

EQ-NC63 Colophony Free Cored Solder Wire Data Sheet

Description

EQ-NC63 Colophony Free Cored Solder Wire is a flux core contained in High Purity Solder Wire. EQ-NC63 contains no, resin acids, pine oil or other naturally occurring derivatives from pine trees and has been specifically designed to reduce the number of world-wide cases of industrial asthma, related to rosin usage within a cored solder wire. EQ-NC63 provides excellent wetting whilst leaving a minimal no clean, clear residue. Cleaning by batch or in-line process is not suitable, however, if residues need to be removed then there are options available which are dependant on board type etc.

Flux Type & Specification

EQ-NC63 is rosin free and formulated without the use of halides and is supplied as a 3%, 2% or 1% flux content wire.

EQ-NC63 is rated as an M-OR-L0 flux type in accordance with J-STD-004 and passes Bellcore TR-NWT-000078/J-STD-004 copper mirror corrosion requirements.

EQ-NC63 passes Bellcore TR-NWT-000078/J-STD-004 surface insulation resistance requirements.

Bellcore surface insulation resistance requirement

Hand soldered test coupons, 35°C/85%RH. 5 day test. 4 days with bias voltage.

Min req. 2 x 10 (4) Megohms

EQ-NC63 – 1 x 10 (8) Megohms

JSTD-004 surface insulation resistance requirements

Wave soldered solution, 85°C/85%RH, 7 days with bias voltage min req. 100 Megohms

EQ-NC63 – 96 hours 1.1 Gohms 168 hours 1.2 Gohms

HIGH PURITY SOLDER ALLOY

In 1994 a single European standard, EN29453 (ISO 9453), superseded all other European national standards, BS219, DIN 1707, NFC 90-550. Other equivalent international standards include QQS 571E, ASTM B32 and JIS-Z-3382. All EQ-Nc63 wires are manufactured to the highest levels of alloy purity

Wire Gauge (Diameter)

The wire gauge diameter is represented as SWG (standard wire gauge). The equivalent imperial and metric values are shown below.

SWG	10	11	12	13	14	16	18	20
mm	3.25	2.95	2.64	2.34	2.03	1.63	1.22	0.914
Inch	0.128	0.116	0.104	0.092	0.080	0.064	0.04	0.036
SWG	21	22	24	26	28	30	32	
mm	0.813	0.711	0.599	0.457	0.376	0.315	0.274	
Inch	0.032	0.028	0.022	0.018	0.014	0.012	0.010	

Packaging – Available on 500g and 3kg reels.

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