for OLS - GDLS 350 & GDLS 355
52056238	GAC023	FC Adaptor for OLS - GDLS 350 & GDLS 355
52056239	GAC024	ST Adaptor for OLS - GDLS 350 & GDLS 355
52056245	GAC030	120V AC Adaptor for GTP200 AND GDLS300 SERIES
52046246	GAC031	240V AC Adaptor for GTP200 AND GDLS300 SERIES
52038126		Single Instrument, Belt-Mounted Carry Pouch

SC   ST   LC   FC

ORDERING INFORMATION

	GDLS350FB		GDLS355FB		GDLS360FB	
	GTP210	**GTP230**	**GTP220**		**GTP240**	**GTP250**
Wavelength	850nm	1300nm	1310nm	1550nm	1490nm	1625nm
Output Power	-20dBm Typ.		-4.0dBm Typ.		-4.0dBm Typ.	
Laser Classification	**LED**		Class 1 (FDA 21 CFR 1040, 11)		Class 1 (FDA 21 CFR 1040, 11)	
Output Stability	+/- 0.05dB after 15 minutes, + /- 0.03dB after 1 hour warm-up					
Spectral Width	40nm/120nm		5nm/5nm		5nm/5nm	
Optical Interface	Universal Connector Interface (FC, SC, ST & LC) - LC only on FB versions					
Tone Output	2kHz					
Power On	Push Button ON, Auto Shut-off					
Battery	CR2 (battery charger available)					
Dimensions	6.1 x 0.94 x 0.75in (15.5 x 2.38 x 1.90cm)					
Weight	3oz (85g)					
Operating Temperature	-10°C to 50°C					
Storage Temperature	-30°C to 60°C					

Live Fibre Identifier

FEATURES

- Snaps on to GRP series Optical Power Meter
- Allows in service testing on Singlemode Networks
- FTTx active OLT or ONT detection
- Detects 2kHz tone from signal generator GDLS355 and GDLS360
- Accepts 3mm jacketed SMF-28 and bend insensitive fibre
- Non invasive testing, will not activate channel alarm

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52056249	GLFI 110	Live Fibre Identifier adaptor to be used with OPM (not supplied)

SPECIFICATIONS

GLFI110 with	GRP460-02	GRP460-03
Network configuration	Singlemode Long Haul, CO to CO or FTTx	
Core Power Measurement Range	+23 to –30dBm	+23 to –40dBm
Induced Loss (SMF 28)	< 1.5dB @ 1550nm	
Absolute core power accuracy (SMF28e) *	+/- 2dB within measurement range	
Tone identification	2kHz Incoming signal, Audible Alert	
Measurement Storage	Available when used with GRP 455 & 460	
Dimensions	4.0 x 1.5 x 1.5in. (10 x 1.25 x 1.25cm)	
Weight	2.0oz (6g)	

* Accuracy measured at –10dBm and 25°C, all other specifications are @ 25°C.

Optical Power Meter to be ordered separately

Optical Power Meter to be ordered separately

Visual Fault Locator

FEATURES

- 635nm red laser diode
- 2Hz or CW operation
- Rugged & compact size
- Visibly locate near end faults
- High Output 1mW
- Standard 2.5mm Universal Connector
- Long Battery life

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52056247	GVF610	Visual Fault Locator with CW and 2Hz modulated output (2.5mm UCI)

Note: This product complies with 21 CFR 1040.10 & 1040.11

SPECIFICATIONS

Wavelength	635nm
Optical Output Power	635nm Laser, 1mW FDA 2, IEC 2
Power On	ON/OFF Pushbutton
Battery	1000 operations, 3.0V, CR2
Low Battery	LED Indication
Modulation	2Hz modulation

ENVIRONMENTAL

Operating Temperature	-10°C to +55°C
Storage Temperature	-30°C to +70°C
Weight	3.0oz (85g)
Physical	6.10 x 0.94 x 0.75in (15.5 x 2.38 x 1.90cm)

Video Inspection System - GVIS400HDP (Digital Video Inspection)

FEATURES

- Automatic or manual Pass/Fail analysis (IEC 61300-3-35)
- Field of View 800µm x 600µm
- USB connection to Laptop/PC
- Generate reports
- High Definition Image
- Hands-free voice commands (Windows Vista, 7 and above)
- Magnify and centre
- Stream power measurements from GRP460
- Digital archiving

SPECIFICATIONS

FOV (Field of View)	Live - 800µm x 600µm Enlarge - 485µm x 365µm Magnify and centre - 485µm x 365µm
Resolution	<1 micron
Optical Magnification	135x, 200x
Camera type	HD Megapixel CMOS sensor
Pass/Fail analysis	User selectable or IEC 61300-3-35 software included
Focus control	External Focus System
Cord Length	44cm - 100cm
Connector	USB 2.0
Light Source	White LED
Lighting Technique	Coaxial
Size (Probe)	180mm x 25mm x 19mm
Weight (Probe)	102g

Greenlee GVIS Image Management Software (for use with the GVIS300 and GVIS400HDP Visual Inspection System) also allows for data streaming of OPM loss measurements (available for use with GRP460 OPM only).

Greenlee Image Management System software being available for download from the dedicated Greenlee website at http://minifibre.greenlee.com

Greenlee GVIS Image Management Software (for use with the GVIS300 and GVIS400HDP Visual Inspection System) also allows for data streaming of OPM loss measurements (available for use with GRP460-02 OPM only).
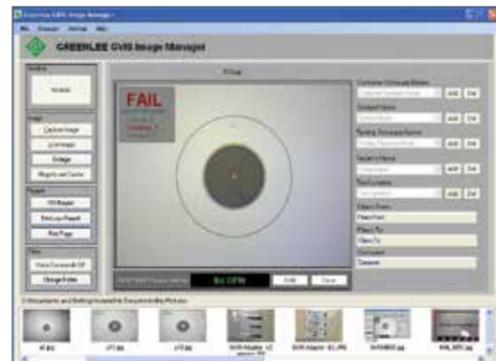
Figure 1 – Image showing automatic Pass/Fail analysis software

Figure 2 – Image showing manual analysis software

Video Inspection System - GVIS300

FEATURES

- ¾ µm scratch resolution
- 135x magnification
- FOV 630µm x 440µm
- Rugged and compact size
- Quick change adaptor tips for all connector styles
- Unique focussing mechanism eliminates need for "focus wheel"
- Thin (less than 2.5cm dia.) ergonomic probe design
- 90mm LCD Display
- Li Ion Battery & smart technology AC charger system
- Optional Video Capture Module for digital archiving of the image

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52066366	GVIS400HDP	GVIS400HDP Probe with Auto Analysis Software, Carry Case, 10 x 1.25mm Swabs, 10 x 2.5mm Swabs, Cleaning Pen & SqR™, 1.25mm, 2.5mm, SC & LC Adaptors
52056253	GVIS300MP	GVIS 300 Monitor & Probe, 601C Carry Case, SC Bulkhead & 2.5mm Universal Adaptor, Battery Charger, Cleaning Pen & SqR™
52056254	GVIS300MP-USB	GVIS 300 Monitor & Probe w/USB option, 601C Carry Case, SC Bulkhead & 2.5mm Universal Adaptor tips, Battery Charger, Cleaning Pen & SqR™
52056256	GVIS300P	GVIS 300 Probe, 601C Carry Case, Instructions & 2.5mm Universal Adaptor
52056255	GVCM410	USB Video Capture Module (For use with GVIS300P)

ADAPTOR TIPS FOR GVIS PROBES

52066359	GAC034B	E2000 Bulkhead Adaptor kit
52056257	GAC040B	SC Bulkhead
52056258	GAC041B	SC/APC Bulkhead
52056259	GAC042B	FC Bulkhead
52056261	GAC044B	LC Bulkhead
52066360	GAC045B	LC/APC Bulkhead Adaptor kit
52056263	GAC046B	ST Bulkhead
52056264	GAC047B	MTP Mating Adaptor
52056265	GAC048B	1.25mm Connector Universal
52056266	GAC049B	2.5mm Connector Universal
52060682	GAC100B	ODC Plug Tip
52060683	GAC101B	ODC Socket Tip
52060684	GAC104B	60º Angled
52060884	GAC107B	LC Bulkhead, 60º Angled
52060685	GAC109B	SC BULKHEAD, 60º Angled
52064309	GAC175B	MTP/APC Bulkhead Adaptor kit
52064310	GAC176B	MTP/PC Bulkhead Adaptor kit

SPECIFICATIONS

FOV (Field of View)	FOV 630µm x 440µm
Resolution	¾ micron
Light Source	Blue LED
Lighting Technique	Coaxial
Display screen size	3.5in (90mm) diagonal
Battery Life	8 to 10hrs continuous
Battery charge time	3 hours
Size	Probe – 180mm x 25mm x 19mm / Monitor – 120mm x 89mm x 32mm
Weight - (monitor, probe & case)	0.54kg
Operating Temp.	0°C to 50°C
Storage Temp.	-40°C to 70°C

Instruments Designed for POF & Fibre Optic Cable Testing

The XL fiberTOOLS™ are designed for the professional to perform installation and maintenance measurements on both Plastic & Glass fibre optic networks.

