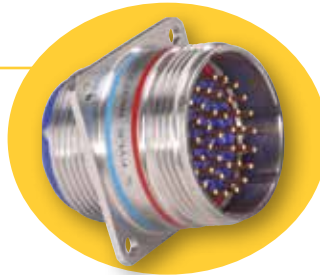


# MIL-DTL-83723, Series III, Pyle®

## Sq. Flange Receptacle, Threaded - Quick Reference

### MIL-DTL-83723, SERIES III SQUARE FLANGE RECEPTACLE, THREADED COUPLING

- Military: **M83723/82** with Sockets, Classes G, K
- Military: **M83723/83** with Pins, Classes G, K
- Commercial: **BT( )-17**  
With 'O' ring seal, Classes G, K
- Comm. Special for General Electric: **BJ-17**  
With Static Dynamic Seal, Stainless Steel, but not avail. in Firewall
- BJ8-17**  
Same as BJ-17 except with Scoop-proof recessed pins
- BN-17**  
Same as BJ-17 except Electro-deposited Nickel Base
- BN8-17**  
Same as BN-17 except with Scoop-proof recessed pins
- BNK-17**  
Same as BN except Stainless Steel Firewall
- Special with Boeing Designation: **BACC63CN\*\***  
With 'O' ring seal, Stainless Steel Firewall, with Boeing approved contacts, Shell modifications with 360° teeth per MS3155
- Comm. Special per Boeing Co. Spec.: **BSK-17**  
Stainless Steel Firewall with 'O' ring seal, qualified to Boeing, Y126 Variation - with Boeing approved contacts
- Commercial ASD Designation: **EN2997 ( )0**  
Meets ASD specifications 200°C temp. (Classes K, S, Y), 260°C high temp. (Classes KE, SE, YE)
- Comm.- Meet Several European Stds: **BT( )-17**  
With 'O' ring seal, Classes G, K  
Variations for Euro market specifications
- BJ( )-17**  
With Static Dynamic Seal, Classes G, K  
Variations for Euro market specifications



Square Flange Receptacle Threaded

### SERVICE CLASSES\* MILITARY AND COMMERCIAL

|           |  |
|-----------|--|
| <b>G</b>  | Stainless steel, 200°C   |
| <b>K</b>  | Stainless steel, 200°C Firewall capability   |
| <b>S</b>  | Stainless steel, 200°C Firewall capability, Grounding Spring                               |
| <b>P</b>  | Stainless steel, 200°C, Hermetic with Eyelet contacts                                      |
| <b>Y</b>  | Stainless Steel, 200°C, Hermetic with Solderwell contacts                                  |
| <b>KE</b> | Stainless Steel, High Temp. (260°C) Firewall capability                                    |
| <b>SE</b> | Stainless steel, High Temp. (260°C) Firewall capability, Grounding Spring                  |
| <b>YE</b> | Stainless Steel, High Temp. (260°C) Firewall capability, Hermetic with solderwell contacts |

\* For Classes A, R and W (aluminum shell types) - Amphenol supplies these in their Matrix 83723 family. See the preceding section of this catalog, 83723 III Matrix.



Square Flange Receptacle, Threaded, per European Stds. (Green Insert - High Temp 260°C; Blue insert - 200°C)

Commercial - Meet Society of British Aerospace Co./Rolls Royce Standards:

**ESC10 ( )0**  
260°C Firewall (Classes KE, SE, YE), 360° accessory teeth per MS3155

**ESC11 ( )0**  
260°C Firewall (Classes KE, SE, YE), Scoop-proof recessed pins, 360° accessory teeth per MS3155

ESC10 & ESC11 also available in Hermetic square flange receptacles - See Hermetic quick ref. page 369.

ESC11 with Scoop-Proof (Recessed pins):

**HTK-17**  
Standard ESC11, Class K Firewall, Scoop-proof, Variations for Euro market specifications

**HNK-17**  
Nickel finish, Class K Firewall Mating recept. has 'O' ring seal, Scoop-proof, Variations for Euro market specs

**HSK-17**  
Same as HTK, except this is a special designator for Boeing Co.

\*\* BACC63CN supersedes BACC63BT.

