

## AFLC8810310 ABC Connectors Composite Rectangular Interconnection System

# Mil-Spec Connectors & Accessories



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# Defense / Aerospace Operations ...

is the world's premier manufacturer of electrical interconnection devices for use in defense, aerospace, and commercial applications. Whether you need an interconnection device for a commercial or military aircraft, missile, tank, truck transmission or a host of other applications, Deutsch has the solution you're looking for.

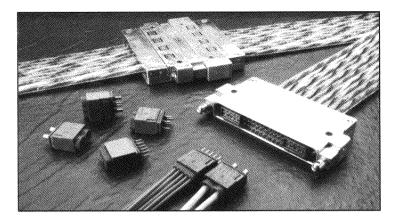
> Deutsch ECD Defense Aerospace Operations 5733 W. Whittier Ave., Hemet CA (USA) 92545 Phone 909/765-2200 • FAX 909/922-1544

# AFLC8810310

# ABC Connectors

## Composite Rectangular Interconnection System

**ABC Module Arrangements** 



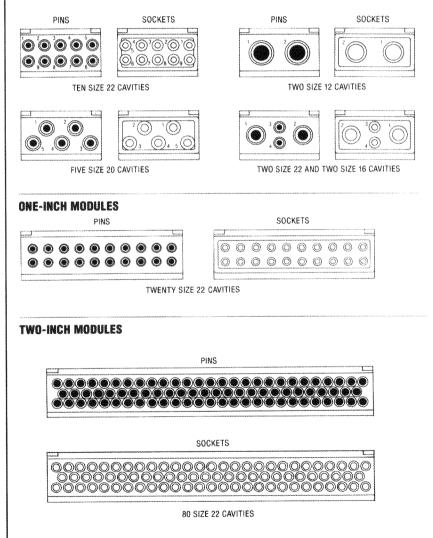
# ABC modules are available in a variety of arrangements, using sizes 22, 20, 16 and 12 crimp-type contacts. You can use any combination of modules within the same shell, thus customizing the connector for your specific application.

Each module holds the contacts into place with a unique contact retention system. For environmental protection, a silicone rear grommet with a triad wire seal and a cork-in-a-bottle interfacial seal are featured.

#### Extended life contacts

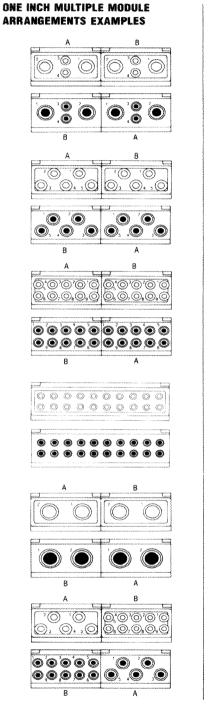
The ABC system uses solderless, rear-release, crimptype MIL-C-39029 contacts. They save time and reduce costs during assembly by eliminating the need for heat guns, wet processes and other special tools. And they keep field repair procedures quick and simple. They also last longer than other contacts. Thanks to a highlubricity coating process called Deutschcoat V, each ABC connector has a 1,500 cycle durability rating - three times that of standard MIL-spec contacts.

#### HALF-INCH MODULES

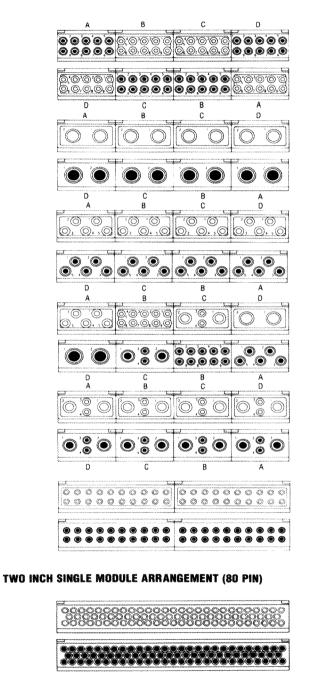




With The ABC System, there are over 4,000 combinations of modules and shells. Pictured are a few of the many possibilities. With so many choices you can design a system that's exactly right for your needs.