The instrument family consists of standard instruments for routine cable testing, through to Stabilised Light Sources with stringent Launch Conditions for the Avionics and Defence Industries and Research Laboratories.

Greenlee's LED Light Sources have been manufactured with specific launch conditions to overcome the inconsistent measurements caused by standard Light Sources.

The Multimode products that have specific launch conditions designed for greater accuracy and repeatable results.

Greenlee also manufacture instruments to test POF links. POF links are being used in a number of industries particularly on short links where optical budgets aren't too tight. The automotive industry is a good example of this.

The XL fiberTOOLS™ are fully featured, general purpose fibre optic instruments, easy to operate and economically priced to outfit all technicians performing fibre optic installation and maintenance.

Greenlee also manufacture a range of Optical Light Sources and Power Meters with enhanced EMI performance, manufactured to Military standards these offer the ultimate in accuracy.

This range of Greenlee Optical Light Sources and Power Meter was designed specifically for: avionics, automotive, defence and research.

Detector type should be selected depending on operational wavelength.

560XL Fibre Optic Power Meter (Formerly 555B)

FEATURES

- Multi-Wavelength Storage
- 0.01dB measurement resolution
- Absolute (dBm) & Referenced (dB) Power measurements
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- SOC interface adapts to all commonly used connectors.*
- Economically priced
- Easy to use - three buttons control all functions

OPTICAL SPECIFICATIONS

Detector Type	1mm Indium Gallium Arsenide (InGaAs)	
Calibration Wavelengths	850nm, 1300nm, 1310nm and 1550nm	
Power Range	+3dBm to -60dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm	±0.5dB
	-3dBm to -50dBm	±0.05dB
	-50dBm to -60dBm	±0.5dB
Resolution	0.01dB	
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

ENVIRONMENTAL SPECIFICATIONS

Calibration Wavelengths	850nm, 1300nm, 1310nm and 1550nm
Power Range	+3dBm to -60dBm
Accuracy	±0.25dB
Resolution	0.01dB
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)
Connector Interface	SOC

Refer to p.27 for ordering information

567XL Silicon Fibre Optic Power Meter (Formerly 557B)

FEATURES

- Multi-Wavelength Storage
- 0.01dB measurement resolution
- Absolute (dBm) & Referenced (dB) Power measurements
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- SOC interface adapts to all commonly used connectors.*

OPTICAL SPECIFICATIONS

Detector Type	3 x 3.5mm Silicon	
Calibration Wavelengths	635nm, 780nm, 850nm (Due to display 630nm will be displayed)	
Power Range	+3dBm to -60dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm	±0.5dB
	-3dBm to -50dBm	±0.05dB
	-50dBm to -60dBm	±0.5dB
Resolution	0.01dB	
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

Refer to p.32 & 33 for all available adaptors

568XL High Intensity Optic Power Meter (Formerly 558B)

FEATURES

- Multi-Wavelength Storage
- 0.01dB measurement resolution
- Absolute (dBm) & Referenced (dB) Power measurements
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- SOC interface adapts to all commonly used connectors.*
- Easy to use - three buttons control all functions

OPTICAL SPECIFICATIONS

Detector Type	2 mm Indium Gallium Arsenide (InGaAs)	
Calibration Wavelengths	980nm, 1310nm and 1550nm	
Power Range	+25dBm to -30dBm (1310nm and 1550nm);	
	+25dBm to -27dBm measurement range at 980nm	
	To avoid thermal damage, limit exposure to high power (greater than +23dBm) to less than 30 minutes	
Linearity at: (1310nm and 1550nm)	+25dBm to +22dBm	±1.0dB
	+22dBm to +18dBm	±0.5dB
	+18dBm to +10dBm	±0.2dB
	+10dBm to -30dBm	±0.05dB
Absolute Accuracy	±0.25dB at calibration conditions	
Wavelength Dependence	975 to 985nm	0.025dB/nm
	1270 to 1330nm	0.0033dB/nm
	1500 to 1625nm	0.0016dB/nm
Polarization Dependence	<0.1dB	
Resolution	0.01dB	
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

Refer to p.27 for ordering information

570XL 850/1300nm LED Source (Formerly 252)

OPTICAL SPECIFICATIONS		
Centre Wavelength	850nm	1300nm
Range (Typical)	840nm to 880nm	1270nm to 1345nm
Max. Spectral Width (FWHM)	55nm	150nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output (µm)		
100/140	-13dBm	-20dBm (252A-AS100)
62.5/125	-13dBm	-20dBm (252A)
50/125	-14dBm	-21dBm (252B)
Modulation Frequencies	270Hz, 1kHz and 2kHz	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 80 hours continuous operation)	
Connector Interface	FC, SC or ST	

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- Fixed connector interface FC, SC or ST
- 850/1300nm wavelengths

580XL 1310/1550nm Laser Source (Formerly 262A)

OPTICAL SPECIFICATIONS		
Centre Wavelength	1310nm	1550nm
Range (Typical)	1280nm to 1340nm	1520nm to 1580nm
Max. Spectral Width (FWHM)	<5nm	<5nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output (µm)		
Minimum	-8dBm	-8dBm
Typical	-7dBm	-7dBm
Modulation Frequencies	270Hz, 1kHz and 2kHz	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 80 hours continuous operation)	
Connector Interface	FC, SC or ST	

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- Fixed connector interface FC, SC or ST
- 1310/1550nm wavelengths

573XL 650nm LED Source for Large Core Plastic and Glass Fibre (Formerly 253B-POF)

OPTICAL SPECIFICATIONS	
Centre Wavelength	650nm
Range (Typical)	630nm to 670nm
Max. Spectral Width (FWHM)	<40nm
Stability (1 hour)	±0.05dB
Typical Power Output (µm)	
200/230 SI Fibre	-15dBm ±0.5dB
Modulation Frequencies	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Fixed ST or SOC adaptor available

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- Fixed ST and SOC Adaptor options are available
- 650nm wavelength

577XL M90 850nm LED Source with M90 Launch Condition (62.5/125µm Fibre)
(Formerly 257A-M90)

OPTICAL SPECIFICATIONS	
Centre Wavelength	850nm
Range (Typical)	840nm to 880nm
Max. Spectral Width (FWHM)	<55nm
Stability (1 hour)	±0.05dB
Launch Profile	M90
Typical Power Output (µm)	
62.5/125µm GI Fibre	-13dBm ±0.5dB
Modulation Frequencies	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal Connector Interface, Physical Contact(UCI-PC)

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- UCI Adaptor options are available
- 850nm wavelength

578XL M90 1300nm LED Source with M90 Launch Condition (62.5/125µm Fibre)
(Formerly 255A-M90)

OPTICAL SPECIFICATIONS	
Centre Wavelength	1300nm
Range (Typical)	1270nm to 1345nm
Max. Spectral Width (FWHM)	150nm
Stability (1 hour)	±0.05dB
Launch Profile	M90
Typical Power Output into:	
62.5/125µm GI Fibre	-20dBm ±0.5dB
Modulation Frequencies	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal Connector Interface, Physical Contact(UCI-PC)

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- UCI Adaptor options are available
- 1300nm wavelength

577XL AS100 850nm LED Source with AS-100 Launch Condition (100/140µm Fibre)
(Formerly 257A-AS100)

OPTICAL SPECIFICATIONS	
Centre Wavelength	850nm
Range (Typical)	840nm to 880nm
Max. Spectral Width (FWHM)	<55nm
Stability (1 hour)	±0.05dB
Launch Profile	AS100
Typical Power Output (µm)	
100/140µm GI Fibre	-13dBm ±0.5dB
Modulation Frequencies	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal Connector Interface, Physical Contact (UCI-PC)

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- UCI Adaptor options are available
- 850nm wavelength

XL Series Multimode LED Light Sources

XL Series LED Sources*

	570XL		573XL	577XL	578XL
Nominal	850nm	1300nm	650nm	850nm	1300nm
Range (nm)	820 - 870	1260 - 1350	630 - 670	840 - 880	1270 - 1345
Max. spectral width (FWHM)	55nm	150nm	40nm	55nm	150nm
Stability, 1 hour	±0.05dB	±0.05dB	±0.05dB	±0.05dB	±0.05dB
POWER OUTPUT					
200/230µm SI MM fibre	–	–	-15dBm ***		–
100/140µm GI MM fibre	-13dBm	-20dBm	–	-13dBm**(AS-100)	-20dBm
62.5/125µm GI MM fibre**	-13dBm	-20dBm	–	-13dBm** (M90)	-20dBm** (M90)
50/125µm GI MM fibre	-14dBm	-21dBm	–		-21dBm
9/125µm SM fibre	–	–	–	–	-38dBm
Power output uncertainty	±0.5dB	±0.5dB	±0.5dB	±0.5dB	±0.5dB
Connector interface	FC, SC, or ST		SOC or ST	Universal connector interface	
Functions	MOD: Modulated output mode (270Hz, 1kHz, 2kHz)				
CW: Continuous Wave output mode	3oz (85g)				
Modulation frequencies	270Hz, 1kHz, and 2kHz (±0.5%) using switch inside battery compartment				
Power requirements	Two AA-size alkaline batteries				
Battery life	> 24 hours				
ENVIRONMENT					
Operating temperature	-15°C to 55°C				
Storage temperature	-35°C to 70°C				
Humidity, non-condensing	0% to 95%				
Dimensions	7.2 x 14.2 x 3.5cm (2.8 x 5.6 x 1.4in)				
Weight:					
Single	215g (7.6oz)				
Dual	241g (8.5oz)				

* Within specified operating environment of 20°C to 25°C.

