United States Army Ground Tactical
TFOCA® OTDR/Light Source - Power Meter/ Cleaning & Inspection Test Platform Kit Content Details

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Corresponding To:

KITCO Kit # 0831-8245

TFOCA Reel

VIAVI One Advisor 800 OTDR

HQRCs

1

The following slides describes every component of the recently updated 0831-8245 TFOCA II® Ground Tactical OTDR/Light Source -Power Meter/Cleaning & Inspection Test Platform Kit. Before each student experiences "hands-on" training a brief overview of the entire 0831-8245 Kit and the HQJ (High Quality Jumpers) theory & proper operation & handling will be given. A package of various materials will be left with each student consisting of CDs, & DVDs for future reference.

Please call KITCO' Training Coordinator at 866 643-5220 to sign-up for our "hands-on" TFOCA II® Training Course.

A "certification" test will be administered & each student that passes will receive a framed certificate & a wallet sized card deeming them as being "hands-on" certified on the understanding of the KITCO 0831-8245 Inspection, Cleaning, & Test Platform Kit as well as ETA Certification.

"Keeping the War Fighter in Mind"

Larry Widgeon's United States Army, Fiber Optic Leadership Mission:

My mission is to design, manufacture, and provide functional comprehensive tool kits that will allow the War Fighter to *field repair, inspect, clean, test, & maintain* TFOCA II® connectors, "Military/Commercial Connectors & Splices" - even in harsh and hostile environments. These kits shall include tools for any brand or vendor involved in the industry. In order to complete this mission KITCO must remain unbiased and not be vendor specific.
I insist that the Warfighter's situation be the highest priority.
The kits we design will allow for upgrade modules as technology or vendor installation process differences occur and are disclosed.

Safety Glasses →

Reading Glasses ↑

A sample of a termination kit & a reel of TFOCA II® fiber!

Test Platform Kit was formerly named the "Johnny Cash" Kit . KITCO had previously named some of our other kits after the Beatles (John, Paul, George, & Ringo). There is also a TFOCA II®/MFOCA Fusion Splice Kit named Quad EL. These names helped everyone remember which kit was which & we could (and still do!) have some fun with music!!

However, we can now only use the names in "regular social discourse" and absolutely no monetization is gained on our behalf by the use of any artist or artists.

This information package is being presented to the United States Army. It contains a copyrighted Bill of Materials, & other information concerning KITCO Fiber Optics relevant to the repair of TFOCA II® reels of fiber & cable assemblies & commercial fiber links.

#0831-8245 Case Configuration

The #0400-1191 Military Grade, Customized Case is designed for harsh environments. Ruggedized hinges, handles, & a watertight seal with pressure relief valve make this a perfect case to protect and transport every tool the Warfighter needs. Special straps attached to the three levels make for easy access to every tool. A "kit key" is included to inform the user as to where every tool should be placed. Heavy duty wheels & an extendable handle make transport easy.

#0831-8245 Bill of Materials w/Pictures

#0400-1191 Customized Military Grade Case	
#0700-8062 Lid Pouch w/Handle	

#0831-8245 Bill of Materials w/Pictures

#0705-54XX

One Advisor 800 Test Platform w/Touchscreen Features a built in Power Meter, Video Inspection Scope & OTDR plug-in module (850,1300, 1310,& 1550 nm)

Re-Chargeable Lithium Battery & AC Adapter Included

VIAVI - High Resolution OTDR

One Advisor 800

1 ea.

#0831-8245 Bill of Materials w/Pictures

KITCO PART #0705-5469

THE **VIAVI OLS-36V2 SmartPocket™ Quad Light Source** has two ports, one port is powered by a LASER (1310nm/1550nm) and the other by an LED (850nm/1300nm) enabling this superior unit to test single mode and/or multimode systems or TFOCA II® Reels of Fiber. The OLS-V2 is designed to be used in conjunction with the **One Advisor 800 OTDR** also found in the 0831-8245 Test Platform. This rugged unit can be powered by 2x AA batteries, 2x re- chargeable NiMH AA batteries or AC power adapter (included). The OLS-36V2 has an instant on feature as well as a high-visibility graphical display with backlight.

