

Fluke 28IIEX/ETL

Fluke 28IIEX/ETL Intrinsically Safe True-RMS Digital Multimeter User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of the Fluke 28IIEX/ETL Intrinsically Safe True-RMS Digital Multimeter. This device is engineered for precise electrical measurements in potentially hazardous environments, offering robust performance and advanced safety features.

2. SAFETY INFORMATION

WARNING: Read and understand all safety information before using this product. Failure to do so may result in serious injury or death.

2.1 General Safety Guidelines

- Always use the multimeter with the specified test leads and accessories.
- Do not use the multimeter if it appears damaged or is operating abnormally.
- Observe all local and national safety codes.
- Ensure the correct function and range are selected before making measurements.
- Avoid working alone in hazardous environments.

2.2 Intrinsically Safe Operation

The Fluke 28IIEX/ETL is designed for use in hazardous locations classified as:

- ATEX: II 2 G Ex ia IIC T4 Gb, II 2 D Ex ia IIIC T130°C Db, I M1 Ex ia I Ma
- NEC-500: Class I, Div 1, Groups A-D, 130 °C
- IEXEx: Ex ia IIC T4 Gb, Ex ia IIIC T130°C Db, Ex ia I Ma

These ratings ensure the device will not ignite explosive atmospheres under normal or fault conditions. Always ensure the device is used within its specified environmental and electrical limits for intrinsically safe operation.

2.3 Electrical Safety Ratings

The multimeter meets International Electrotechnical Commission (IEC) safety standard 61010 and is certified for:

- **Category III 1000V:** For measurements on building circuit installations (e.g., service panel parts, branch circuits, fixed installations).
- **Category IV 600V:** For measurements at the origin of the installation (e.g., electricity meters, primary over-current protection equipment).
- **Pollution Degree 2:** For indoor use.

2.4 Environmental Protection

The device is Ingress Protection (IP) certified IP67, meaning it is waterproof, dust-proof, and drop-proof, suitable for harsh industrial environments.

3. PRODUCT OVERVIEW

The Fluke 28IIEX/ETL is a robust digital multimeter designed for reliability and accuracy. It features a large LCD display with a two-level bright white backlight for visibility in various lighting conditions.



Figure 1: Front view of the Fluke 28IIEX/ETL Digital Multimeter. The image displays the device with its red protective holster, gray body, LCD screen showing '28.20 V AC', and the rotary dial for function selection. Below the dial are the input jacks for current, voltage, and common connections, along with safety warnings and certifications.

3.1 Key Features

- True-RMS measurements for accurate readings on linear and non-linear loads.

- Auto- and manual-ranging capabilities.
- Measures voltage, current, resistance, capacitance, frequency, temperature, conductance, and duty cycle.
- Performs continuity and diode tests.
- Low-pass filter for accurate voltage and frequency measurements on variable-speed motor drives.
- MIN/MAX/AVG and Peak Capture functions to record transients and measurement variations.
- Relative mode to remove test lead interference.
- Backlit keypad buttons and display for low-light conditions.
- Audible alarm for incorrect test lead connection.

4. SETUP

4.1 Battery Installation

The Fluke 28IIEX/ETL requires four (4) AA alkaline batteries for operation. To install or replace batteries:

1. Ensure the multimeter is turned OFF.
2. Remove the protective rubber holster.
3. Locate and open the battery compartment cover on the rear of the device.
4. Insert four new AA alkaline batteries, observing the correct polarity markings.
5. Securely close the battery compartment cover and reattach the holster.

4.2 Connecting Test Leads

Always connect test leads to the appropriate input jacks for the measurement being performed. The multimeter will sound an alarm if leads are connected incorrectly for the selected function.

- **COM Jack:** Connect the black test lead to the common (COM) jack for all measurements.
- **VΩHz Jack:** Connect the red test lead to this jack for voltage, resistance, frequency, capacitance, and diode tests.
- **mAμA Jack:** Connect the red test lead to this jack for current measurements up to 400mA. This input is fused.
- **10A Max Fused Jack:** Connect the red test lead to this jack for current measurements up to 10A. This input is fused.

