

C880 QUAD Certification Test Kit



Combining two C840 Certification Testers, the Noyes C880 QUAD Certification Test Kit from AFL Telecommunications is designed for testing and troubleshooting both multimode and single-mode fiber links. Each tester includes an integrated Visual Fault Locator (VFL, 650 nm), both single-mode (Laser 1310/1550 nm) and multimode (LED 850/1300 nm) Optical Light Sources (OLS), and an Optical Power Meter (OPM). Each tester may be used alone as a traditional power meter, light source or visual fault locator.

In Auto Test mode, the user may perform certification tests to one of the industry cabling standards (TIA, ISO, EN), one or more application standards, or a user-defined loss/length limit. Certification reports may be generated based on the selected standards and rules using PC reporting software. The transfective touch screen display of the C840 tester is suitable for both indoor and outdoor operation. Thousands of test results may be stored internally for transfer to a computer via a USB cable or a standard USB drive. Once test data is transferred to a computer, the supplied Windows® compatible software allows technicians to view, print, and generate professional certification reports.

Features

- Handheld, 0.9 kg (2 lb)
- Integrated OPM, OLS, and VFL (650 nm)
- OLS sources:
 - LED - 850/1300 nm
 - Laser - 1310/1550 nm
- Dual-wavelength certification Pass/Fail
- Two fibers bi-directional and single fiber testing
- Transfective (indoor/outdoor) touch screen display
- Tool-free, switchable test port adapters
- Rechargeable Li-Ion battery (> 8 hours) or AC power
- USB host and function ports
- Internal (1000s tests) and USB storage
- Windows® compatible software

Applications

- Tier 1 testing of premise networks
- Bi-directionally measure loss and length of fiber links
- Save time simultaneously testing two fibers at two wavelengths
 - MMF 850/1300 nm
 - SMF 1310/1550 nm
- Verify polarity
- Certify SM and MM networks to industry standards (ISO/TIA/EN) and applications
- Find faults using integrated Visual Fault Locator
- Create and test to user defined rules
- Review Pass/Fail feedback after each test
- Review fibers by cable and retest fiber pairs if needed
- Create professional certification reports



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Ordering Information

Each C880 kit or C840 kit includes two (2) C840s or one (1) C840 Tester respectively, USB Flash drive, PC software for OTDR trace analysis and certification or OPM loss reporting, AC adapters (two (2) with C880 kit, one (1) with C840 kit), switchable test ports adapters, and accessories (see table below).

MODEL	CARRY CASE	TEST CORDS ²	ADAPTERS			CLEANING PRODUCTS
			OLS	OPM	VFI	
C880-100-LP1-S1	Soft case	SC/LC	SC, ST, LC	SC, 2.5, 1.25mm	2.5, 1.25mm	One-Click Cleaner SC/ST/FC, 2.5mm One-Click Cleaner LC, 1.25mm
C880-100-LP1-S2	Soft case	SC/ST	SC, ST, LC	SC, 2.5, 1.25mm	2.5, 1.25mm	One-Click Cleaner SC/ST/FC, 2.5mm
C840-100-LP1-S1	Soft case	—	SC, ST, LC	SC, 2.5, 1.25mm	2.5, 1.25mm	One-Click Cleaner SC/ST/FC, 2.5mm