** Calibrated launch level, equilibrium modal distribution.

*** Calibrated launch level

560XL-EMI Fibre Optic Power Meter with enhanced EMI performance

OPTICAL SPECIFICATIONS

Detector Type	1mm InGaAs	
Calibration Wavelengths (nm)	850, 1300, 1310, 1550	
Power Range	+3dBm to -60dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm	±0.5dB
	-3dBm to -50dBm	±0.05dB
	-50dBm to -60dBm	±0.5dB
Resolution	0.01dB	
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

FEATURES
- 0.01dB measurement resolution
- Multi-Wavelength Storage
- SOC interface adapts to all commonly used connectors*
- Absolute (dBm) & Referenced (dB) Power measurements
- User selectable auto shut-off
- Long battery life
- Economically priced
- Rugged and splash-proof
- Enhanced EMI performance: MIL-STD-461E, Method RS103, tested to 190 V/m
- Engineered for use in areas with high electrical interference

570XL-AS100-EMI 850/1300nm LED Source with enhanced EMI Performance

OPTICAL SPECIFICATIONS

Centre Wavelength	850nm	1300nm
Range (Typical)	840nm to 880nm	1270nm to 1345nm
Max. Spectral Width (FWHM)	55nm	150nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output (µm)		
100/140	-13dBm	-20dBm
62.5/125	-13dBm	-20dBm
50/125	-14dBm	-14dBm
Modulation Frequencies	270Hz, 1kHz and 2kHz	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 80 hours continuous operation)	
Connector Interface	UCI	

FEATURES
- Stable calibrated output
- 850nm / 1300nm wavelength LED Source
- Long battery life - approx. 80 hours
- Continuous wave and modulated output
- User selectable auto shut-off
- Supports a wide range of UCI connectors, including FC, SC, and ST
- Economically priced
- Enhanced EMI performance: MIL-STD-461E, Method RS103 tested to 200 V/m
- Easy to use
- Configured to meet AS100 launch conditions
- Rugged and splash-proof

580XL-EMI 1310/1550nm Laser Source with enhanced EMI Performance

OPTICAL SPECIFICATIONS

Centre Wavelength	1310nm	1550nm
Range (Typical)	1280nm to 1340nm	1520nm to 1580nm
Max. Spectral Width (FWHM)	<5nm	<5nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output (9/125µm)		
Minimum	-8dBm	-8dBm
Typical	-7dBm	-7dBm
Modulation Frequencies	270Hz, 1kHz and 2kHz	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 80 hours continuous operation)	
Connector Interface	UCI	

FEATURES
- Stable calibrated output
- 1310nm / 1550nm wavelength Laser Source
- Long battery life - approx. 80 hours
- Continuous wave and modulated output
- User selectable auto shut-off
- Supports a wide range of UCI connectors, including FC, SC, and ST
- Economically priced
- Enhanced EMI performance: MIL-STD-461E, Method RS103 tested to 200 V/m
- Rugged and splash-proof
- Easy to use

5670XL Multimode Fibre Optic Test Set

5670-FC Includes	
560XL	Optical Power Meter
570XL-FC	850/1300nm LED Source w/FC Connector
T1020	FC/PC SOC Adaptor
914B	Carrying Case

5670-SC Includes	
560XL	Optical Power Meter
570XL-SC	850/1300nm LED Source w/SC Connector
T1062	SC/PC SOC Adaptor
914B	Carrying Case

5670-ST Includes	
560XL	Optical Power Meter
570XL-ST	850/1300nm LED Source w/ST Connector
T1030	ST/PC SOC Adaptor
914B	Carrying Case

FEATURES

- 850/1300nm loss measurements
- Insertion loss test set for Multimode fibre
- Rugged package design
- Connector for FC, SC or ST
- Economically priced
- Easy-to-use portable package

5680XL Singlemode Fibre Optic Test Set

5680-FC Includes	
560XL	Optical Power Meter
580XL-FC	1310/1550nm Laser Source w/FC Connector
T1020	FC/PC SOC Adaptor
914B	Carrying Case

5680-SC Includes	
560XL	Optical Power Meter
580XL-SC	1310/1550nm Laser Source w/SC Connector
T1062	SC/PC SOC Adaptor
914B	Carrying Case

5680-ST Includes	
560XL	Optical Power Meter
580XL-ST	1310/1550nm Laser Source w/ST Connector
T1030	ST/PC SOC Adaptor
914B	Carrying Case

FEATURES

- 1310/1550nm loss measurements
- Insertion loss test set for Singlemode fibre
- Rugged package design
- Connector for FC, SC or ST
- Economically priced
- Easy-to-use portable package

5890XL Multimode & Singlemode Fibre Optic Test Set

5890-FC Includes	
560XL	Optical Power Meter
570XL-FC	850/1300nm LED Source w/FC Connector
580XL-FC	1310/1550nm Laser Source w/FC Connector
T1020	FC/PC SOC Adaptor
915B	Carrying Case

5890-SC Includes	
560XL	Optical Power Meter
570XL-SC	850/1300nm LED Source w/SC Connector
580XL-SC	1310/1550nm Laser Source w/SC Connector
T1062	SC/PC SOC Adaptor
915B	Carrying Case

5890-ST Includes	
560XL	Optical Power Meter
570XL-ST	850/1300nm LED Source w/ST Connector
580XL-ST	1310/1550nm Laser Source w/ST Connector
T1030	ST/PC SOC Adaptor
915B	Carrying Case

FEATURES

- 850/1300nm loss measurements
- 1310/1550nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced
- Insertion loss test set for Multimode & Singlemode fibre

170XL Visual Fault Locator

OPTICAL SPECIFICATIONS.	
Light Source Type	Red laser Diode
Centre Wavelength	635nm
Range (Typical)	630nm to 640nm
Max. Spectral Width (FWHM)	<2nm
Power Output	
- Max. into SMF-28 Fibre	1.0mW (0dBm)
- Min. CW Output Mode	316µW (-5dBm)
Blink Frequencies in MOD mode	<3Hz approximate
Power Requirements	Two AA 1.5V batteries (approx. 48 hours continuous operation)
Connector Interface	Standard "Quick Connect" universal 2.5mm receptacle

ENVIRONMENTAL SPECIFICATIONS.	
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +60°C
Humidity	0 to 95% non-condensing
Dimensions	Length: 22cm (9.0in.) Diameter: 2.54cm (1in.)
Weight	200g (7.0oz.)
CDRH Laser Class	Class IIIa
CE	IEC 60-1-2 portion of the EN50082-1 ESD immunity requirement EN50082-1: 1992 IEC 801-2, -3, -4

FEATURES

- Modulated output mode increases viewing contrast
- 1.0mW output power
- Universal interface fits all 2.5mm connector interfaces (FC, SC, ST)
- Rugged, splash-proof aluminium design
- Ergonomic rotary switch permits one-handed operation
- Nylon belt holster included
- Two AA batteries provide 48 hours continuous operation
- Find breaks to 5km
- Continuous wave output mode for steady fault location

510XL SensoLITE™ Light Detector

OPTICAL SPECIFICATIONS.	
Centre Wavelength	630nm to 1600nm
Detector	PIN-type germanium
Optical Interface	Direct connection to bare or connectorised fibres; No specialised adaptors required
Sensitivity	
630nm	<-40dBm
850nm	<-55dBm
1300nm	<-55dBm
1550nm	<-55dBm
Output Indicators	
Light >-40dBm	Amber LED/audible signal
Battery test	Green LED
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)
Environmental Specifications	
Operating Temperature	-15°C to +55°C
Storage Temperature	-25°C to +70°C
Humidity	0 to 90% RH, non-condensing
Dimensions	14.2 x 4.3 x 3.3cm (5.6 x 1.7 x 1.3in.)
Weight	120g (4.2oz.) with batteries