5. OPERATING INSTRUCTIONS

Turn the rotary switch to the desired function. The multimeter defaults to auto-ranging mode, automatically selecting the correct measurement range. Press the 'RANGE' button to switch to manual ranging.

5.1 Measuring Voltage (AC/DC)

1. Connect the black lead to COM and the red lead to VΩHz.
2. Turn the rotary switch to V~ (AC Voltage) or V- (DC Voltage).
3. Connect the test leads across the circuit or component to be measured.

5.2 Measuring Current (mA/A/μA)

WARNING: Never attempt to measure current by connecting the multimeter in parallel with a voltage source. This can damage the meter and cause injury.

1. Connect the black lead to COM. Connect the red lead to mA μ A for small currents or 10A Max Fused for larger currents.
2. Turn the rotary switch to mA/A~ (AC Current) or mA/A- (DC Current).
3. Open the circuit and connect the multimeter in series with the load.

5.3 Measuring Resistance (Ω)

1. Connect the black lead to COM and the red lead to V Ω Hz.
2. Turn the rotary switch to Ω .
3. Ensure the circuit is de-energized. Connect the test leads across the component.

5.4 Continuity Test

1. Connect the black lead to COM and the red lead to V Ω Hz.
2. Turn the rotary switch to the continuity symbol (speaker icon).
3. Ensure the circuit is de-energized. Connect the test leads across the component. An audible tone indicates continuity.

5.5 Diode Test

1. Connect the black lead to COM and the red lead to V Ω Hz.
2. Turn the rotary switch to the diode symbol.
3. Ensure the circuit is de-energized. Connect the test leads across the diode. The display shows the forward voltage drop.

5.6 Measuring Capacitance (F)

1. Connect the black lead to COM and the red lead to V Ω Hz.
2. Turn the rotary switch to the capacitance symbol.
3. Ensure the capacitor is discharged before connecting the test leads.

5.7 Measuring Frequency (Hz) and Duty Cycle (%)

1. Connect the black lead to COM and the red lead to V Ω Hz.
2. Turn the rotary switch to Hz.
3. Connect the test leads across the signal source. Press the '%' button to view duty cycle.

5.8 Measuring Temperature ($^{\circ}$ C/ $^{\circ}$ F)

1. Connect the K-type thermocouple (included) to the V Ω Hz and COM jacks, observing polarity.
2. Turn the rotary switch to the temperature symbol.
3. Place the thermocouple tip on the object to be measured.

5.9 Special Functions

- **MIN MAX:** Press to record minimum, maximum, and average readings over time.
- **PEAK MIN MAX:** Captures fast transients.

- **REL Δ (Relative Mode):** Subtracts the stored reading from subsequent readings, useful for nulling out test lead resistance.
- **HOLD:** Freezes the current display reading.

6. MAINTENANCE

6.1 Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the device is dry before use.

6.2 Battery Replacement

Refer to Section 4.1 for battery replacement instructions. Replace batteries when the low battery indicator appears on the display.

6.3 Fuse Replacement

WARNING: To prevent injury or damage to the multimeter, use only specified replacement fuses with the correct amperage, voltage, and interrupt ratings.

The Fluke 28IEX/ETL has two internal fuses:

- **10A Max Fused:** For the 10A current input.
- **400mA Fused:** For the mA/ μ A current input.

Fuse replacement should only be performed by qualified personnel. Consult the full service manual or contact Fluke customer support for detailed instructions.

7. TROUBLESHOOTING

If the multimeter is not functioning as expected, review the following common issues:

- **No display or faint display:** Check batteries and replace if necessary.
- **Incorrect readings:** Ensure test leads are correctly connected, the function and range are appropriate for the measurement, and the circuit is de-energized for resistance/continuity/diode tests.
- **Current measurement not working:** Check the fuses for the respective current input (10A or 400mA). Replace if blown.
- **Multimeter does not respond:** Turn the unit off and then on again. If the issue persists, remove batteries for a few minutes and reinsert.