Light Source   **VIAVI 0LS-36V2**

QUAD LIGHT SOURCE w/ PATCH CORD PORT

#0831-8245 Bill of Materials w/Pictures

Fleet Care-EW*	Five Year Extended Warranty. Extends to five years the warranty on the VIAVI manufactured test and measurement equipment. This includes: One Advisor 800; Optical OLS-36V2
5 Year Extended Warranty	
Fleet Care-CAL*	Five Year Extended Calibration Coverage. Provide four calibrations over a five-year period for the VIAVI manufactured test and measurement equipment. This includes: One Advisor 800 and, OLS-36V2. Recommended calibration for each item is annual.
Yearly Calibration Coverage	

*No longer available for purchase as a separate line item: Each One Advisor 800 & OLS-36V2 has an extended 3 year manufacturer's Warranty & Calibration if purchased from KITCO as a #0831-8245 Kit.

#0831-8245 Bill of Materials w/Pictures

#0700-9205

AC/DC - Power
Supply

Included w/ One Advisor 800

#0831-8245 Bill of Materials w/Pictures

#0705-5468(?)

Lithium Ion Re-chargeable Battery

Included w/One Advisor 800

#0831-8245 Bill of Materials w/Pictures

#0700-5390 Flexible Cleaning Swabs for TFOCA (SG) Pins **5 packs of 25**	These Cleaning Tips are designed to clean the end-face of the TFOCA II® **Pin Terminus** without removing the front insert nest!
#0700-5391 Flexible Cleaning Swabs for TFOCA (SG) Sockets **5 packs of 25**	These Cleaning Tips are designed to clean the end-face of the TFOCA II ® **Socket Terminus** without removing the front insert nest!

#0831-8245 Bill of Materials w/Pictures

#0700-5393

Flexible Cleaning Swabs for1.25mm LC Connectors

These Cleaning Tips are designed to clean the end-face of any 1.25mm LC Connector

5 packs of 25

#0831-8245 Bill of Materials w/Pictures

#0700-5394

Flexible Cleaning Swabs for TFOCA (FG), Biconic Pins & Sockets

These Cleaning Tips are designed to clean the end-face of the TFOCA (I), Dual Biconic **Pins & Socket Termini** without removing the front insert nest!

5 packs of 25

#0831-8245 Bill of Materials w/Pictures

#0700-5175 Fiber Optic Cleaning Fluid	
Item 16 1 ea.	
#0700-5165 Fiber Optic Cleaning Wipes	
Item 17 1 ea.	

#0831-8245 Bill of Materials w/Pictures
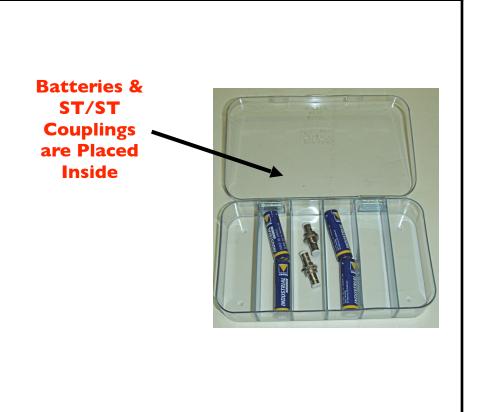
#0700-9875

6-Chamber Plastic Box

Batteries & ST/ST Couplings are Placed Inside

#0831-8245 Bill of Materials w/Pictures

P5000i Microscope Probe

#0700-8668
Unites States Army
Military/Commercial
Inspection Probe

#0831-8245 Bill of Materials w/Pictures

#0700-8780

ProbeTips for Viewing
2.5mm (ST, SC, & FC)
Patch Cord
Configuration

#0700-8784

Probe Tips for Viewing LC
Patch Panel
Configuration

*This can be done without disasembling the Multiple Termin

#0831-8245 Bill of Materials w/Pictures

	#0700-8783 Probe Tips for Viewing SC **Patch Panel** Configuration
	#0700-8782 Probe Tips for Viewing ST **Patch Panel** Configuration

"Keeping the War Fighter in Mind"

#0831-8245 Bill of Materials w/Pictures

#0700-8781 Tips for Viewing 1.25mm (LC) **Patch Cord** Configuration	

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#0700-8776
Probe Tips for Viewing
TFOCA II ® Pins &
Sockets*

*This can be done without taking apart the Multiple Termini Plugs or Receptacles!

#0700-8776

1 ea.