FEATURES

- Saves time and eliminates guesswork
- Simple, durable, and easy to use
- Works with bare and connectorised fibres
- Accepts all fibre and most connector types
- Wide sensitivity range: from -55dBm to +25dBm
- Long battery life - up to one year of normal use
- Unique design permits testing in bright ambient light conditions
- Replaceable light blocking curtain
- Audible & Visual indication of detected light
- Low battery indicator
- Detects visible and invisible light wavelengths (630nm to 1600nm)

CP-2976 & CP-3137 Silicon Fibre Optic Power Meter (Formerly 557B replaced by 567XL)

FEATURES

- Multi-Wavelength Storage
- 0.01dB measurement resolution
- Absolute (dBm) & Referenced (dB) Power measurements
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- SOC interface adapts to all commonly used connectors.*
- Economically priced
- CP-2976 calibrated at 660nm (567XL with 660nm calibration)
- Easy to use - three buttons control all functions
- CP-3137 calibrated at 650nm (567XL with 650nm calibration)

OPTICAL SPECIFICATIONS

	CP-2976	CP-3137
Detector Type	3 x 3.5mm Silicon	3 x 3.5mm Silicon
Calibration Wavelengths	660nm, 780nm, and 850nm	650nm, 780nm, and 850nm
Power Range	+3dBm to -60dBm	+3dBm to -60dBm
Accuracy	±0.25dB	±0.25dB
Linearity at:		
+3dBm to -3dBm	±0.5dB	±0.5dB
-3dBm to -50dBm	±0.05dB	±0.05dB
-50dBm to -60dBm	±0.5dB	±0.5dB
Resolution	0.01dB	0.01dB
Power Requirements	Two AA 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

NB! The optical Power Meter displays 630nm on both Customised Products but is calibrated to the wavelengths above.

573XL 650nm LED Source for Large Core Plastic and Glass Fibre (Formerly 253B/POF)

FEATURES

- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced
- Fixed ST and SOC Adaptor options are available
- 650nm wavelength

OPTICAL SPECIFICATIONS

Centre Wavelength	650nm
Range (Typical)	630nm to 670nm
Max. Spectral Width (FWHM)	<40nm
Stability (1 hour)	±0.05dB
Typical Power Output (µm)	
200/230 SI Fibre	-15dBm ±0.5dB
Modulation Frequencies	270Hz, 1kHz and 2kHz
Power Requirements	Two AA 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Fixed ST or SOC adaptor available

Ordering Information - XL fiberTOOLS™ Series

PART No.	CAT. No.	DESCRIPTION
52022371	84501	170XL 635nm Visual Fault Locator
52058728	00024	510XL SENSOLITE™ Light Sensor
52022353	84485	560XL InGaAs Optical Power Meter
52058723	00025	567XL Silicon Fibre Optical Power Meter
52058724	00026	568XL High Intensity Optical Power Meter
52022355	84486	570XL-FC 850/1300nm LED Source (FC)
52022356	84487	570XL-SC 850/1300nm LED Source (SC)
52022357	84488	570XL-ST 850/1300nm LED Source (ST)
52058784	00023	573XL 650nm LED Source with Fixed ST Connector
52061770	00598	573XL 650nm LED Source with SOC Adaptor Interface
52058727	00029	577XL-AS100, 850nm LED Source with 100/400µm Launch Condition
52058726	00027	577XL-M90, 850nm LED Source with 62.5/125µm Launch Condition
52061054	00753	578XL-M90, 1300nm LED Source with 62.5/125µm Launch Condition
52022358	84489	580XL-FC 1310/1550nm Laser Source (FC)
52022359	84490	580XL-SC 1310/1550nm Laser Source (SC)
52022360	84491	580XL-ST 1310/1550nm Laser Source (ST)
52022361	84492	5670-FC Multimode Test Set (FC)
52022362	84493	5670-SC Multimode Test Set (SC)
52022363	84494	5670-ST Multimode Test Set (ST)
52022365	84495	5680-FC Singlemode Test Set (FC)
52022366	84496	5680-SC Singlemode Test Set (SC)
52022367	84497	5680-ST Singlemode Test Set (ST)
52022368	84498	5890-FC Single/Multimode Test Set (FC)
52022369	84499	5890-SC Single/Multimode Test Set (SC)
52022370	84500	5890-ST Single/Multimode Test Set (ST)
52039994	21057	CP-2976 (567XL Calibrated at 660nm) Optical Power Meter
52039998	12290	CP-3137 (567XL Calibrated at 650nm) Optical Power Meter
52058804	00244	560XL-EMI InGaAs Optical Power Meter
52058806	00245	570XL-EMI 850nm/1300nm LED Source with AS100 Launch Condition
52058805	00246	580XL-EMI 1310/1550nm Laser Source

Snap On Connector (SOC) for XL Series Instruments

Snap On Connectors (SOC) are used on the XL Fibre Optic Power Meters and 573XL LED light source.

The Snap On Connectors configure the instruments for various optical connectors. Contact Greenlee for other available adaptors.

FC	ST	SC
T1020	T1030	T1062

Universal Connector Interface (UCI) for XL Series Instruments

Users will need to purchase a Universal Connector Interface (UCI) adaptor for use with specific light sources.

Please specify the desired connector adaptor type when ordering. Contact Greenlee for other available adaptors. See p32 & p33 for suitable connectors.

FC	SC	ST
APC-108	ASC-108	AST-108

525-30 Smart Optical Loss Test Set (Multimode)

FEATURES

- Automated Dual wavelength Bi-Directional Insertion Loss testing
- User selectable Pass/Fail thresholds
- Communication between units via messaging
- Test record storage and data management software
- Wide dynamic range
- Rugged outside plant instrument package
- 850/1300nm wavelengths
- Stores 1000 measurement results

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063292		**525-30-FC - 850/1300nm Smart Optical Loss Test Set, FC Adaptor**
52040093	525N-30-PCX	Individual Multimode Fibre Optic Test Unit 850/1300nm
52039961	APC-108/C	UCI Adaptor, FC-PC, Ceramic Sleeve
50605768	T1020	SOC Adaptor, FC
52063293		**525-30-SC - 850/1300nm Smart Optical Loss Test Set, SC Adaptor**
52040093	525N-30-PCX	Individual Multimode Fibre Optic Test Unit 850/1300nm
52039962	ASC-108/C	UCI Adaptor, SC-PC, Ceramic Sleeve
50605751	T1062	SOC Adaptor, SC
52063294		**525-30-ST - 850/1300nm Smart Optical Loss Test Set, ST Adaptor**
52040093	525N-30-PCX	Individual Multimode Fibre Optic Test Unit 850/1300nm
52039964	ATS-108/C	UCI Adaptor, ST-PC, Ceramic Sleeve
50605775	T1030	SOC Adaptor, ST

Accessories included with each kit:

52039558	81-000004	AC Power Supply, 9V
50606871	90SOC	SOC Adaptor Removal Tool (Puller)
52040053	520RSK	RS232 Adaptor – RJ11
52039221	97-0525-30-01	CD and Manual
52034541	TBD	Canvas Carrying Case

525-60 Smart Optical Loss Test Set (Singlemode)

FEATURES

- Automated bi-directional testing
- Optical return loss measurements
- Dual wavelength insertion loss measurements
- User selectable Pass/Fail thresholds
- Communication between units via messaging
- Wide dynamic range
- Test record storage and data management software
- Rugged outside plant instrument package
- 1310/1550nm wavelengths
- Stores 1000 measurement results

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063295		**525-60-FC - 1310/1550nm Smart Optical Loss Test Set, FC Adaptor**
54040101	525N-60-PCX	Individual Singlemode Fibre Optic Test Unit 1310/1550nm (Manual RL)
52039961	APC-108/C	UCI Adaptor, FC-PC Wide Key, Ceramic Sleeve
50605768	T1020	SOC Adaptor, FC
52063296		**525-60-SC - 1310/1550nm Smart Optical Loss Test Set, SC Adaptor**
54040101	525N-60-PCX	Individual Singlemode Fibre Optic Test Unit 1310/1550nm (Manual RL)
52039962	ASC-108/C	UCI Adaptor, SC-PC, Ceramic Sleeve
50605751	T1062	SOC Adaptor, SC
52063297		**525-60-ST - 1310/1550nm Smart Optical Loss Test Set, ST Adaptor**
54040101	525N-60-PCX	Individual Singlemode Fibre Optic Test Unit 1310/1550nm (Manual RL)
52039964	ATS-108/C	UCI Adaptor, ST-PC, Ceramic Sleeve
50605775	T1030	SOC Adaptor, ST
52063298		**525-60RL-APC-FC 1310/1550nm Smart Optical Loss Test Set APC & RL, FC Adaptor**
52040099	525N-60-APC-RLX	Individual Singlemode Fibre Optic Test Unit 1310/1550nm (Auto RL)
52039961	APC-108/C	UCI Adaptor, FC-APC Wide Key, Ceramic Sleeve
50605768	T1020	SOC Adaptor, FC
52063299		**525-60RL-APC-SC 1310/1550nm Smart Optical Loss Test Set APC & RL, SC Adaptor**
54040101	525N-60-PCX	Individual Singlemode Fibre Optic Test Unit 1310/1550nm (Auto RL)
52039962	ASC-108/C	UCI Adaptor, SC-APC, Ceramic Sleeve
50605751	T1062	SOC Adaptor, SC

