



## ARINC 600 Rack & Panel Filter Connectors TBKAD

### The Challenge

Today's commercial aerospace avionics manufacturers require higher density Rack and Panel connectors, and are placing more and more emphasis on the need to protect critical electronic systems from EMI, voltage transients and voltage surges at the connector interface.

### The Solution

An ARINC 600 Filter provides the highest density pin outs, and the highly robust TBKAD Filter connector version provides the system-level EMI protection in the most effective way, as the box interface.



### The CANNON Difference

- Highly engineered, off-the-shelf and customized solutions
- Designed for performance & reliability in the harshest environments
- A committed partner with more than a century of interconnect solutions excellence

### Key Product Features

- Up to 800 size 22 contacts in one connector
- Low insertion force contacts
- Crimp, co-ax, power, printed circuit, and wire wrap post style contacts
- Meets the vibration and sealing requirements of ARINC 600
- Available in a wide range of planar array and Chip-on-Flex capacitor values tailored for each circuit
- Design options include MOV and Diodes versions for TVS and surge protection

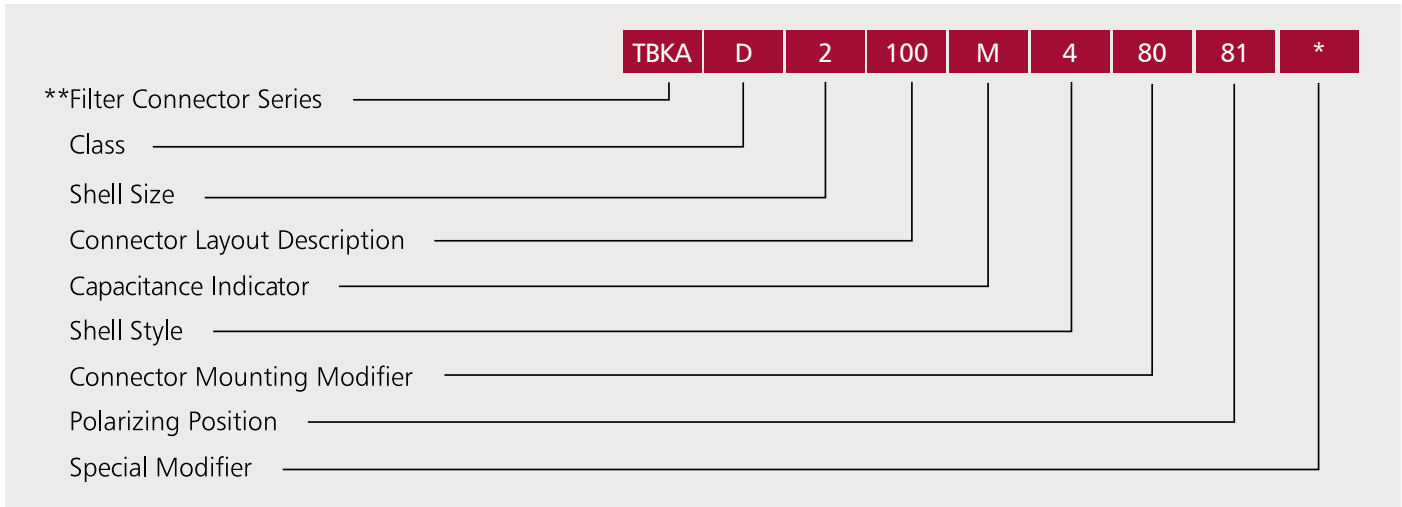
### Markets & Applications



**COMMERCIAL AEROSPACE**  
NAVIGATION SYSTEMS, RADAR SYSTEMS,  
AVIONICS, FLIGHT CONTROL SYSTEMS,  
FLIGHT MANAGEMENT, TCAS



**MILITARY & DEFENSE**  
MISSION COMPUTERS, NAVIGATION  
AND FLIGHT CONTROLS



### Filter Connector Series

TBKA (Per ARINC 600)

\* \* Consult factory for availability.

### Class

D - Non-environmental (rear release, crimp contacts)

### Connector Layout Description

Three digit number contained within the shell layout indicates total number of contacts available

Connector Layout	Shell Size	Shell Cavity Identification					
		A	B	C	D	E	F
-060	1	-	60	-			
-A060	1	60	-	-			
-120	1	60	60	-			
-100	2	-	-	100			
-300	2	150	150	-			
-400	2	150	150	100			
-600	3	150	150	-	150	150	-
-800	3	150	150	100	150	150	150

### Shell Size

- 1 - Max. contact capacity - 125
- 2 - Max. contact capacity - 400
- 3 - Max. contact capacity - 800

### Why ITT

ITT is a focused, multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT Cannon is a leading global manufacturer of connector products serving international customers in the aerospace and defense, industrial and medical end markets. We design and engineer a variety of interconnect solutions that make it possible to transfer data, signal and power in an increasingly connected world.

Connect with your ITT Cannon representative today or visit [www.ittcannon.com](http://www.ittcannon.com)

**CHINA—Shenzhen City**  
+86.755.2726.7888

**GERMANY—Weinstadt**  
+49.7151.699.0

**INDIA—Bangalore**  
+91 22 67843000

**JAPAN—Kanagawa**  
+81.462.57.2010

**SINGAPORE**  
+65 66974205

**USA—Irvine, CA**  
+1.800.854.3028

**FRANCE**  
+33.1.60.04.93.93

**HONG KONG**  
+852.2732.2720

**ITALY—Lainate**  
+39.02938721

**MEXICO—Nogales**  
+52.631.311005

**UK—Basingstoke**  
+44.1256.347400

### Capacitance Indicator

- L - 32,000-45,000 PF
- M - 8,000-12,000 PF
- T - 3,300-5,000 PF
- H - 850-1,300 PF

### Shell Style

- 3-Plug (rack side) consult factory
- 4-Receptacle (box side)

### Connector Mounting Modifier

- 00-Standard design .148 dia. holes
- 01-With #6-32 ESMA (#12 NCFMA2-62) clinch nuts

Connector Size	# of Clinch Nuts
	Receptacle
1	4
2	6
3	10

- 02 - Size 1 receptacle only - less 3 printed circuit board mounting lugs
- 03 - With #4-40 ESMA (#22 NCFMA2-40) clinch nuts

Connector Size	# of Clinch Nuts
	Receptacle
1	4
2	6
3	10

- 08 - Size 2 and 3 receptacle only-with #4-40 ESMA (#22 NCFMA2-40) clinch nuts (all mounting holes)
- 09 - Size 2 and 3 receptacle only-with #6-32 ESMA (#12 NCFMA2062) clinch nuts (all mounting holes)
- 23 - With floating eyelets (.048 min. radial float) 4 corner holes per connector

Consult factory if other modifications are required.

### Polarizing Position

- 01 thru 99 (per ARINC 600)
- Blank-Polarizing posts or keys not installed but supplied with connector

### Special Modifier

Consult factory

