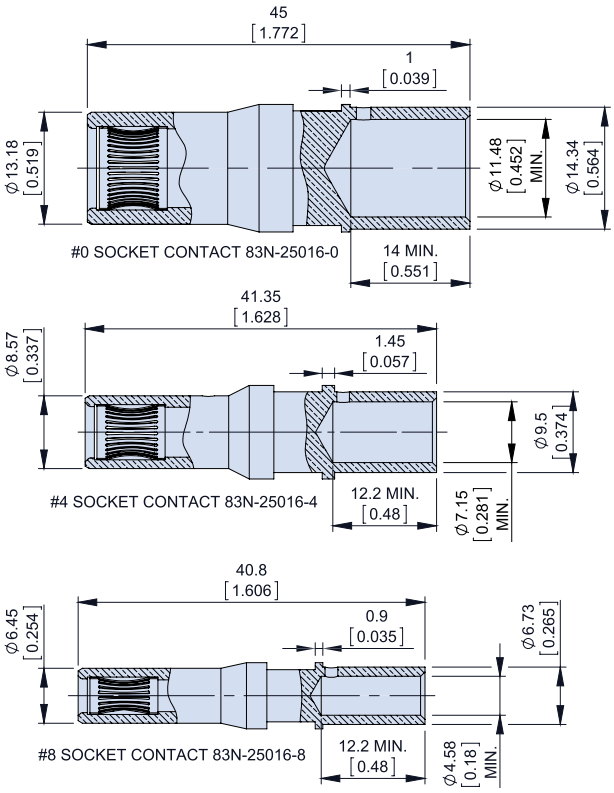
ITS Bayonet Connector Assemblies
Louver Band Socket Contacts

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.

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