

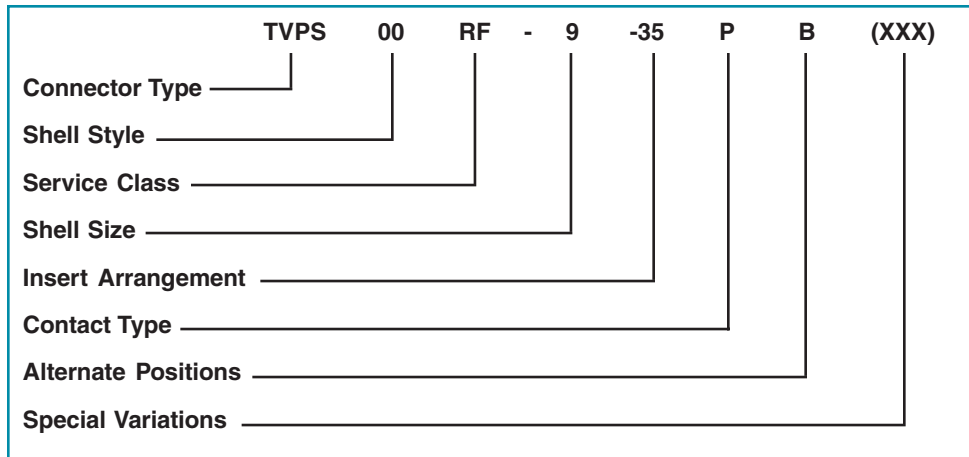
# Tri-Start

how to order – (Amphenol® TV, metal)

how to order – (Amphenol® TV26 CLUTCH-LOK®)

## Proprietary Part Number

Amphenol® Tri-Start Connectors (metal) can be ordered by coded part number. Ordering procedure is illustrated by part number TVPS00RF-9-35PB( ) as shown below:



### Connector Type

- TV designates Tri-Start Series Connector
- TVP designates back panel mounted receptacle
- TVS designates 200°C rated
- TVPS designates back panel mounted, 200°C rated receptacle
- MTV designates CLUTCH-LOK connector with "MS" stamping  
(Note: remove dashes in how to order part number when ordering CLUTCH-LOK)

### Shell Style

- 00 designates wall mount receptacle
- 01 designates line receptacle
- 02 designates box mount receptacle
- 06 designates straight plug
- 26 designates proprietary CLUTCH-LOK high vibration straight plug (available in service classes RK and RS only)
- 07 designates jam nut receptacle
- 09 designates flange mounted plug
- I designates solder mounted receptacle, hermetic only
- IY designates weld mounted receptacle, hermetic only

### Service Class

- RX alternate finish, requires special variation suffix. Example: non-conductive, anodic coated aluminum is defined by variation suffix 005. Consult Amphenol, Sidney NY for details, options and availability of non-cadmium or nickel finishes.
- RF electroless nickel plated aluminum, optimum EMI shielding effectiveness –65dB @ 10GHz specification min., 48 hour salt spray, 200°C
- RGF\*\* electroless nickel plated ground plane aluminum, 200°C
- RGW\*\* olive drab cadmium plated ground plane aluminum, 175°C
- RK\* corrosion resistant stainless steel, firewall capability, plus 500 hour salt spray resistance, EMI –45 dB @ GHz specification min., 200°C
- RW corrosion resistant olive drab cadmium plate aluminum, 500 hour extended salt spray, EMI –50 dB @ 10 GHz specification min., 175°C

- RQF same as RF except with Quadrax contacts
- RGQF same as RGF except with Quadrax contacts
- RGQW same as RGW except with Quadrax contacts
- RQK same as RK except with Quadrax contacts and not firewall capable
- RQW same as RW except with Quadrax contacts
- Y hermetic seal, passivated stainless steel, 200°C
- RS\* (non-hermetic connectors), nickel plated stainless steel, optimum EMI shielding effectiveness –65dB @ 10 GHz specification min., 500 hour salt spray, 200°C, firewall barrier
- YN (hermetic connectors), nickel plated stainless steel, 200°C

### Shell Size

MIL-DTL-38999, Sizes 9-25.

A	B	C	D	E	F	G	H	J	MIL Shell Size
9	11	13	15	17	19	21	23	25	Amphenol Shell Size

### Insert Arrangement

MIL-DTL-38999, see insert arrangement charts, pgs. 6 & 7.

### Contact Type

- P designates pin contacts
- S designates socket contacts

### Alternate Positions

Locksmith keying - rotation of minor keys. See page 8. "N" not required for normal position.

### Special Variations

Consult Amphenol Aerospace, Sidney, NY for variations.

\* Coaxial arrangements are not available in these classes.  
\*\* For more information on Coax/Triax/Twinax Ground Plane Connectors see page 49.