#0831-8245 Bill of Materials w/Pictures

#KFO 11300

ST/ST HQRCs w/Attached
Lanyard Dust Covers
High Quality Reference Cable

1 Meter

#0204-4070

Singlemode Quality ST
to ST Coupling Adapter

#0831-8245 Bill of Materials w/Pictures

#KFO 80050

ST/TFOCA II®

High Quality Launch Cable

4-Channel, 62.5/125

15 Meters

#0831-8245 Bill of Materials w/Pictures

#KFO 80040
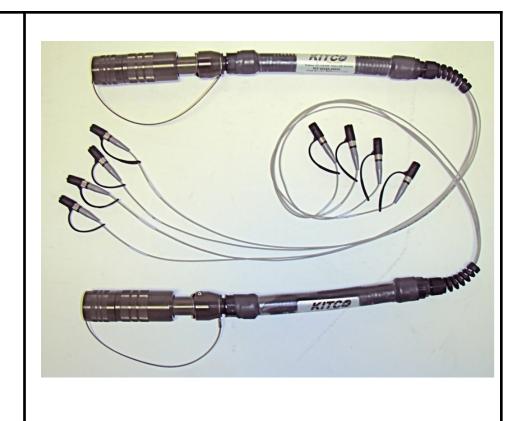
Multimode

ST/TFOCA II® HQRC

High Quality Reference Cable

4-Channel, 62.5/125, ! Meter

1 meter

#0831-8245 Bill of Materials w/Pictures
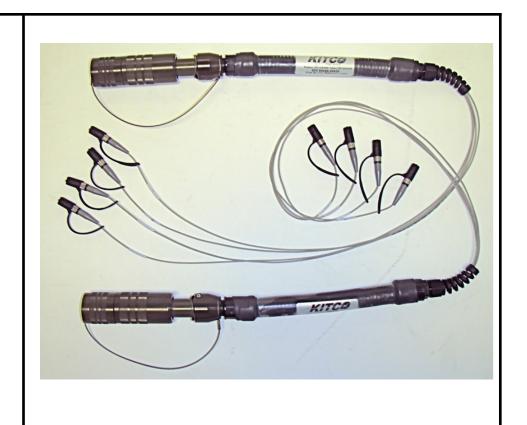
#KFO 80045
Singlemode

ST/TFOCA II® HQRC

High Quality Reference Cable

4-Channel, 9/125

1 meter   2 ea.

#0831-8245 Bill of Materials w/Pictures

0705-5330 ST - to - SC Multimode HQRC 1 Meter 2 ea.	
KFO 80087 ST - to - LC Multimode HQRC 1 Meter 2 ea.	

#0831-8245 Bill of Materials w/Pictures

KFO 80081

ST - to - LC
Singlemode
HQRC

1 Meter   2 ea.

#0831-8245 Bill of Materials w/Pictures

Additional Specifications for Items # 34 (#0200-2610) & Item #35 (#0200-2660), Singlemode Hybrid Coupling Adapters

These singlemode quality hybrid adapters allow the Warfighter to connect standard "ST-Style" connector interfaces with SC, LC or FC interfaces. This will allow the technician to check patch panels that have other styles of connectors other than "ST-Style." These adapters function with either multimode or singlemode applications.

#0831-8245 Bill of Materials w/Pictures

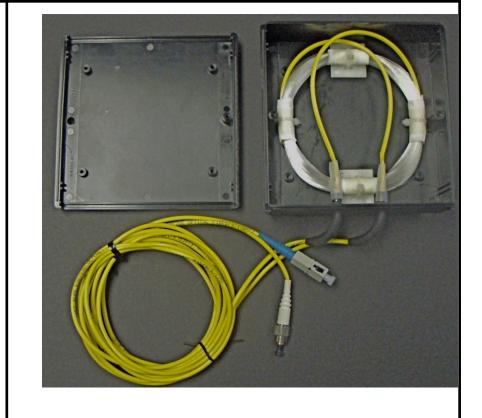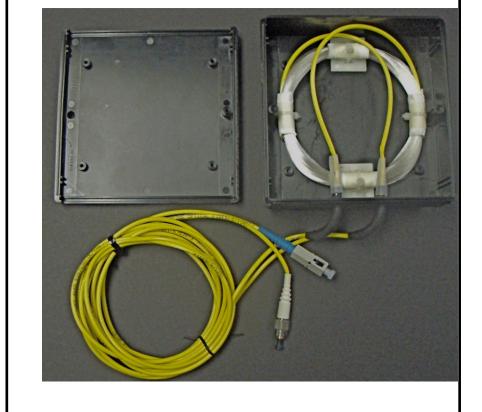| #0204-1060 ST - to - SC Singlemode Hybrid Coupling Adapter 2 ea. | |
| #0200-2637 ST - to - LC Singlemode Hybrid Coupling Adapter 2 ea. | |

