

# LEAD FREE CORE WIRE – PRODUCT DATA SHEET

**Model Numbers: D01685-D01689**

NO	Item	Specification	Standard
1	Appearance	Bright and shiny surface finishes	
2	Alloy	Sn/ Cu 0.7	JIS-Z-3282
3	Melting Point	227~228°C	DSC
4	Flux Content	3.0±1%	JIS-Z-3283
5	Halide Content	Under 0.5%	JIS-Z-3197
6	Gravity	7.3	
7	Spread Ability	>75%	JIS-Z-3197
8	Packaging	0.5, 1, 5 and 10kg Reels	JIS-Z-3283
9	Diameters Tolerances	0.3~0.6±0.05mm, 0.8~3.0±0.1mm	JIS-Z-3283
10	Features	Excellent solder joint reliability. Superior joint strength. Excellent thermal & Mechanical fatigue resistance. Low cleaning required after solder joint.	
11	Purpose	For use in applications requiring good activation.	
12	Storage, Handling and Shelf Life:	Storage must be in a dry, non-corrosive and shine environment. Avoids the oxidant, the acid and the hydrogen peroxide. Shelf life is 2 years from date of manufacture.	

## Physical Properties & Reliability Data

NO	Test Item	Test Result	Test Method
1	Copper Mirror Test	PASS	IPC-TM-650, 2.3.32
2	Copper Plate Corrosion	PASS	JIS-Z-3197, 6.6.1
3	S.I.R Test	PASS 1x10 <sup>10</sup> up	IPC-TM-650, 2.6.3.3
4	Electro Migration Test	PASS 1x10 <sup>10</sup> up	IPC-TM-650, 2.6.14.1

## Alloy Composition

Sn	Cu	Ag	Ni	Bi	Zn	Al	Sb	Fe	As	Cd	Pb	In	Au
Rem.	0.5~0.9	0.1 MAX	0~0.01	0.1 MAX	0.001 MAX	0.001 MAX	0.05 MAX	0.02 MAX	0.03 MAX	0.002 MAX	0.05 MAX	0.1 MAX	0.05 MAX

All Duratool lead free solders are compliant with restriction of hazardous substances in electrical and electrical equipment (RoHS) directive (2002/95/EC) restricting the use of Lead, Cadmium, Mercury, Hexavalent Chromium and PBB/PBDE flame retardant material in electrical and electronic products.

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