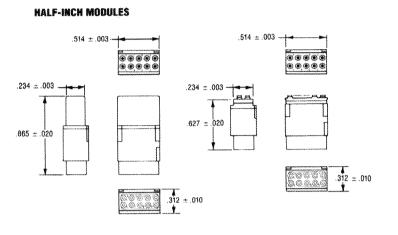








# Single Module Configurations



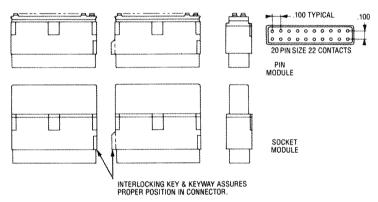
#### **MODULE TYPE**

DESIGNATOR	CONTACT SIZE
00	no cavities (Spacer)
22	22
20	20
16	16, 22
12	12

#### ORDERING INFORMATION DEUTSCH 1/2" MODULE — PART NUMBER

	****	æ	**	*	-	:
Basic Identifier Module position in sh (A or B or C or D)	ell		T	T		
Module Type See Table (Above)	~~~					
Contact Type P = Pins S = Sockets B = Spacer						
Modification						

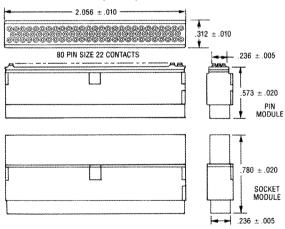
#### **ONE-INCH MODULES (20 PIN)**



#### ORDERING INFORMATION DEUTSCH 1" MODULE — PART NUMBER

	**	*	*
Basic Identifier (AB or CD)		Τ	T
Module Type See Table (Above)	 	 l	
Contact Type P = Pins S = Sockets	 	 *****	

#### **TWO-INCH MODULES (80 PIN)**



				ABC	2	*	*	-	**	1
Bas	ic id	entifier								
		e " Shell								
She	ill Tyr	e								
0	) = ( (	lange I Assem Stack N	bled m	odule	s only	()				
A		Style Push, F anyaro 4 Lock	I Relea					nly	)	
8	0 ==	Arrang 80 Co Bulk S Not av	ntacts	o mod						s)
Cor	itacts									
F	) <sub>50</sub>	Pin								
5		Sockets								

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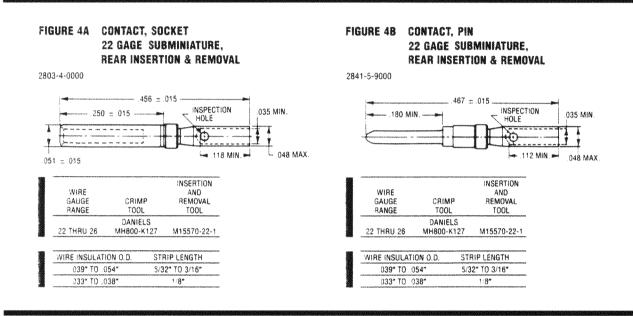
ORDERING INFORMATION



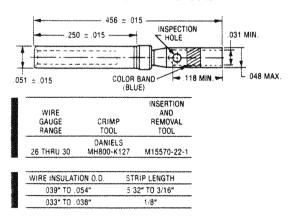
# **Ordering Contacts & Tooling**

#### **ORDERING CONTACTS & TOOLING**

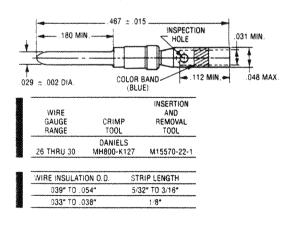
Size	Contact Deutsch Part No.	Style	Wire Gauge	Cromp Tool (Positioner)	Military Insertion/ Extraction Tools	Sealing Plugs Deutsch Part No	Strip Length ± 003	Color Code
220	12331-22	Pin	22 thru 28	M22520/2-01_	1101000 11 1 01		160- 190	Green
220	12336-22	Socket	22 thru 28	(M22520/2-09)	M81969/14-01	81539-23	160190	Green
20	12331-20	Pin	20 thru 24	M22520/1-01	M81969/14-02		230-260	Red
20	12336-20	Socket	20 thru 24	(M22520/1-04)		4113-4-2001	230-260	Red
16	12331-16	Pin	20 thru 16	M22520/1-01	1401000 / 4 4 00	0040 4 4004	230-260	Blue
16	12336-16	Socket	20 thru 16	M22520/1-04)	M81969/14-03	0613-1-1601	230-260	Blue
12	12331-12	Pin	20 thru 15	M2252071-01	M81969/14-04		230-260	Yellow
12	12336-12	Socket	20 thru 16	M22520/1-041		0613-1-1201	230-260	Yellow