#0831-8245 Bill of Materials w/Pictures

#0705-5490

50 Meter OTDR
Dead Zone
Elimination Box

1 ea.

#0831-8245 Bill of Materials w/Pictures

#0705-5491

100 Meter OTDR
Dead Zone
Elimination Box

1 ea.

#0831-8245 Bill of Materials w/Pictures
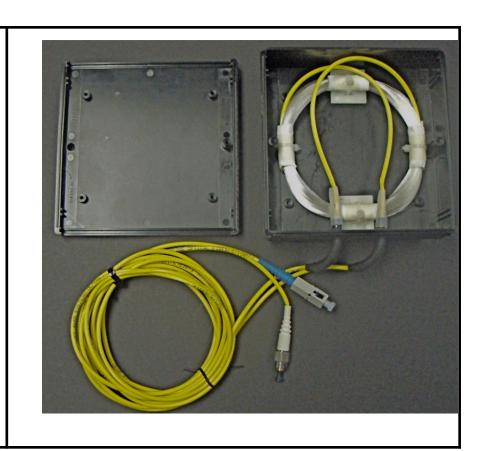
#0705-5492

500 Meter OTDR
Dead Zone
Elimination Box

1 ea.

#0831-8245 Bill of Materials w/Pictures

Additional Specifications for Items # 37 (0705-5490), Item #38 (#0705-5491), & Item #39 (#0705-5492) Pulsewidth Setting & Dead Zone Elimination Boxes

These Dead Zone Elimination Boxes allow the Warfighter to accurately test extremely long runs of commercial fiber links. Each box is specifically designed to eliminate both "attenuation & event dead zones" due to the length of the pulse width that the OTDR is emitting. The boxes consist of 250 micron, acrylate coated fiber, protected inside a sturdy box. A singlemode, simplex jumper is fusion spliced inside the box with "ST-Style", singlemode connectors on each end. One end is attached to the OTDR & the other to end "A" of the fiber under test. Now the proper pulse width can be accurately set to gather pertinent data along the entire length, up to approximately 60 miles!
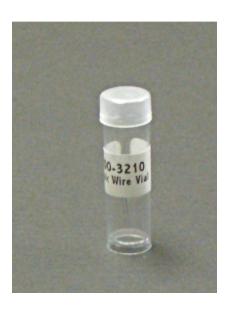
#0831-8245 Bill of Materials w/Pictures

#0731-1200

Range Finder

1 ea.

#0831-8245 Bill of Materials w/Pictures

#0700-3210

Cleaning Wire (1 Vial)

1 ea.

#0831-8245 Bill of Materials w/Pictures

Additional Specifications for Items #41, (#0200-2640), Bare Fiber Adapter
& Item #42 (#0700-3210)

This #0200-2640 Bare Fiber Adapter is used to attach the One Advisor 800 (or any other OTDR) to a reel of fiber without having to actually place a connector on the fiber. This is done by stripping the fiber a certain dimension, pushing a button on the side of the bare fiber adapter & feeding the fiber into it. The technician then pulls the fiber back gently until it is even with the end-face of the adapter. Now the Warfighter can simply attach this to end "A" of the reel of fiber and shoot the reel to make sure of its integrity before splicing on a "pigtail" or connectorizing with the proper connector, plug, or receptacle. Occasionally the fiber may break off in the bare fiber adapter but the small glass fragment can be easily removed by using Item #42 (#0700-3210), Cleaning Wire.

#0831-8245 Bill of Materials w/Pictures

#0200-2640

Bare Fiber Adapter

1 ea.

#0831-8245 Bill of Materials w/Pictures

#0100-8245

Kit Key for #0831-8245 Inspection, Cleaning & Test Platform

1 ea.

KITCO fiber optics

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