Accessories included with each kit:

52039558	81-000004	AC Power Supply, 9V
50606871	90SOC	SOC Adaptor Removal Tool (Puller)
52040053	520RSK	RS232 Adaptor – RJ11
52037628	0934-27	Mandrel Wrap
52039221	97-0525-30-01	CD and Manual
52034541	TBD	Canvas Carrying Case
50606925	60692	Cletop Reel Cleaner

525-90 PON Optical Loss Test Set (Singlemode)

FEATURES

- One button AUTOTEST
- Software for report generation & fibre cable management
- Optical return loss meter
- Rugged package for outside plant environment
- Automated Insertion/Return Loss measurements
- Stores 1000 measurement results
- Optical power meter
- Rechargeable batteries
- 2 wavelength options available:
  - 1310/1550/1625nm
  - 1310/1490/1550nm

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063300	**525-90-FC**	**Smart Optical Loss Test Set for PON Applications 1310/1490/1550nm, FC Adaptor**
54040083	525-90-RLX	Individual Singlemode Fibre Optic Test Unit 1310/1490/1550nm (Auto RL)
52039961	APC-108/C	UCI Adaptor, FC-APC Wide Key, Ceramic Sleeve
50605768	T1020	SOC Adaptor, FC
52063301	**525-90-SC**	**Smart Optical Loss Test Set for PON Applications 1310/1490/1550nm, SC Adaptor**
54040083	525-90-RLX	Individual Singlemode Fibre Optic Test Unit 1310/1490/1550nm (Auto RL)
52039962	ASC-108/C	UCI Adaptor, SC-PC Wide Key, Ceramic Sleeve
50605751	T1062	SOC Adaptor, SC

Accessories included with each kit:

52039558	81-000004	AC Power Supply, 9V
50606871	90SOC	SOC Adaptor Removal Tool (Puller)
52040053	520RSK	RS232 Adaptor – RJ11
52037628	0934-27	Mandrel Wrap
52039221	97-0525-04	CD and Manual
52034541	TBD	Canvas Carrying Case

SPECIFICATIONS.

	525-90 (1490nm)
POWER METER	
Test Port	PC Snap on Connector (SOC)
Detector Type	InGaAs
Display Range	+10dBm to -70dBm
Calibrated Wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625nm
Absolute Accuracy	<±0.25dB
Resolution	0.01dB
Measurement Units	dBm, dB, W

Smart Optical Loss Test Set - Characteristics

SPECIFICATIONS

	525-30-PCX	525-60-PCX	525-60-APC	525-60RL-APC	525-90
Instrument Type	Multimode Smart Loss Test Set	Singlemode Smart Loss Test Set			
Interface Connector	PC Connector Interface		APC Connector Interface		
Autotest Measurement	AUTOTEST performs Insertion Loss Test	AUTOTEST performs Insertion Loss Test & Manual Return Loss		AUTOTEST performs Insertion Loss & Return Loss in one test	

OPTICAL POWER METER SPECIFICATIONS

Detector Type	InGaAs
Display Range	+10dBm to -70dBm
Calibrated Wavelengths (nm)	850, 980, 1300, 1310, 1480, 1550, 1625 / 850, 980, 1300, 1310, 1490, 1550, 1625
Absolute Accuracy	≤±0.25dB
Resolution	0.01dB
Measurement Units	dBm, dB, W
Connector Type	UCI-UPC flat polish adaptor 62.5/125μm SM / UCI-UPC flat polish adaptor 9/125μm SM / UCI-APC flat polish adaptor 9/125μm SM

OPTICAL LIGHT SOURCE SPECIFICATIONS

	525-30-PCX		525-60-PCX		525-60-APC		525-60RL-APC		525-90		
Centre Wavelength	850 ±30nm	1300±30nm	1310 ±30nm	1550±30nm	1310 ±30nm	1550±30nm	1310 ±30nm	1550±30nm	1310 ±30nm	1490nm±30nm	1550±30nm
Spectral Width(nm)	<170	<170	<5	<5	<5	<5	<5	<5	<5	<5	<5
Output Power	>-21 dBm	>-21 dBm	>10dBm	>10dBm	>10dBm	>10dBm	>10dBm	>10dBm	>10dBm	>10dBm	>10dBm
Output Stability	±0.10dB/8hrs	±0.10dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs	±0.15dB/8hrs
Coupled Power Ratio (CPR)	25dB-29dB ±1dB	21dB-22dB ±1dB									
HOMP	0.30dB to 0.80dB										

RETURN LOSS SPECIFICATIONS

	525-30-PCX	525-60-PCX	525-60-APC	525-60RL-APC	525-90
Measurement Range	n/a	10-45dB	10-65dB	10-65dB	10-45dB
Accuracy	n/a	0.5dB	0.5dB	0.5dB	0.5dB

GENERAL DESCRIPTIONS

Display Type	Graphics Liquid Crystal with Backlight
Fibre Type	MM 62.5/125μm / Singlemode 9/125μm
Standard Connector	FC, SC, ST other connectors available
Laser Classification	Class 1 CFR 1040
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +60°C
Relative Humidity	0 to 95% RH non-condensing
Size	19.3 x 10.9 x 5.8 cm (7.6 x 4.3 x 2.3 in)
Weight	1.0kg (2.2lbs)
Power	Internal rechargeable NiMH
Battery Life	>8 hours

Fibre Optic Instrument Adaptors – SOC and UCI

- Our SOC and UCI adaptors provide direct connectivity for Greenlee Communications fiberTOOLS® to a wide range of industry-standard fibre optic connectors
- Adaptor design ensures maximum accuracy and repeatability when performing critical measurements on fibre optic systems
- Easy to clean and use
- Single-mode and multimode compatible
- SOC adaptors are compatible with both PC and APC interfaces
- UCI adaptors feature durable phosphor bronze alignment sleeve

CONNECTOR TYPE		SOC ADAPTOR		UCI ADAPTOR		
DESCRIPTION		PART NO.	CAT. NO.		PART NO.	CAT. NO.
1.25 mm Quick-Connect Universal Adaptor (LC, MU, etc.)		50605881	T1026	Use hybrid cable only*		
2.5 mm SOC Quick-Connect Adaptor		50605874	T1025		50607038	AU-250
E-2000		50605997	T10E2		50606987	AE2-10
FC		50605768	T1020		50605720 52039961	APC-108 APC-108C
LC		50606000	T10LC	Use hybrid cable only* or FoPro® **		
MIL-T-29504/4 & /5 Termini		50605898	T1038	Use hybrid cable only* or FoPro® **		
MT-RJ		50606055	T13A2***	Use hybrid cable only*		
SC		50605751	T1062		50605744	ASC-108
SMA 905/906		50605966	T1087		50607021	ASM-90
ST		50605775	T1030		50605737	ATS-108
TOSLINK – Simplex		50606024	T10TB	Use hybrid cable only*		

Fibre Optic Instrument Adaptors – SOC and UCI

CONNECTOR TYPE		SOC ADAPTOR		UCI ADAPTOR		
DESCRIPTION		PART NO.	CAT. NO.		PART NO.	CAT. NO.
TOSLINK – Duplex (Set of 2)		50606031	T10TD	Use hybrid cable only*		
Versatile Link – V/Z PIN		50606048	T10ZP	Use hybrid cable only*		
SMA 905/906		52037781	T1087-POF	N/A		
ST		52040191	T1030-POF	N/A		
FC Mating Adaptor (FC/PC and APC)		50107895	MPC-108	N/A		
SC Mating Adaptor (SC/PC)		50107879	MSC-S0	N/A		

* When using a Hybrid Adaptor Cable, the UCI adaptor and one end of the Hybrid Adaptor Cable should be a commonly available connector type. (i.e. FC, SC or ST)

** FoPro ferrule options include 2.5mm, 1.57mm (MIL-style 16AWG optical contacts) and 1.25mm

*** SOC adaptor for use only with the 556MT Optical Power Meter

50606871 (90SOC) Adaptor Removal Tool

TIA-568B & FOTP-171A Certified Reference Cables

FEATURES

Ensures accurate measurements for repeatable and reproducible testing to the latest industry standards.

