

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class 1

Back-  
Shells

Options  
Others

Amphenol offers a multi-channel circular connector with high density MT fiber optics. This connector uses MT ferrules described on page 205.

### The features of the MT cylindrical connector include:

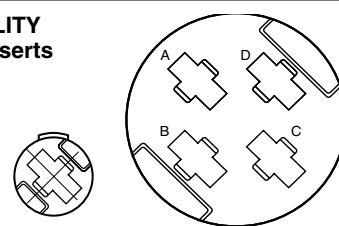
- High fiber density in a relatively small circular connector package with all the advantages of the MIL-DTL-38999 Series III connector
- Three levels of alignment provide for precision fiber to fiber interface:
- Shell-to-shell with keying to allow for alternate positions
- Insert plug to insert receptacle
- MT contact guide pins
- Ferrules are available in either 12-fiber or 24-fiber versions, in multi-mode PC, single mode PC, and single mode APC configurations
- 2 arrangements are available as shown at right, shell size 11 with one ferrule, and shell size 21 with four ferrules

Amphenol® MT38999 connectors for use with MT ferrule termini can be ordered by coded part number. Ordering procedure is illustrated by part number CF-699011-01P as shown below:



MT38999 Connectors

MT INSERT AVAILABILITY  
Front face of socket inserts  
illustrated



Insert Arrangement

11-1

21-4

### Easy Steps to build a part number... CF, Tri-Start Series III with Fiber Optics

1.

2.

3.

4.

5.

6.

7.

| Connector Type | Connector Class | Terminus Style | Shell Finish | Shell Style | Shell Size- Insert Arrangement | Insert Type & Key/ Keyway Position |
|----------------|-----------------|----------------|--------------|-------------|--------------------------------|------------------------------------|
| CF-            | 6               | 9              | 9            | 0           | 11- 01                         | P                                  |

#### Step 1. Select a Connector Type

|     |                                     |
|-----|-------------------------------------|
| CF- | Multi-Channel Fiber Optic Connector |
|-----|-------------------------------------|

#### Step 2. Select a Connector Class

|   | Designates      |
|---|-----------------|
| 5 | Aluminum        |
| 6 | Composite       |
| 8 | Stainless Steel |

#### Step 3. Terminus Style

|   |                                 |
|---|---------------------------------|
| 9 | MT terminus - Flat ribbon cable |
|---|---------------------------------|

#### Step 4. Select a Shell Finish

|   | Designates   |
|---|--|
| 4 | Electroless nickel   |
| 6 | Corrosion resistant stainless steel (connector class 8 only) |
| 9 | Olive drab cadmium   |
| D | Durmalon™ * (Nickel-PTFE)                                    |

\* Durmalon is a trademark of Amphenol Aerospace. For more information on Durmalon go to page 5.  
Other finishes available; please contact Amphenol Aerospace for more information.

#### Step 5. Select a Shell Style

|   | Designates            |
|---|-----------------------|
| 0 | Wall mount receptacle |
| 1 | Line receptacle       |
| 6 | Straight plug         |
| 7 | Jam nut receptacle    |

#### Step 6. Select a Shell Size - Insert Arrangement

| Shell Size - Insert Arrg. | Designates                    |
|---------------------------|-------------------------------|
| 11-01                     | Shell size 11 - Single cavity |
| 21-04                     | Shell size 21 - Four Cavity   |

#### Step 7. Insert Type & Key/Keyway Position

Insert Type and Keyway Position  
P designates pin insert  
S designates socket insert  
For keyway positioning, choose the alternate rotation suffix from the chart below.

#### ALTERNATE POSITION SUFFIX

| Alternate Position | Suffix Letter |         |
|--------------------|---------------|---------|
|                    | Pins          | Sockets |
| Normal             | P             | S       |
| A                  | G             | H       |
| B                  | I             | J       |
| C                  | K             | L       |
| D                  | M             | N       |
| E                  | R             | T       |

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## Amphenol:

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