

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)
 - PHOSPHOR 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 $\leq 20\text{m}\Omega$ $\leq 1\text{m}\Omega$ 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: $\geq 10^6 \text{ M}\Omega$
- CREEPAGE AND CLEARANCE DISTANCE: $\geq 1.2 \text{ mm}$
- WIPPING/PLUG IN DIRECTION: $\geq 1.8\text{mm}$
- ALTERNATIF CURRENT V AC: 330 V
- DIRECT CURRENT V DC: 470 V

MECHANICAL CHARACTERISTICS

- MATING FORCE : $\leq n \times 0.94 \text{ N}$ (n = NUMBER OF CTS) $\leq 10 \text{ N}$ (power contact)
- UNMATING FORCE : $\geq n \times 0.15 \text{ N}$ (n = NUMBER OF CTS) $\leq 10 \text{ N}$ (power contact)
- GAUGE RETENTION FORCE: $\geq 0.15 \text{ N}$
THICKNESS GAUGE = 0.56 0/-0.02 - SURFACE ROUGHNESS: Ra = 0.25µm MAXI
- CONTACT RETENTION IN INSULATOR: $\geq 20 \text{ N}$ according to IEC 512 test 6d
- VIBRATIONS: $\leq 1 \mu\text{s}$ according to IEC 512.4 test 6d
 $\leq 40 \text{ m}\Omega$ 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: $\leq 1 \mu\text{s}$ according to IEC 512 test 6c
 $\leq 40 \text{ m}\Omega$ 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	0.X	±0.1
Eng	TARON	2005/04/13	LINEAR	0.XX	±0.1
Chr	LEGARE	2005/04/13		0.XXX	±0.1
Appr	LEGARE	2005/04/13	Product family		DIN 8609
				Spec ref	-
				size	A3
				Scale	1
				ECN	LS07-0211
				Title	
				DIN 41612 SOLDER BUCKET AND WIRE WRAP	
				CONNECTORS GENERAL CHARACTERISTICS	
				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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-	-	-	-
-	-	-	-

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Components Supply Platform

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