Meets and/or exceeds the latest industry standards including:

- TIA/EIA-455-171 (FOTP-171A), issued June 2001
- TIA-568B, TIA-562-7 (OFSTP-7) and TIA-526-14 (OFSTP-14) for optical link testing
- TIA-455-171 (FOTP-171, Attenuation) and TIA-455-8 (FOTP-8, Return Loss) for cable assembly testing
- Corresponding IEC measurement standards

ORDERING INFORMATION

PART NO.	UPC NO.	DESCRIPTION
SM standard reference cables Type A to Type B		
50606581	60658	562K-101 Reference cable, SM FC PC
50606611	60661	563K-101 Reference cable, SM ST PC
50606642	60664	566K-101 Reference cable, SM SC PC
50606673	60667	56E2-101 Reference cable, SM E2000PC
50606703	60670	56LC-LSM Reference cable, LC-PC X2 SM Minicord
50606765	60676	56MU-LSM Reference cable, MU-PC X2 SM Minicord
MM standard reference cables Type A to Type B (50/125µm)		
50606598	60659	562K-105 Reference cable, MM50 FCPC
50606628	60662	563K-105 Reference cable, MM50 STPC
50606659	60665	566K-105 Reference cable, MM50 SCPC
50606680	60668	56E2-105 Reference cable, MM50 E2000PC
50606710	60671	56LC-LM5 Reference cable, MM50 LCPC
MM standard reference cables Type A to Type B (62.5/125µm)		
50606604	60660	562K-106 Reference cable, MM62.5 FCPC
50606635	60663	563K-106 Reference cable, MM62.5 STPC
50606666	60666	566K-106 Reference cable, MM62.5 SCPC
50606697	60669	56E2-106 Reference cable, MM62.5 E2000PC
50606727	60672	56LC-LM6 Reference cable, MM62.5 LCPC
SM Hybrid Reference Cables (FC-PC to Type A)		
50606802	60680	572J-101 Reference cable, SM FCPC-FCAPC
50606819	60681	576J-101 Reference cable, SM FCPC-SCAPC
50606826	60682	57E8-101 Reference cable, SM FCPC-E2000APC
50607335	60733	57LC-LSM Reference cable, SM FCPC-LCPC
50607366	60736	57MU-LFM Reference cable, SM FCPC-MUPC
MM Hybrid Reference Cables (FC-PC to Type A - 50/125µm)		
50607342	60734	57LC-LM5 Reference cable, MM, 50 FCPC-LCPC
50607373	60737	57MU-LM5 Reference cable, MM, 50 FCPC-MUPC
MM Hybrid Reference Cables (FC-PC to Type A - 62.5/125µm)		
50607359	60735	57LC-LM6 Reference cable, MM, 62.5 FCPC-LCPC
50607380	60738	57MU-LM6 Reference cable, MM, 62.5 FCPC-MUPC

SPECIFICATIONS

Ferrule OD	2.4990 ±0.0005mm
Fibre to Ferrule Eccentricity	<0.25µm (SM) and <3µm (MM)
Insertion Loss	<0.15dB (SM, 1310/1550nm) and <0.25dB (MM, 850/1300nm)
Return Loss	>55dB (SM, 1310/1550nm) and >40dB (MM, 850/1300nm)
Beam Exit Angle	<0.25° (SM) and <0.5° (MM)
Standard Length	3m

*fiber*TOOLS™ Hard Carry Case

FEATURES

Designed to hold Greenlee handheld instruments and a full range of test accessories.

900B and 901B Hard Carrying Cases

- Top tray holds up to 3 (900B) or 4 (901B) handheld instruments and a 170XL Visual Fault Finder
- Bottom compartment of both models stores additional instruments and test accessories
- Compact, waterproof and lockable
- Moulded from black structural foam resin

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50606840	900B	Carry Case Ruggedised 3 Unit
50606857	901B	Carry Case Ruggedised 4 Unit

Hard Carry Case

FEATURES

Recommended Option for GVIS Video Inspection System.

Hard Carry Case

- Foam inlay for added instrument protection

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063091	-	Hard Carry Case

SPECIFICATIONS

42 x 30 x 10cms

Deluxe Carrying Case

FEATURES

Designed to hold Greenlee Mini Fibre Tools (GMFT) and accessories.

Deluxe Carry Case

- Can hold up to 5 Instruments (Power Meters/Sources/VFL)
- For use with GMFT
- Pockets for accessory and cleaning material storage
- Compact and lightweight
- Shoulder strap

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52057086	-	Deluxe Carry Case

Carry Case only

*fiber*TOOLS™ Carrying Case

FEATURES

Designed to hold Greenlee handheld instruments and full range of test accessories.

914B and 915B Soft Carry Cases

- 2 or 3 instrument versions
- Zip-able pocket for accessory storage
- Compact and lightweight
- Shoulder strap

Carry Case only

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52039678	914B	2 Instrument Carry Case
52039680	915B	3 Instrument Carry Case

Soft Carry Case

FEATURES

Designed to hold a variety of Greenlee OTDRs, Fibre Testers, Tools and accessories.

920C Soft Carry Case

- Suitable for multiple instrument storage
- Can hold up to 2 OTDRs and accessories
- Pockets for accessory and cleaning material storage
- Compact and lightweight
- Shoulder strap

Carry Case only

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52034541	920C	Soft Carry Case

ProGrip 5-in-1 Fibre Optic Stripper

FEATURES

- Precision ground stripping cavities for:
    - 2.0 - 2.4mm outer jacket
    - 2.0 - 3.0mm loose tube
    - 2.8 - 3.0mm outer jacket
    - 900µm buffer insulation
    - 900/125µm and 250/125µm buffer/acrylate
- Factory calibrated
- Dual-durometer ProGrips for improved comfort and control

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52055935	PA1171	Pro-Grip Stripper, 5-in-1 Fibre Optic

ProGrip 3-in-1 Fibre Optic Stripper

FEATURES

- Precision ground stripping cavities for:
    - 2.0mm outer jacket
    - 900µm buffer insulation
    - 250/125µm buffer/acrylate
- Factory calibrated
- Dual-durometer ProGrips for improved comfort and control

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52055938	PA1177	Pro-Grip Stripper, 3-in-1 Fibre Optic

Pro-Plus Wire Stripper

FEATURES

- High grade stainless steel lasts 5X longer
- Precision ground stripping holes offer easy, consistent jacket removal
- Strips 10-18 AWG Solid and 12-20 AWG Stranded conductors
- Cleanly shears 6-32 and 8-32 bolts
- Crimps 16-10 insulated and non-insulated terminals
- Multiple functions include plier nose, strippers, cutter, looping holes, crimper, boltre-thread/shear and spring back with low profile lock
- High Grade knives resist chipping and marring
- Looping holes and serrated nose for bending, pulling and shaping wires
- Long-life spring and low-profile lock for quick, repetitive stripping and cutting
- Vinyl cushion grip resists slipping and has an ergonomic fit

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52056546	12368	Stripper Wire (1955SS) (POP)

Economy Kevlar® Cutter

FEATURES

- Cut protective Kevlar® strands in fibre optic cable
- Hard-chromed serrated edges to easily cut through Kevlar®
- Comfortable handles with large finger openings

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52051283	PA1511	Kevlar® Cutter

Kevlar® is a registered trademark of E.I. Dupont, Inc.

SPECIFICATIONS

Weight 2oz. (57g)	
Length 7.75" (197mm)	

Economy Fibre Optic Stripper

FEATURES

- Pre-calibrated and factory set to ensure precision
- Bright orange rubber dipped handles
- Lock closure for safety and transport
- Strips 2.0 to 3.0mm fibre jacket, 900µm buffer and 125µm acrylate
- Spring loaded closure with distance stops

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52050605	PA1162	Stripper Fibre Optic 3-Level-retail

SPECIFICATIONS

Weight 3oz. (86g)	
Length 5" (127mm)	

Pocket Cable Stripper

FEATURES

- Specifically designed for stripping power and telecommunications cables from 3/4" to 1-1/2" in diameter (19mm to 40mm)
- Strips solid conductor, stranded conductor and multiple conductor cables.
- Easy blade depth adjustment
- Blade rotates for circular, longitudinal and spiral cuts

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52040895	1903	Pocket Cable Stripper
50079158	07915	Cutting Blades (Pack of 2)

SPECIFICATIONS

Weight 0.25lbs (113g)	

Universal Slitter

FEATURES

- Strips and slits 0.18 to 1.40 Inch (4.5-25mm) diameter Round Cables
- Precision stripping and slitting of rubber, PVC, nylon and most insulation materials
- Adjustable depth of cut
- Circumferential, longitudinal and spiral cuts
- Cable is supported during use
- Cable support arm edge is used to pry off thick insulation
- Laser-trimmed, stainless-steel blade for long use
- A perfect tool for mid-point taps
- Spare blade included

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52050604	PA1822	Cable Slitter 0.18-1.40 Inch Clamshell
52050563	PA2109	Replacement Blade (Qty 2)

SPECIFICATIONS

Weight 7 oz. (200g)	
Length 5.7" (145mm)	

Round Cable Cutters

FEATURES

- To cut fibre outer cable jacket
- Cuts solid or stranded cable up to AWG 6
- Precise and effortless cuts
- Round cutting form minimises cable deformation
- Both are ideal for UTP and Coax, RG58, RG59 and RG6/6Q; Use PA1175 for RG7 and RG11

PA1175

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52055936	PA1175	Pro-Grip Cutter, Contour Cable Cutter
52055940	PA1179	Pro-Grip Cutter, Dual Contour Cable Cutter

PA1179

Pocket Probe Pick

FEATURES

Probe pick for pulling wire, slicing, stripping cable and cleaning debris off terminal panels. Small and lightweight. Pen-sized with clip for carrying in pocket.