#### FIGURE 7A CONTACT, SOCKET 26 THRU 30 GAGE WIRE SIZE 22 SUBMINIATURE REAR INSERTION & REMOVAL

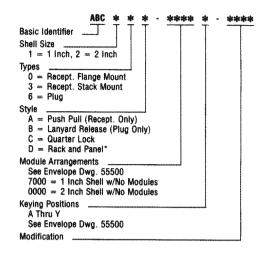


#### FIGURE 7B CONTACT, PIN 26 THRU 30 GAGE WIRE SIZE 22 SUBMINIATURE REAR INSERTION & REMOVAL

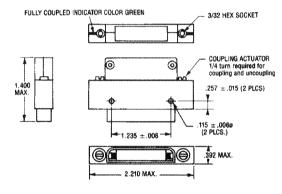




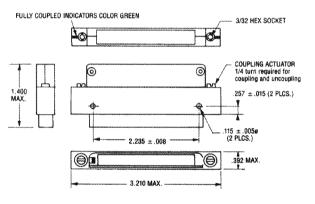
# Ordering Information



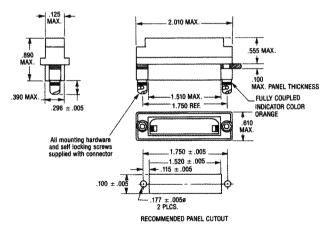
## ABC 1" PLUG QUARTER LOCK



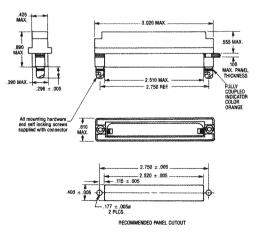
## ABC 2" PLUG QUARTER LOCK



## ABC 1" FLANGE MOUNT RECEPTACLE QUARTER LOCK

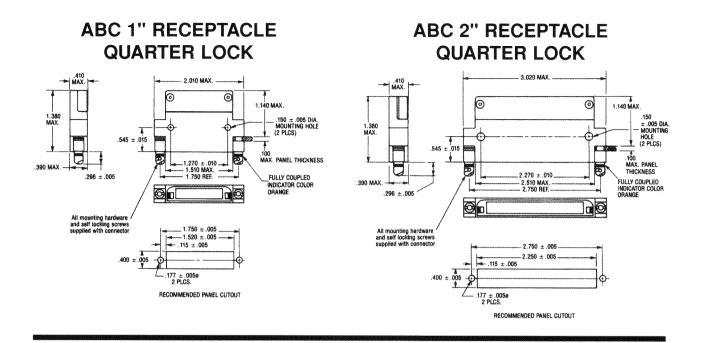


## ABC 2" FLANGE MOUNT RECEPTACLE QUARTER LOCK

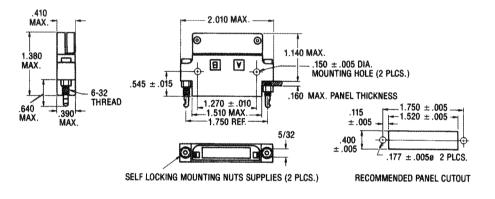




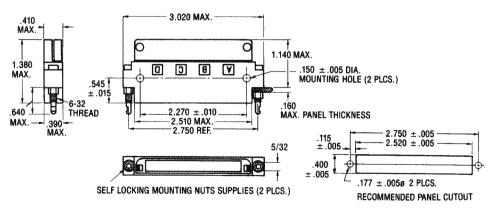
This information is for reference only. Consult factory for envelope drawings, updated specifications, and additions to the product line.



## **ABC 1" RECEPTACLE STACK MOUNTING**



### **ABC 2" RECEPTACLE STACK MOUNTING**





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