For persistent issues or complex problems, contact Fluke customer support.

8. SPECIFICATIONS

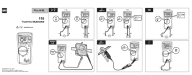
Parameter	Specification
Maximum AC/DC Current Input	10 A
Maximum AC/DC Voltage Input	1000 V
Maximum Resistance Detected	50 M Ω

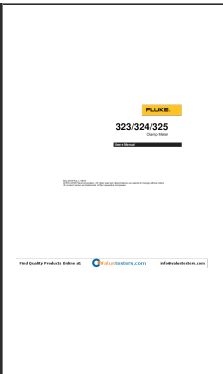
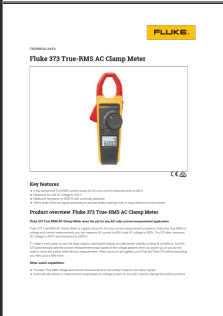
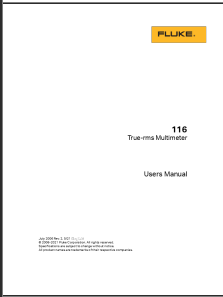
Parameter	Specification
Maximum Frequency	199.99 kHz
Maximum Capacitance	9999 μ F
Temperature Range (excluding probe)	-200 to +1090 °C / -328 to +1994 °F
Duty Cycle Range	0 to 99.9%
Display	LCD with 20,000-count resolution, two-level backlight
Power Supply	4 AA batteries (Alkaline)
Safety Ratings	ATEX, NEC-500, IEXEx, IEC 61010, CAT III 1000V, CAT IV 600V, Pollution Degree 2
Ingress Protection	IP67 (Waterproof, Dust-proof, Drop-proof)
Weight	2.85 lbs (1.29 kg)
Dimensions (L x W x H)	9.7 x 6.3 x 3.36 inches (24.6 x 16.0 x 8.5 cm)

9. WARRANTY AND SUPPORT

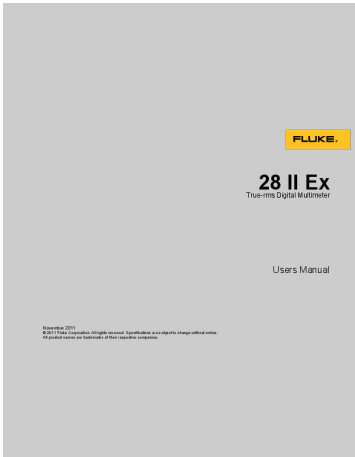
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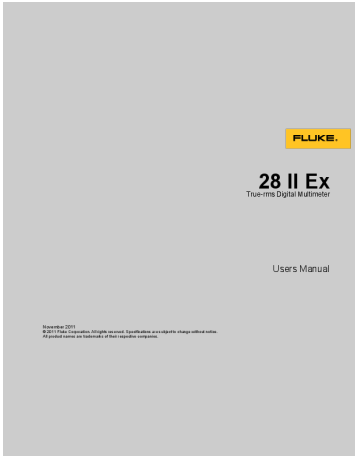
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 Fluke 116 True-rms Multimeter	Fluke 116 True-rms Multimeter: Quick Reference Guide Quick reference guide for the Fluke 116 True-rms Multimeter, detailing its functions, measurement capabilities, and usage for electrical testing.
 Fluke 179 Digital Multimeter	Fluke 179 Digital Multimeter: Maintenance and Field Service Guide Discover the Fluke 179 True-rms Digital Multimeter, designed for efficient electrical and HVAC maintenance. Learn about its features, specifications, and recommended accessories for reliable field service.

	Fluke 323/324/325 Clamp Meter User Manual Comprehensive user manual for Fluke 323, 324, and 325 clamp meters, detailing features, safety precautions, specifications, and operational guidance for accurate electrical measurements.
	Fluke 373 True-RMS AC Clamp Meter - Technical Specifications and Overview Detailed technical data, key features, product overview, specifications, and ordering information for the Fluke 373 True-RMS AC Clamp Meter, designed for AC-only current measurements up to 600 A.
	Fluke 116 True-rms Multimeter Users Manual User manual for the Fluke 116 True-rms Multimeter, covering its features, operation, measurements, maintenance, and specifications. Learn how to use this versatile digital multimeter for various electrical testing tasks.