- Spudger tip
- Wire hook
- Wire stripper and slitting tooth
- Non-conductive scraping tip

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52049188	PA1915	Pocket Probe Pick/Blister

SPECIFICATIONS

Weight 3oz. (86g)	
Length 6.5" (166mm)	

open

closed

Ultimate Fibre Tool Kit

FEATURES

This Ultimate Kit contains all the slitters, strippers, and Kevlar® cutters you will need to start your fibre optic terminations. Also included is the premium 1600 Series Crimper with 3 interchangeable dies. The Ultimate Tool Bag has plenty of room for you to add your consumables.

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52050427	PA4924	Ultimate Fibre Tool Kit

SPECIFICATIONS

Dimensions	10.5" W x 10.5" L x 9.5" D
	267mm W x 267mm L x 241mm D
Weight	5.65lbs. (2.56kg)
Ultimate fibre tool Kit Includes	
PA1511	Kevlar® Cutter
PA1171	ProGrip 5-in-1 Fibre Optic Stripper
PA1162	Economy Fibre Optic Stripper
PA1161	Adjustable Jacket Stripper
PA1820	AM 25 Slitter
PA1821	AM 35 Slitter
PA1258	LC CST-mini Stripper
PA1600	1600 Series Crimp Frame
PA2044	STII Type Die Set
PA2664	SMA/SMB/FC/BICONIC Die Set
PA2668	SC & ST Die Set
PA1922-1	Fibre Optic Scribe
PA1920-1	SC/ST/FC Polishing Puck
PA1926-1	LC Polishing Puck
N/A	Plano® Tackle Box
PA4923	Ultimate Tool Bag

FiberReady Tool Kit

FEATURES

This kit contains an assortment of cable slitters, strippers and Kevlar® cutters to prep fibre optic cable along with our 1600 Series premium crimper with interchangeable dies.

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52050428	PA906001	FiberReady Tool Kit

SPECIFICATIONS

Dimensions	11.7 "W x 8.2" L x 3.3" D
	297mm W x 208mm L x 84mm D
Weight	3.1lbs. (1.41kg)
FIBERREADY Tool Kit Includes	
PA1511	Kevlar® Cutter
PA1171	ProGrip 5-in-1 Fibre Optic Stripper
PA1822	Universal Cable Stripper
PA1600	1600 Series Crimp Frame
PA2044	STII Type Die Set
PA2664	SMA/SMB/FC/BICONIC Die Set
PA2668	SC & ST Die Set
N/A	Zippered Portfolio Case with Handles

Kevlar® is a registered trademark of E.I. Dupont, Inc.

Fibre Optic Termination Kit

FEATURES

• Contains all of the tools and consumable materials necessary for epoxy and polish connector terminations

• Durable Cordura® Plus carrying case protects and organizes tools and includes see-through pouches for storing connectors

• Outside pockets provide convenient storage of instruction manuals or worksite documents

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50456580	45658	Fibre Optic Termination Kit

KIT CONTENTS

KIT CONTENTS MAY BE PURCHASED SEPERATELY	
PA1511	Fibre Optic Kevlar® Cutter
PA1177	3-in-1 Fibre Optic Stripper
PA1922	Fibre Optic Carbide Tipped Scribe
1955SS	Pro-Plus Wire Stripper, 10-18 Solid AWG
45637	Kwik Cycle® 8" Crimp Frame with 0.151", 0.178", 0.213" Hex Cavities
45599	Stainless Steel Polishing Puck
45612	Resilient Polishing Pad, 3" x 8" (7.6 x 203.2mm)
45651	Fibre Optic Inspection Microscope
45639	Carry Case
PA2664	SMA/SMB/FC/BICONIC Die Set
PA2668	SC & ST Die Set
PA1922-1	Fibre Optic Scribe
PA1920-1	SC/ST/FC Polishing Puck
PA1926-1	LC Polishing Puck
N/A	Plano® Tackle Box
PA4923	Ultimate Tool Bag

Kit includes the following consumable items which are not sold separately:

100 Lint-free Wipes	50 Sheets Polishing Paper, 1 micron
10 Alcohol Wipes	50 Sheets Polishing Paper, 5 micron
1 Alcohol Bottle	10 ml (0.34 oz.) Opticure Adhesive
1 Water Bottle	26 ml (0.9 oz.) Opticure Primer
1 Fibre Debris Disposal Container	1 Pair Safety Glasses 10 Syringes
1 Plastic Utility Box 10 Needle Tips	1 Felt-tipped Marker
50 Sheets Polishing Paper, 0.3 micron	

Introduction

Greenlee Communications Ltd is pleased to be partnering with ITW Chemtronics® to provide cleaning products which compliment our test equipment and provide a complete solution for the installation and maintenance of fibre networks, covering requirements to Inspect, Clean & Test.

FOCCUS™ - Fibre Optic Combination Cleaning Universal Systems™ – Why is it important?

Over the last decade we have not only seen an increasing demand for speed of transmission but also a requirement for delivery of larger and larger amounts of data. Rapidly growing demand for high speed internet access, Home Entertainment, IPTV, HD and gaming is adding to the increasing bandwidth requirements of business transmissions and back-haul for mobile transmission. More and more, this is being supported by fibre as the fastest transmission media.

However, the fastest link is also the potential weakest link. Soiled connections or those that are not cleaned effectively can reduce transmission speeds.

Precision cleaning a fibre optic connection is the first step to network reliability and ultimately customer satisfaction.

If there is a weak link in a fibre optic network or installation it is likely to be the condition of the end-face of the fibre connector as the signal passes through it.

There are a wide range of potential contaminants or soils that can cause problems on a fibre end-face – not all contaminants are simply dust. These contaminants can extend to the vertical part of the ferrule and can migrate to the contact area where the fibre connectors mate.

What you need is a simple, repeatable cleaning method that removes all potential soils quickly and effectively.

This is provided by the Combination Cleaning Process™, which uses a small amount of precision solvent and automatically dries the end face as an integral part of the cleaning operation. The high-reliability, first time cleaning of the Combination Cleaning Process™ provides a safety net for the installer.

The Significance of Solvent Selection:

- The best selection is one that cleans the widest range of soils – not just dust
- The best performing cleaning solvents are precision hydrocarbons such as Electro-Wash™ "PX" or "MX". A solvent based on HFE7100 and IPA is not as effective
- Even 99.9% proof IPA does not remove all soils – it is chemically disadvantaged
- The future of global precision cleaning may be an Aqueous Cleaner such as Fiber-Wash™ (which is patented)

Cleaning Kits

CFK1013 I&M Cleaning Kit

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52061805	CFK1013	I&M Cleaning Kit

CONTAINS

- 1 QbE® Cleaning Platform
- 2 Electro-Wash® MX Precision Cleaning Pens
- 50 x 2.5mm Swabs with X'Tenders™
- 5 Electro-Wash® MX pre-saturated wipes
- Lint-free Wipes
- Instructions & Carry Case

CFK1003 Construction Kit (for fusion splicing applications)

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063012	CFK1003	Construction Kit (for fusion splicing applications)

CFK1003 – Includes all products necessary to clean fusion splicers and fibre optic connectors and cables. The precision hydrocarbon cleaning solvent included in the kit may improve electrode life.

