

ITS Bayonet Connector Assemblies Louver Band Socket Contacts

These contacts series are precision-machined using high conductivity copper alloy. A stamped and formed spring ("louverband") is installed into the socket contact. The spring is made from 6 mil beryllium copper (BeCu). Testing has demonstrated that this contact system outperforms conventional aerospace-grade contact systems. The louverband spring provides many points of electrical contact with the mating pin, as opposed to a few "high spots" on a conventional four-finger contact as shown in Fig. 2. The louverband design offers lower voltage

drop for reduced temperature rise and higher current carrying capacity. In addition to its electrical advantages, the louverband also is mechanically superior to four-finger contacts. The louverband spring has consistent, stable normal force, even when subjected to thousands of mating cycles and temperature extremes.

[0.039]

14 MIN. [0.551]

1.45

0.057

12.2 MIN.

[0.48]

0.9

[0.035]

12.2 MIN

[0.48]

Ø11.48 [0.452] MIN. 2 14.34

Ø9.5 0.374

Ø6.73

0.265

Ø7.15 [0.281] MIN.

Ø4.58 [0.18] MIN.

45 [1.772]

#0 SOCKET CONTACT 83N-25016-0

#4 SOCKET CONTACT 83N-25016-4

#8 SOCKET CONTACT 83N-25016-8

41.35 1.628

40.8

1.606



Socket Contact



Figure 2. Conventional Contact on the left, LouverBand Contact on the right



Size	Wire Size	Part Number	
0	#0	83N-25016-0G10-L	
4	#4	83N-25016-4G10-L	
8 #8		83N-25016-8G10-L	

Contact Size	Current Rating		Contact	Min Separation Force	Max Average
	Rated current at +20°C (Ampere)	Rated current at +80°C (Ampere)	Resistance (mΩ Max.)	(ounces) min Diameter SAE-AS31971 pin	Engagement Force (ounces) Max Diameter SAE-AS31971 pin
0	300	250	0.2	15	320
4	160	130	0.5	10	240
8	90	70	1	5	160

© 2015 Glenair, Inc.

Ø13.18 0.519

Ø8.57 0.337

Ø6.45 0.254

U.S. CAGE Code 06324

Printed in Italy

GLENAIR, INC. • 1211 AIR WAY • GLENDALE, CA 91201-2497 • 818-247-6000 • FAX 818-500-9912 www.glenair.com E-8 E-Mail: sales@glenair.com