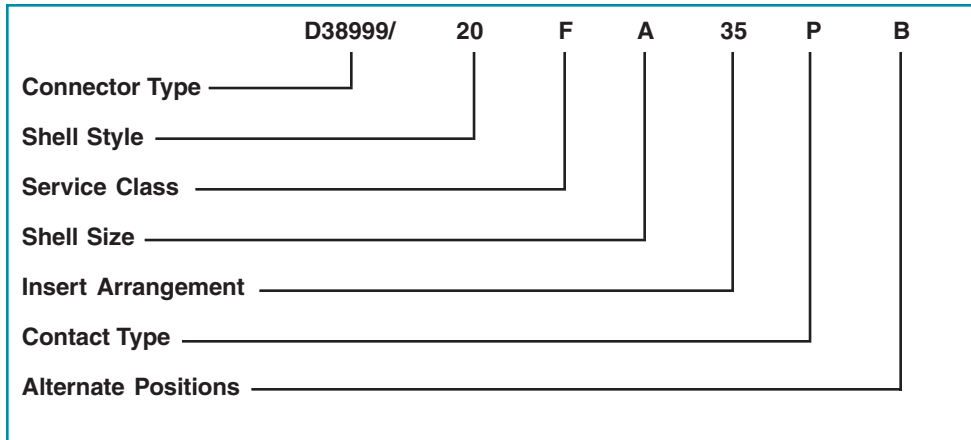
# Tri-Start

how to order – (D38999, TV military, metal)

how to order – (MTV26 CLUTCH-LOK®)

## Military Part Number

To more easily illustrate ordering procedure of Tri-Start Connectors (metal) by military designation, part number D38999/20F A 35 P B is shown as follows:



### Connector Type

D38999/ designates MIL-DTL-38999 Series III Connector  
 MTV designates military D38999/26 CLUTCH-LOK high vibration straight plug (available in service class RK only)

### Shell Style

- 20 designates wall mount receptacle
- 21 designates box mount receptacle, hermetic
- 23 designates jam nut receptacle, hermetic
- 24 designates jam nut receptacle
- 25 designates solder mount receptacle, hermetic
- 26 designates straight plug
- 27 designates weld mount receptacle, hermetic

Lanyard Release Connectors (See pages 28-32 for ordering)

- 29 designates lanyard release plug with pin contacts
- 30 designates lanyard release plug with socket contacts
- 31 designates lanyard release plug for MIL-STD-1760 with pin contacts

Protection Caps (See page 40 for ordering MS protection caps)

- 32 designates plug protection cap
- 33 designates receptacle protection cap

### Service Class

- C non-conductive, anodic coated aluminum, 500 hour salt spray, 200°C
- F electroless nickel plated aluminum, optimum EMI shielding effectiveness –65dB @ 10GHz specification min., 48 hour salt spray, 200°C
- G space grade, electroless nickel, 48 hour salt spray, 200°C
- K corrosion resistant stainless steel, firewall capability, plus 500 hour salt spray resistance, EMI –45 dB @ GHz specification min., 200°C
- L corrosion resistant steel, electrodeposited nickel, 48 hour salt spray, 200°C

- W corrosion resistant olive drab cadmium plate aluminum, 500 hour extended salt spray, EMI –50 dB @ 10 GHz specification min., 175°C
- Y hermetic seal, passivated stainless steel, 200°C
- S (non-hermetic connectors), nickel plated stainless steel, optimum EMI shielding effectiveness –65dB @ 10 GHz specification min., 500 hour salt spray, 200°C
- N (hermetic connectors), nickel plated stainless steel, 200°C

### Shell Size

MIL-DTL-38999, Sizes 9-25.

A	B	C	D	E	F	G	H	J	MIL Shell Size
9	11	13	15	17	19	21	23	25	Amphenol Shell Size

### Insert Arrangement

MIL-DTL-38999, see insert arrangement charts, pgs. 6 & 7.

### Contact Type

- P designates pin contacts
- S designates socket contacts
- A designates same as “P” except supplied less pin contacts
- B designates same as “S” except supplied less socket contacts (A & B designates non-standard contact applications)
- X designates eyelet contacts, hermetics only

### Alternate Positions

Locksmith keying - rotation of minor keys. See page 8.  
 “N” not required for normal position.

### Special Variations

Consult Amphenol Aerospace, Sidney, NY for variations.

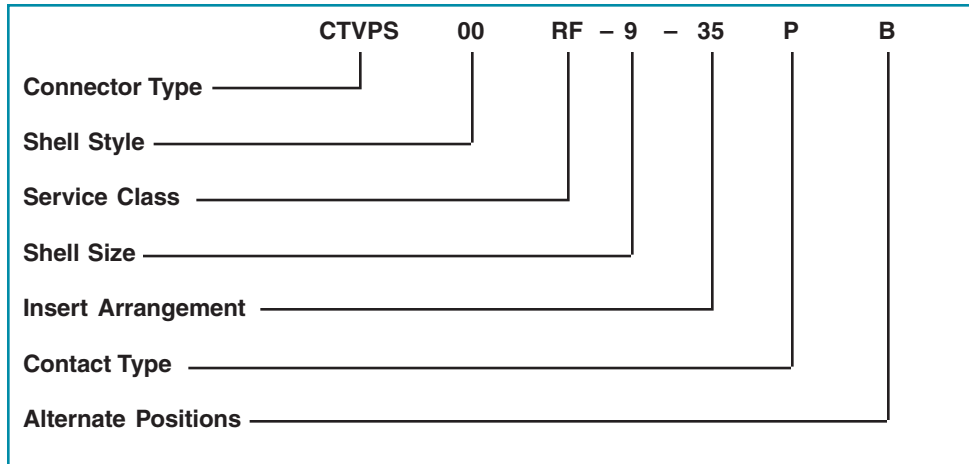


# Tri-Start

## how to order – (Amphenol® CTV, composite)

### Proprietary Part Number

Amphenol® Tri-Start Composite Connectors can be ordered by coded part number. Ordering procedure is illustrated by part number CTVPS00RF-9-35P B as shown below:



#### Connector Type

CTV designates Tri-Start Series Connector  
CTVP designates back panel mounted receptacle  
CTVS designates 200°C rated  
CTVPS designates back panel mounted, 200°C rated receptacle

#### Shell Style

00 designates wall mount receptacle  
01 designates line receptacle  
02 designates box mount receptacle\*  
06 designates straight plug  
07 designates jam nut receptacle

#### Service Class

RF electroless nickel plated composite, 200°C  
RW olive drab cadmium plated composite, 175°C  
RGF\*\* electroless nickel plated ground plane composite, 200°C  
RGW\*\* olive drab cadmium plated ground plane composite, 175°C  
RQF same as RF composite except with Quadrax contacts  
RQW same as RW composite except with Quadrax contacts  
RGQF same as RGF composite except with Quadrax contacts  
RGQW same as RGW composite except with Quadrax contacts

#### Shell Size

9 thru 25 available

#### Insert Arrangement

MIL-DTL-38999, see insert arrangement charts, pgs. 6 & 7.

#### Contact Type

H designates 1500 cycle pin contacts  
J designates 1500 cycle socket contacts  
P designates 500 cycle pin contacts  
S designates 500 cycle socket contacts

#### Alternate Positions

Locksmith keying - rotation of minor keys. "N" not required for normal position, see page 8.

\* Consult Amphenol Aerospace, Sidney, NY for availability.

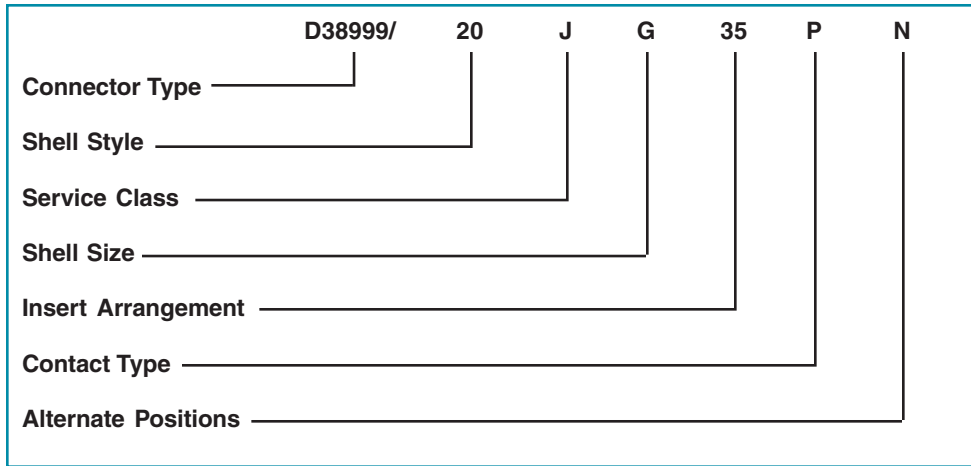
\*\* For more information on Coax/Triax/Twinax Ground Plane Connectors see page 49.

# Tri-Start

## how to order – (D38999, CTV military, composite)

### Military Part Number

To more easily illustrate ordering procedure of Tri-Start Composite Connectors by military designation, part number D38999/20JG35PN is shown as follows:



#### Connector Type

D38999/ designates MIL-DTL-38999 Series III Connector

#### Shell Style

20 designates wall mount receptacle  
 24 designates jam nut receptacle  
 26 designates straight plug  
 (Consult Amphenol Aerospace for availability of composite box mount receptacles)

#### Service Class

J olive drab cadmium plate (175°C),  
 2000 hrs. dynamic salt spray  
 M electroless nickel plate (200°C),  
 2000 hrs. dynamic salt spray

#### Shell Size

MIL-DTL-38999, Sizes 9-25

A	B	C	D	E	F	G	H	J	MIL Shell Size
9	11	13	15	17	19	21	23	25	Amphenol Shell Size

#### Insert Arrangement

MIL-DTL-38999, see insert arrangement charts, pg. 6 & 7.

#### Contact Type

H designates 1500 cycle pin contacts  
 J designates 1500 cycle socket contacts  
 P designates 500 cycle pin contacts  
 S designates 500 cycle socket contacts  
 A designates same as "P" except supplied less pin contacts  
 B designates same as "S" except supplied less socket contacts  
 (A & B designate non-standard contact applications)

#### Alternate Positions

Locksmith keying - rotation of minor keys. See page 8.  
 (Use N for normal)