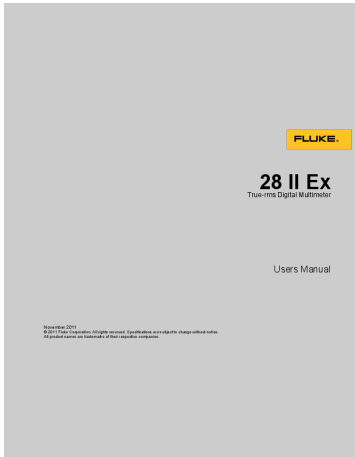
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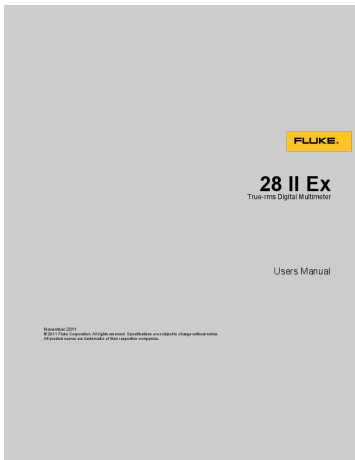
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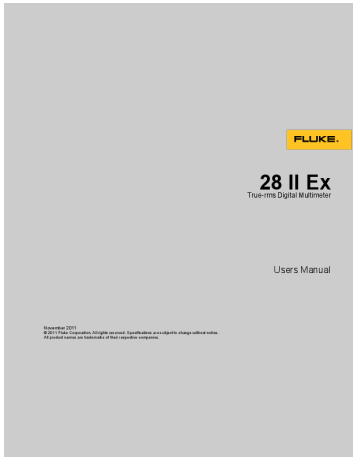
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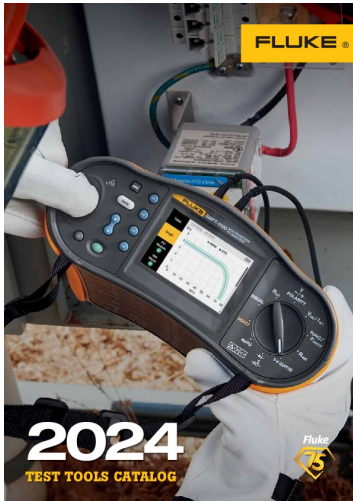
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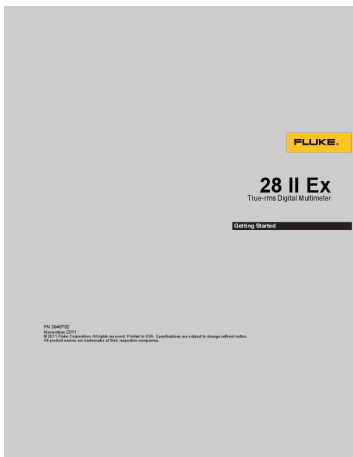
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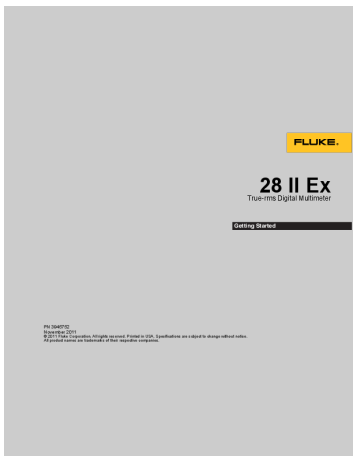
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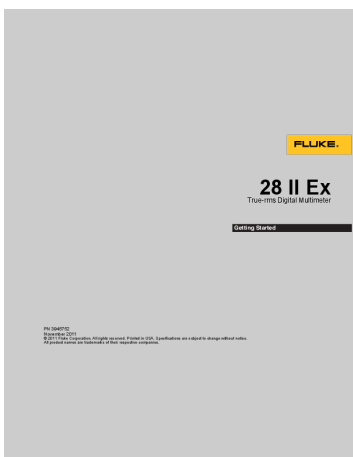
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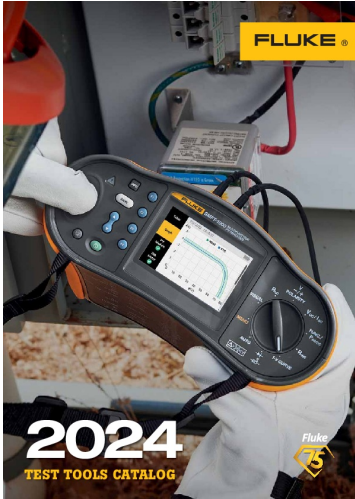