CONTAINS

- 1 QbE® Cleaning Platform
- 2 Electro-Wash® MX Precision Cleaning Pens
- 50 x V-Groove and Ferrule Cleaning Swabs
- 50 x 2.5mm Swabs with X'Tenders™
- 1 x Fusion Splice Mirror Cleaning Swabs
- 5 Electro-Wash® MX pre-saturated wipes
- Lint-free Wipes
- Instructions and Carry Case

CFK-1202 FTTx Cleaning Kit

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063013	CFK1202	FTTx Cleaning Kit

CFK1202 – For FTTx applications – Includes swabs, wipes and cleaning solvents for ALL end face cleaning needs. The pQbE® platform cleans SC/LC (UPC and APC), MTP® type, Corning® OptiFit® and E2000 Geometry connectors.

CONTAINS

- 1 pQbE® Cleaning Platform
- 2 Electro-Wash® MX Precision Cleaning Pens
- 100 2.5mm Swabs with X'Tenders™
- 50 x 1.25mm Precision Swab Tools
- 25 "MT" Type Swab Tools
- 5 Electro-Wash® MX pre-saturated wipes
- Lint-free Wipes
- Instructions and Carry Case

CCK-01 Combination Cleaning™ Kit

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52060687	CCK-01	Combination Cleaning™ Kit Contains 1 MX Pen & 1 SqR™

CCK-01 – Combination Cleaning™ "To-go". The compact Kit includes both cleaning solvent and platform, which fits easily into a tool box, equipment case or pocket.

CCK-03 Combination Cleaning™ Kit

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52060963	CCK-03	Combination Cleaning™ Kit Contains 1 MX Pen, 1 SqR™ & 2.5mm Swabs

CCK-03 – Compact and portable kit – includes swabs, wipes and solvent for end face cleaning

Kit contents will vary – please see information provided below

Connector Cleaning Platforms - Portable and efficient, complete removal of microscopic contaminents

QbE   Cleaning Platform - Large, flat continuous FiberSafe™ cleaning platen

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52061801	QbE	Cleaning Platform

QbE® - The original device for the Combination Cleaning Process™. To be used with the Electro-Wash® MX Pen or Fiber-Wash™ Pen, the QbE® has the largest cleaning surface of any fibre optic cleaning platform. 200 wipes can clean up to 800 end faces using the Combination Cleaning Process™.

pQbE   Cleaning Platform - Precision wipe platform for cleaning recessed fibre optic end faces

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52061802	pQbE	Cleaning Platform

pQbE® - Combination Cleaning Process™ - use with Electro-Wash® MX Pen or Fiber-Wash™ Pen. The see through package shows the remaining wipes, whilst the water-proof packaging is weather resistant, is pocket sized and includes a convenient clip to attach a tool belt.

For FTTX applications, the pQbE® unique platen enables cleaning of the vertical as well as the end-face of the ferrule and will clean SC/LC (UPC and APC), MT-type, Optifit® and E-2000 end-faces.

Raised, ridged FiberSafe™ cleaning platen, conforms to recessed connectors end face. Contains 200 wipes.

QbE®-QS   Aqueous Cleaning Platform - Includes an easy-to-use, integrated cleaning solvent

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52063014	QbE-QS	Cleaning Platform

QbE®-QS - Includes an easy-to-use, integrated cleaning solvent – the Fiber-Wash™ Aqueous Cleaner works as well as precision hydrocarbons on a wide range of contaminants. Includes an on-board moistening system, with the Fiber-Wash™ Aqueous Cleaner. Contains 200 wipes.

QbE®-2   Cleaning Platform - Precision wipe platform for fibre optic end faces

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52066140	QbE-2	200 Wipe Cleaning Platform

QbE®-2 - Combination Cleaning Process™ - use with Electro-Wash® MX Pen or Fiber-Wash™ Pen. The see through package shows the remaining wipes, whilst the water-proof packaging is weather resistant, is pocket sized and includes a convenient clip to attach a tool belt. Contains 200 wipes.

Cleaning Pens

Electro-Wash® MX Precision Cleaning Pen

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52061803	FW2150	Electro-Wash® MX Precision Cleaning Pen

A high-performance precision hydrocarbon, which outperforms most HFE-7100 solvents cleaning the widest range of contaminants, with approximately 300 applications (<1ml) per pen.

Fiber-Wash™ Aqueous Fibre Optic Cleaning Pen

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52061804	FW2190	Aqueous Fibre Optic Cleaning Pen

Works as well as the precision hydrocarbon MX Pen on a wide range of contaminants, with approximately 300 applications (<1ml) per pen.

Cleaning Wipes

FSA Splice Wipes (Aqueous) - Impregnated lint free wipes

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52066141	FSA Splice Wipes	75 Impregnated lint free wipes

Aqueous impregnated wipe eliminating the need for Isopropol Alcohol (IPA). A useful tool in the preparation of fibre prior to splicing.

Cleaning Swabs

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52060964	48042F	2.5mm Reticulated Foam Precision Swab (Tube of 50) 6.8cm in length
52060965	25125F	1.25mm Swabs (Tube of 15) 15cm in length
52066138	25183	2.5mm Fibre Optic Swab (100) 15cm in length
52066139	25123X	1.25mm Fibre Optic Swab (100) 15cm in length

FOCCUS™, Fibre Optic Combination Cleaning Universal Systems™, Combination Cleaning Process™, X'Tenders™, and Fiber-Wash™ are trademarks of ITW Chemtronics. All rights reserved.

Chemtronics®, QbE®, and Electro-Wash® are registered trademarks of ITW Chemtronics. All rights reserved

Connector Cleaning System (Dry Method)

FEATURES

- Special lint-free fabric-on-a-reel quickly cleans ferrule endfaces of dust, oil and other contaminants
- Cleaning system is completely self-contained
- Dry Cleaning Method
- A single cleaning reel can be used for over 400 ferrule cleanings
- ReelCleaner™ can be used on all connector types including MTP and MT-RJ

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50606925	60692 948	Reel Cleaner Connector Cleaning System
50107925	10792 948/2	Replacement Reel Set 2 Pack

Adaptor Cleaning Wands

FEATURES

- Specially-created, lint-free materials clean hard-to-reach fibre optic interfaces, bulkhead adaptors and ferrule alignment sleeves

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50605713	60571	946 Fibre Adaptor Cleaning Wands/PK 10
50606895	60689	946/K Adaptor Cleaning Wands 200PC
50606901	60690	947 Adaptor Cleaning Wands Pack of 10 PCS
50606918	60691	947/K Wand, Cleaning, 1.25mm, Box/200

Fibre Optic Scribe

FEATURES

- Pen-type scribe with screw-in non-reversible carbide tip
- Wedge shaped tip
- Pocket-clip
- Stainless steel barrel

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52050965	PA1922-1	Fibre Optic Carbide Scribe

SPECIFICATIONS

Weight 2oz. (57g)
Length 5.25" (197mm)

Fibre Optic Polishing Pucks

FEATURES

- Manufactured from aluminium with tungsten coating
- Cleaner than conventional plastic pucks because less debris left behind
- Double the lifetime of conventional plastic pucks

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
52051275	PA1920-1	Polishing Puck Fibre (ST, FC)
52051276	PA1926-1	Polishing Puck Fibre (LC)

SPECIFICATIONS

Weight 2oz. (57g)
Length 7.75" (197mm)

Fibre Optic Co-Polymer Polishing Puck

FEATURES

- Used for standard ST, SC and FC connectors with 2.5mm ferrules

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50455982	45598	Fibre Optic Co-Polymer Polishing Puck

Fibre Optic Stainless Steel Polishing Puck

FEATURES

• Used for standard ST, SC and FC connectors with 2.5mm ferrules
• Made of stainless steel to last for years of termination
• Precision hole prevents even the slightest misalignment
• Grooves in the puck's surface eliminate "sticking" during wet polishes

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50455990	45599	Fibre Optic Stainless Steel Polishing Puck

Fibre Optic Polishing Pad

FEATURES

• Resilient pad is perfect for PC (physical contact) pre-radiused ferrules
• 3" x 8" (7.6 x 203.2mm)
• 70 durometer

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50456126	45612	Fibre Optic Polishing Pad

Fibre Optic Inspection Microscope

FEATURES

• High-powered microscope is used to check a connector's endface for excess epoxy, core or cladding chips or other irregularities that degrade optical performance of the connector
• Laser safety filter protects eyesight
• Rubber eyecup for comfortable use
• Rugged aluminium housing
• 200X magnification
• Universal adaptor works with ST, SC or FC connectors
• Includes padded nylon carrying case

ORDERING INFORMATION

PART No.	CAT. No.	DESCRIPTION
50456512	45651	Microscope (200X)

Notes

Notes

GREENLEE®

COMMUNICATIONS

A Textron Company

Greenlee Communications Ltd
Suite 8, Brecon House
Llantarnam Park
William Brown Close
Cwmbran
NP44 3AB
South Wales
United Kingdom

Tel: +44 (0) 1633 627710
Fax: +44 (0) 1633 627711
emeasales@greenlee.textron.com
www.greenlee.com

MA 05.14