

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:** ≥10⁶ 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 ⁽¹⁾		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: ⁽¹⁾ INDUSTRIAL ATMOSPHERE SO₂

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	LINEAR	0.X	±0.1
Eng	TARON	2005/04/13			0.XX	±0.1
Chr	LEGARE	2005/04/13	0.XX' ±2'		0.XXX	±0.1
Appr	LEGARE	2005/04/13	Product family		DIN 8609	Spec ref -
			DIN 41612 SOLDER BUCKET AND WIRE WRAP		dwg no	C-8609-0000B
title CONNECTORS GENERAL CHARACTERISTICS			catalog no -		Rev. D	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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