

## C880 QUAD Certification Test Kit



### Features

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

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 transflective 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.

### Applications

- Tier 1 testing of premise networks
- Measure loss and length of fiber links
- Certify fibers using Pass/Fail criteria of industry standards, applications and user-defined limits



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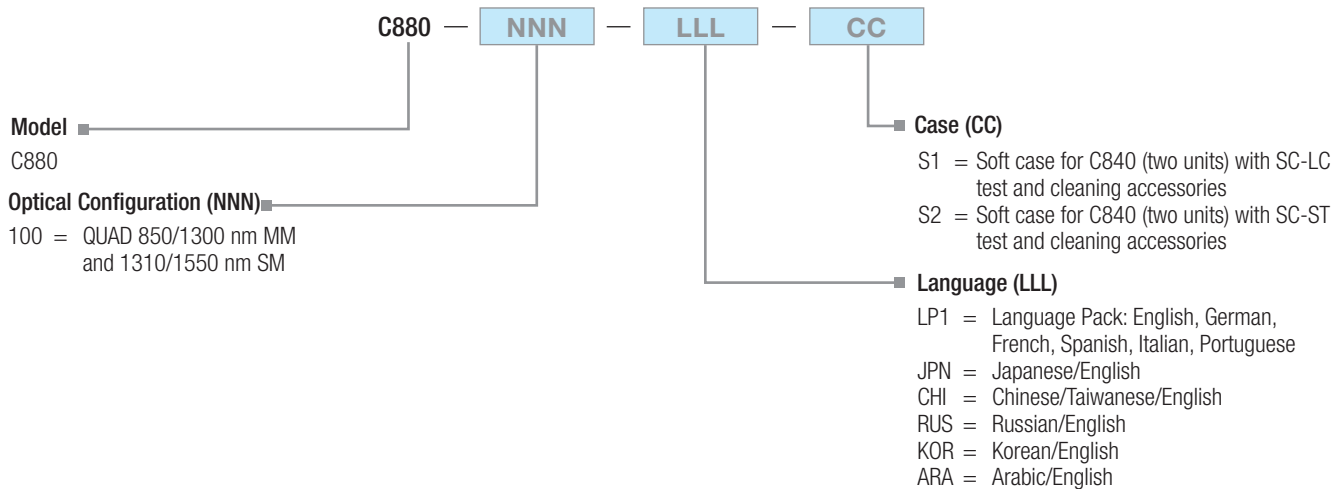
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## C880 QUAD Certification Test Kit

### Ordering Information

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

Example: C880 — 100 — LP1 — S1



### 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<br>OPM port — SC, 1.25 and 2.5mm Universal<br>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<br>Mandrels (2) — 50μm, 3mm jacket<br>Stylus pens for touch screen<br>USB thumb drive, 1G<br>USB to mini-USB cable<br>AC adapters (2), specify country of use |
| Cleaning Accessories      | (2) One-Click Cleaner SC/ST/FC, 2.5mm (S1 and S2 kit)<br>One-Click Cleaner LC/MU, 1.25mm (S1 kit only)  |
| Cases                     | Soft case (1), separable into two carry cases   |
| 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)         |



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## 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 <sup>1</sup>  | > 8 hours continuous testing               |
| Recharge Time <sup>2</sup> | 4 hours                                    |
| Display                    | 9.65 cm (3.8 in), color, transfective      |

- <sup>1</sup> Typical, depending on display brightness.
- <sup>2</sup> 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 <sup>1</sup>      | ±0.25                               |
| Measurement Units          | dB, dBm, mW                         |
| Wavelength ID <sup>2</sup> | Yes (to -47 dBm)                    |
| Set Reference              | Yes                                 |
| Data Storage               | Yes                                 |
| Tone Detection             | Yes (to -47 dBm)                    |

- <sup>1</sup> Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.
- <sup>2</sup> 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 <sup>1</sup>                             | 0 dBm, 9 μm SM                                  |
| Stability (after 15 minutes warm up) | ± 0.1 dB over 1 hour   | ± 0.07 dB over 1 hour<br>± 0.15 dB over 8 hours |
| Wave ID Transmit                     | Yes  |   |
| Tone Generation                      | 270 Hz, 330 Hz, 1 KHz, 2 kHz                                   |   |

- <sup>1</sup> 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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