

Manufacturer Product Number: 160136

Description (from a distributor): WC063 TELECORE HF-850 P2 032-63S

Manufacturer: Kester Solder

Product Type: Solder Wire



Series: Tele core HF-850 (Likely the flux type)**Alloy**Sn63Pb37 or similar (implied by the "63S" in the product code, which often denotes Sn63/Pb37 in Kester's old naming convention)**Diameter**\$0.032"\$ (implied by "032" in the product code, which corresponds to approximately \$0.8\$ mm)**Flux Type** Zero-Halogen / Halogen-Free No-Clean (Implied by **HF-850** which stands for **H**alogen-**F**ree)

General Properties for Closely Related Flux-Cored Solder Wire (Sn63/Pb37)

Since the specific datasheet for the 160136 part number wasn't directly available as a PDF in the search results, here are the general properties for a common, related product from Kester that aligns with the likely alloy **Sn63/Pb37** (63% Tin / 37% Lead):

Property	Value
Alloy	Sn63/Pb37 (Tin/Lead)
Melting Point	\$183^{\circ}\text{C}\$ (\$361^{\circ}\text{F}\$) (Eutectic)
RoHS Compliance	No (Contains Lead)
Common Flux Types	Rosin Activated (RA, e.g., Kester 44), Rosin Mildly Activated (RMA, e.g., Kester 285), No-Clean (e.g., Kester 275 or Telecore HF-850)

Key Features of Telecore HF-850 Flux (No-Clean)

Feature	Specification
Flux Type	No-Clean (Requires no post-soldering cleaning)
Halogen/Halide Status	Halogen-Free and Halide-Free
Residue	Clear, Non-Tacky, and minimal
Fumes/Spatter	Very low levels of fumes and very low flux spatter
Wetting Speed	Very fast wetting (a key performance benefit)
Appearance	Excellent joint appearance for easy inspection
IPC J-STD-004 Classification	ROLO (Resin, Low activity, Halide-free)
Flux Percentage (Common)	Available in 1.1%, 2.2% (P2), or 3.3% (Your part number likely uses P2 = 2.2%)

The Kester part number **160136** is for the Sn63/Pb37 alloy with the **Telecore HF-850** flux, likely with a **2.2% flux core (P2)** and a **0.032" diameter**.

Here is the combined technical datasheet information for the **ALPHA Telecore HF-850 Cored Solder Wire** with the **Sn63/Pb37** alloy:

The Telecore HF-850 is a Halogen-Free, Halide-Free, No-Clean cored solder wire designed for high reliability and fast wetting.

Property	Specification	Notes
Product Type	Cored Solder Wire	For hand and robotic soldering
Alloy Composition	Sn63/Pb37 (Tin/Lead)	Eutectic alloy

Property	Specification	Notes
Melting Point	\$183^{\circ}\text{C}\$ (Solidus/Liquidus)	The exact melting point of the eutectic alloy.
Flux Type	No-Clean, Synthetic Resin Based	Requires no cleaning after soldering.
Flux Designation	Telecore HF-850	Halogen-Free, Halide-Free formulation.
Flux Amount (Typical)	2.2% (P2)	Also available in 1.1% and 3.3%
Typical Tip Temp.	\$320^{\circ}\text{C}\$ to \$420^{\circ}\text{C}\$	\$120^{\circ}\text{C}\$ to \$160^{\circ}\text{C}\$ above the liquidus temp.
Residue	Clear, Non-Tacky, Minimal	Allows for easy joint inspection.
Spatter & Fumes	Very Low Spatter, Very Low Fumes	Operator-friendly and cleaner work environment.

Test/Property	Requirement (Standard)	Result
IPC Classification	ROLO (per J-STD-004B)	PASS
Halide Content	\$< 500\$ ppm (per IPC-TM-650 2.3.28.1)	PASS

Test/Property	Requirement (Standard)	Result
Halogen-Free	IEC 612249-2-21, JEDEC	PASS (Halogen-Free)
Surface Insulation Resistance (SIR)	$\geq 1.0 \times 10^8 \Omega$ minimum (IPC)	PASS
Bellcore SIR Test	$\geq 1.0 \times 10^{11} \Omega$ minimum	PASS
Copper Mirror Test	No complete removal of copper	PASS
Corrosion Test	No evidence of corrosion	PASS
JIS Spread Test	$\geq 80\%$ (Good spread characteristics)	PASS