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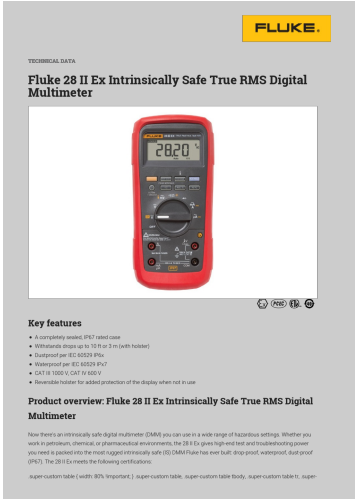
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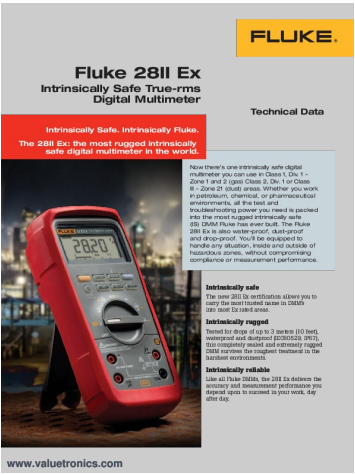


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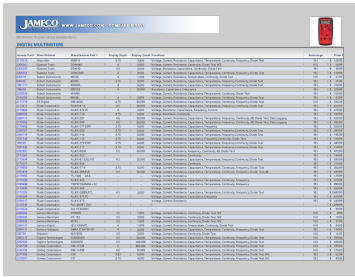
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Part# Manufacturer 2113578 ... 5/E2 KIT FLUKE-324 FLUKE-77-4 FLUKE-289/FVF

T5-1000 USA FLUKE-325 1587KIT/62MAX FC FLUKE-365 FLUKE-28IIEX/ETL

FLUKE-375 FC FLUKE-373 FLK-3000FC IND FLK-PC3000FC DT830D DT-182

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Meters Air Quality Meter Selection 76 Airflow Micromanometer FLUKE main4580 cz srsltid

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Micromanometer link to learn how Fluke tools can help with the future of power mini Operating

temperature 0° C 40° 32° F 104° Lithium ion FLUKE AfmBOopX0ZnEdfcGq2B5agnBlesRHBIAfj0jtfb

eR9dQ2dZzsJmmwgMghvtrading ion Tool Kits 181 Other M8D M 12D and 12X Search for LIQ 100 IE KIT

IEFLUKE AfmBOop9BBUa9NWD9uwAcUrilEma3RH2eRX5U6mi r3vwsO2k4z8ODxeghvtrading ||| |||

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 FLUKE-289 FLUKE-287/FVF FLUKE-289/IMSK FLUKE-289/FVF FLUKE-287
 FLUKE-28IIEX/ETL FLUKE-28II 4112830 SIVERCAREPLAN-GROUP3-4YR
 4112848 SIVERCAREPLAN-GROUP3-5YR 4112853 GOL...

