

**REFERENCE SPECIFICATIONS**

- DIN-41612
- IEC-603-2

**PHYSICAL CHARACTERISTICS**

- **INSULATOR MATERIAL:**
  - Polyester thermoplastic UL94V0 - Color grey
- **CONTACT MATERIAL:** -PHOSPHOR BRONZE : (FEMALE CONTACT )
  - PHOSPHOR BRONZE : (MALE CONTACT -SOLDER BUCKET)
  - PHOSPHORE BRONZE : (MALE CONTACT-WIRE WRAP)

**ELECTRICAL CHARACTERISTICS**

- **CURRENT RATING :** 1.5A at 20°C / 1A at 70°C 40A AT 20°C (power contact)
- **MAXIMAL CURRENT:** 2A
- **CONTACT RESISTANCE** <20mΩ <1mΩ under 10 A (power contact)
- **VOLTAGE PROOF:** contact/contact 1000 V eff (0.5 mA / 50 Hz)  
contact/ground 1550 V eff (0.5 mA / 50 Hz)
- **INSULATION RESISTANCE:** ≥10<sup>6</sup> MΩ
- **CREEPAGE AND CLEARANCE DISTANCE:** ≥1.2 mm
- **WIPPING/PLUG IN DIRECTION:** ≥1.8mm
- **ALTERNATIF CURRENT V AC:** 330 V
- **DIRECT CURRENT V DC:** 470 V

**MECHANICAL CHARACTERISTICS**

- **MATING FORCE :** ≤ n x 0.94 N (n = NUMBER OF CTS) < 10 N (power contact)
- **UNMATING FORCE :** ≥ n x 0.15 N (n = NUMBER OF CTS) < 10 N (power contact)
- **GAUGE RETENTION FORCE:** ≥0.15 N  
THICKNESS GAUGE = 0.56 0/-0.02 - SURFACE ROUGHNESS: Ra = 0.25µm MAXI
- **CONTACT RETENTION IN INSULATOR:** ≥ 20 N according to IEC 512 test 6d
- **VIBRATIONS:** < 1 µs according to IEC 512.4 test 6d  
< 40 mΩ according to DIN41640 teil 15 test 6d
 

DIN class 3	(not applicable )
DIN class 2	10-500 HZ/5g
DIN class 1	10-2000 HZ/20g
- **SHOCK:** < 1 µs according to IEC 512 test 6c  
< 40 mΩ according to DIN 41640 teil 14 test 6c

**ENVIRONMENTAL CHARACTERISTICS**

- **CLIMATIC CATEGORY:** TEMPERATURE RANGE -55°C TO +125°C  
DAMP HEAT STEADY STATE 56 DAYS Class 1  
21 DAYS Class 2  
(not applicable ) Class 3
- **ELECTRICAL LOAD AND TEMPERATURE:** T= +70°C / I= 1A PER CTS - 1000 HRS

**PERFORMANCE LEVELS** TIN LEAD P/N : 8609 XXX XX XX 7XX XXX EX  
PURE TIN P/N : 8609 XXX XX XX 7XX XX LF

MECHANICAL ENDURANCE AND INDUSTRIAL ATMOSPHERE TEST <sup>(1)</sup>		PERFORMANCE LEVELS
4	50 OPERATIONS	DIN Class 3
5	200 OP. + TEST(1) 4 DAYS + 200 OP.	DIN Class 2
6	250 OP. + TEST(1) 21 DAYS + 250 OP.	DIN Class 1

TEST: <sup>(1)</sup> INDUSTRIAL ATMOSPHERE SO<sub>2</sub>

**CONTACT PLATING FOR SOLDER BUCKET**

- TIN LEAD VERSION:
  - MALE AND FEMALE CONTACTS:
    - GOLD OVER NICKEL GOLD+PALLADIUM-NICKEL OVER NICKEL ON MATING SURFACES
    - TIN LEAD OVER NICKEL ON SOLDER BUCKET
- LEAD FREE VERSION:

**NOTE:RoHS INFORMATIONS**

- The "LF" products meet European Union Directives and other country regulations as described in GS-22-008.
- Termination plating spec: 2 µm Nickel mini, 2 µm Pure Tin mini
- Packaging spec: see GS-14-920

**CONTACT PLATING FOR WIRE WRAP**

- TIN LEAD VERSION:
  - MALE AND FEMALE CONTACTS:
    - GOLD OVER NICKEL ON MATING SURFACES
    - TIN LEAD OVER NICKEL ON WIRE WRAP
- LEAD FREE VERSION:

**NOTE:RoHS INFORMATIONS**

- The "LF" products meet European Union Directives and other country regulations as described in GS-22-008.
- Termination plating spec: 1,27 µm Nickel mini, 0,5 to 4 µm Pure Tin maxi
- Packaging spec: see GS-14-920

European Views

www.fciconnect.com		surface ISO 1302 ✓	tolerance std ISO 406 ISO 1101	projection 	mm 
TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr	GOISNARD	2005/04/13	ANGULAR	0.X ±0.1	size A3 Scale 1
Eng	TARON	2005/04/13	LINEAR	0.XX ±0.1	ECN LS07-0211
Chr	LEGARE	2005/04/13		0.XX' ±2'	
Appr	LEGARE	2005/04/13	Product family	DIN 8609	Spec ref -
		title <b>DIN 41612 SOLDER BUCKET AND WIRE WRAP</b>		dwg no <b>C-8609-0000B</b>	Rev. <b>D</b>
catalog no		-		CUSTOMER	sheet 1 of 1

rev	ecn no	dr	date
A	LS05-0039	LGO	2005/04/13
B	LS06-0097	LGO	2006/07/11
C	LS06-0201	HLE	2006/11/24
D	LS07-0211	HLE	2007/08/16
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