C880—100—LP1—S1 (or S2) C880 Kit Contents

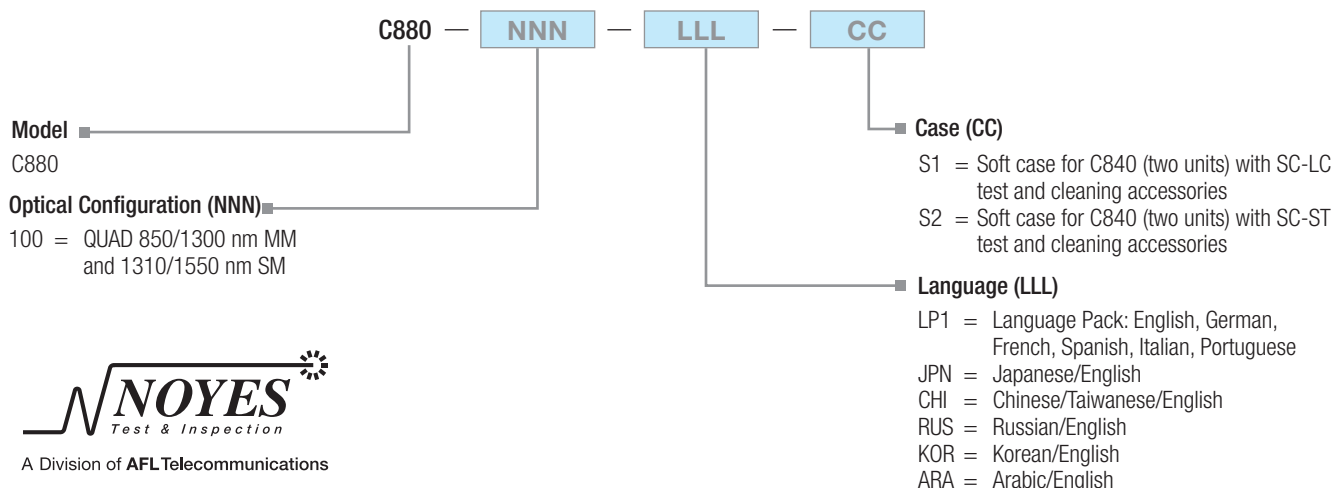
ITEM	DESCRIPTION
C840	QUAD Auto Test Certification Tester (2 ea)
Adapters	OLS Ports — SC, ST, LC OPM port — SC, 1.25 and 2.5mm Universal VFI port — 1.25 and 2.5mm Universal
Jumpers (12)	2 m (62.5 μm, 50 μm, SM)
Miscellaneous Accessories	Mandrels (2) — 62.5μm, 3mm jacket Mandrels (2) — 50μm, 3mm jacket Stylus pens for touch screen USB thumb drive -1G, USB to mini-USB cable AC adapters (2), specify country of use
Cleaning Accessories	(2) One-Click Cleaner SC/ST/FC, 2.5mm (S1 and S2 kit) One-Click Cleaner LC/MU, 1.25mm (S1 kit only)
Cases	Soft case (2)
Report Software	PC software and user guide

Optional Cleaning Accessories

MODEL NUMBER	DESCRIPTION
8500-20-0900	Wet Cleaning Kit for SC/FC/ST/LC Connectors
8500-05-0001MZ	One-Click Cleaner SC/ST/FC
8500-05-0002MZ	One-Click Cleaner LC/MU
8500-10-0017MZ	Replacement tape for Cletop (white)

When placing an order, select options as follows: Model, Optical Configuration, Language, and Case.

Example: C880 — 100 — LP1 — S1



C880 QUAD Certification Test Kit

Specifications (All specifications valid at 25°C unless otherwise specified)

GENERAL	
Test Modes	Auto Test, OPM, OLS, VFL
Length Measurement Range	5 km (MM); 200 km (SM)
Data Storage	Internal flash memory
	USB flash drive (2.0)
	Downloadable from unit directly to PC
Data Storage Capacity	Internal > 1000 fibers
Data Transfer to PC	USB
Tool Free Adapters	Modular cleanable SC/ST/LC
Size	23 x 11 x 7 cm (8.8 x 4.3 x 2.8 in)
Weight	0.9 kg (2 lb)
Operating Temperature	-10 to +50°C, 0 to 90% RH (non-condensing)
Storage Temperature	-20 to +60°C, 0 to 90% RH (non-condensing)
Power	Rechargeable Li-Ion or AC power adapter
Battery Life ¹	> 8 hours continuous testing
Recharge Time ²	4 hours
Display	9.65 cm (3.8 in), color, transfective

- ¹ Typical, depending on display brightness.
- ² Typical, from fully discharged to fully charged state, unit may be operating. External battery charger available.

POWER METER	
Auto Test Wavelengths	850/1300 nm (MM), 1310/1550 nm (SM)
Detector Type	InGaAs 2mm
Measurement Range	+6 to -60 dBm
Accuracy ¹	±0.25
Measurement Units	dB, dBm, mW
Wavelength ID ²	Yes (to -47 dBm)
Set Reference	Yes
Data Storage	Yes
Tone Detection	Yes (to -47 dBm)

- ¹ Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.
- ² Automatic wavelength identification and switching when used with Noyes Wave ID Series Light Sources.

VISUAL FAULT LOCATOR	
Emitter Type	Laser
Safety Class	Class II FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03
Wavelength	650 nm
Output Power (nominal)	0.8 mW

LIGHT SOURCE	MULTIMODE PORT	SINGLE-MODE PORT
Available Wavelengths	850/1300 nm (nominal)	1310/1550 nm (nominal)
Emitter Type	LED	Laser
Safety Class	Class I FDA 21 CFR 1040.10 and 1040.11, IEC EN60825-1: 2007-03	
Output Power	> -20 dBm, 62.5 μm MM ¹	0 dBm, 9 μm SM
Stability (after 15 minutes warm up)	± 0.1 dB over 1 hour	± 0.07 dB over 1 hour ± 0.15 dB over 8 hours
Wave ID Transmit	Yes	
Tone Generation	270 Hz, 330 Hz, 1 KHz, 2 kHz	

- ¹ Output power will be approximately 3 dB less if a 50 μm mandrel-wrapped jumper is used instead of a 62.5 μm mandrel-wrapped jumper.



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