

## NGCON Fiber Optic Connector Series



**The Next Generation Connector (NGCON) is designed and manufactured using proven technology and features from existing D38999 and M28876 connector standards. This innovative connector series includes genderless fiber optic termini and high density packaging.**

### Features & Benefits :

- Compliant with NGCON MIL-STD-64266 military standard
- Removable ASR to allow easy maintenance
- Ratcheting coupling nut to resist vibration
- Traverse sealing via O-ring on termini to eliminate troublesome rear grommet
- Replaceable retaining clip on contact ensures long service life
- Rear release contact requires no pulling on fiber
- D38999 accessory threads on rear and M28876 coupling threads
- Precision machined inserts with sub-alignment pins
- Full complement of tactical backshell
- Follows M28876 panel cutouts
- High Density arrangements

### Applications :

- Avionics
- Naval shipboard/dockside communications
- Other military fiber optic interconnect applications



### Product Shell Sizes & Channels :

	Multimode	Single-mode
Ferrule (OD)	1.25mm	1.25mm
Fiber Type	50/125	9/125
Insertion Loss (dB typical)	0.25	0.25
Maximum Loss (dB maximum)	0.75	0.75
Return Loss (dB typical)	35	50
Return Loss (dB minimum)	30	60
Channel Servicing	Single	
Channel Repair	Single	
Cyclic Durability	500	

### Product Shell Sizes & Channels :

Shell Size	Channels	Accessory Thread
11	2, 4	M15 X 1
13	6	M18 X 1
15	8, 10	M22 X 1
23	18, 36	M34 X 1

## Amphenol Fiber Systems International (AFSI) :



Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports the broadest portfolio of reliable and innovative fiber optic interconnect solutions to withstand the harsh environments of military, aerospace, heavy industrial, broadcast and medical applications. Since inception in 1993, AFSI continues to advance its position as a global leader in harsh environment fiber optic interconnect.

AFSI has delivered millions of fiber optic solutions in more than 30 countries. Whenever there is a need for superior, cost-effective fiber optic systems to withstand the harshest of operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

Visit [www.fibersystems.com](http://www.fibersystems.com) for more information.

## How to Order :

For more information on how to order or to obtain a price quote on NGCON Connector series, call toll free (U.S. only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail [info@fibersystems.com](mailto:info@fibersystems.com).

## Build a NGCON Connector (Ex: NG01-DA11) :

1.	2.	3.	4.	5.
Basic PIN	Shell Size	Class (Material Designator)	Shell Keying Position	Insert Arrangement
NG01	D	A	1	1

1. Basic PIN	
NG01	Flange Mount Receptacle
NG02	Plug
NG03	Jamnut Receptacle

2. Shell Size	
B	Shell 11
C	Shell 13
D	Shell 15
H	Shell 23

3. Class (Material Designator)	
A	Aluminum with CAD Electrolytic Compatible Plating
B	Stainless Steel, Passivated
D	Aluminum with Non-Conductive Finish
F	Aluminum with CAD Olive Drab Plating

4. Shell Keying Position	
	NG02 Shell 11 (B) Angle
1	55°
2	80°
3	105°
4	130°
5	230°
6	255°
7	280°
8	305°

5. Insert Arrangement	
Shell Size 11 (B) :	
1	2 Channel
2	4 Channel
Shell Size 13 (C) :	
1	6 Channel
Shell Size 15 (D) :	
1	8 Channel
2	10 Channel
Shell Size 23 (H) :	
1	36 Channel
2	18 Channel