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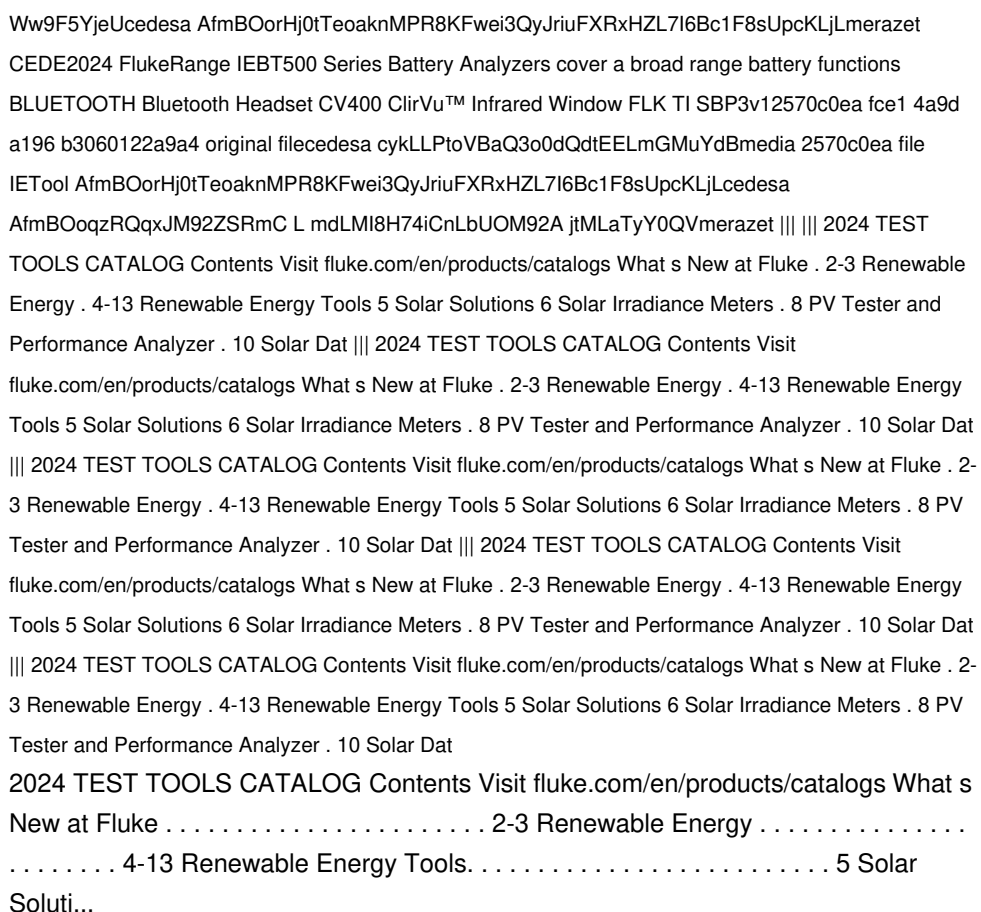


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LIQ 100 IE KIT IEv1merazet pl 2025 04 Katalog Fluke srsItid AfmBOoqa5C1h8 oXB9BQI5UhWw
cykLLPtOVBaQ3o0dQdtEELmGMuYdB test tools catalog CEDERange 50 to 1400 W m2 Resolution 1
Measuring Accuracy $\pm 5\%$ 5 Digit Temperature Measurement Range $^{\circ}\text{C}$ 30 $^{\circ}$ 100 $^{\circ}$ 22 $^{\circ}\text{F}$ 212 Tool
IEcatalogo flukev1cedesa mx catalogos catalogo fluke AfmBOorHWOypPm7eLr
owvEN2USFRG8GFeKyDmqkhImlwZzoOFHsJWNnmerazet CEDEtest 212 880g 31 oz Page 88 Included
Accessories 1623 2 Protective Holster GPS REC Receiver Antenna F17XX CABLE MARKERS Cable
Marker Kit for Tool IEv1cedesa owvEN2USFRG8GFeKyDmqkhImlwZzoOFHsJWNncedesa
AfmBOoooZLZmSTQGVJCZEKVM0N wQEBliiHtDDGDk4bWr Ww9F5YjeUmerazet for link learn how can
help with the future of power mini Operating temperature 0 $^{\circ}$ 40 $^{\circ}$ 32 $^{\circ}$ F 104 $^{\circ}$ Lithium ion Tool



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