See how to order pages 374-381 for complete part numbers.

Bayonet style square flange receptacles are shown on page 385.

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

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 I

Back-Shells

Options Others

**MIL-DTL-83723, SERIES III JAM NUT (D-HOLE MOUNT) RECEPTACLE, THREADED COUPLING**

Military: **M83723/84** with Sockets, Classes G, K  
 Military: **M83723/85** with Pins, Classes G, K  
 Commercial: **BT( )-19** With 'O' ring seal, Classes G, K  
 Comm. Special for General Electric: **BJ-19** With Static Dynamic Seal, Stainless Steel, but not avail. in Firewall  
**BJ8-19** Same as BJ-17 except with Scoop-proof recessed pins  
**BN-19** Same as BJ-17 except Electro-deposited Nickel Base  
**BN8-19** Same as BN-17 except with Scoop-proof recessed pins  
**BNK-19** Same as BN except Stainless Steel Firewall

Commercial ASD Designation: **EN2997 ( )7** Meets ASD specifications 200°C temp. (Classes K, S, Y), 260°C high temp. (Classes KE, SE, YE)  
**NFL 54143 ( )7**

Comm.- Meet Several European Stds: **BT( )-19** With 'O' ring seal, Classes G, K Variations for Euro market specifications  
**BJ( )-19** With Static Dynamic Seal, Classes G, K Variations for Euro market specifications

Commercial - Meet Society of British Aerospace Co./Rolls Royce Standards: ESC10 & ESC11 jam nut receptacles are available in Hermetic only - See Hermetic quick ref. pages 369 & 370.



**Jam Nut (D-Hole Mount) Receptacle, Threaded**

**SERVICE CLASSES\* MILITARY AND COMMERCIAL**

|           |  |
|-----------|--|
| <b>G</b>  | Stainless steel, 200°C   |
| <b>K</b>  | Stainless steel, 200°C Firewall capability   |
| <b>S</b>  | Stainless steel, 200°C Firewall capability, Grounding Spring                               |
| <b>P</b>  | Stainless steel, 200°C, Hermetic with Eyelet contacts                                      |
| <b>Y</b>  | Stainless Steel, 200°C, Hermetic with Solderwell contacts                                  |
| <b>KE</b> | Stainless Steel, High Temp. (260°C) Firewall capability                                    |
| <b>SE</b> | Stainless steel, High Temp. (260°C) Firewall capability, Grounding Spring                  |
| <b>YE</b> | Stainless Steel, High Temp. (260°C) Firewall capability, Hermetic with solderwell contacts |

\* For Classes A, R and W (aluminum shell types) - Amphenol supplies these in their Matrix 83723 family. See the preceding section of this catalog, 83723 III Matrix.

No Boeing Designated Jam nut receptacle. See how to order pages 374-381 for complete part numbers.

Bayonet style jam nut receptacles are shown on page 386.

# MIL-DTL-83723, Series III, Pyle®

## Plugs, Threaded - Quick Reference

### MIL-DTL-83723, SERIES III STANDARD STRAIGHT PLUG, THREADED COUPLING

Military: **M83723/86** with Sockets, Classes G, K  
 Military: **M83723/87** with Pins, Classes G, K  
 Commercial: **BT( )11**  
 Mating recept. has 'O' ring seal, Classes G, K

Comm. Special for General Electric:

**BJ-11**  
 With Static Dynamic Seal, Stainless Steel, but not avail. in Firewall  
**BJ8-11**  
 Same as BJ-17 except with Scoop-proof recessed pins  
**BN-11**  
 Same as BJ-17 except Electro-deposited Nickel Base  
**BN8-11**  
 Same as BN-17 except with Scoop-proof recessed pins  
**BNK-11**  
 Same as BN except Stainless Steel Firewall



Standard Straight Plug, Threaded

No Boeing straight plug designations. No ASD or other European/ESC10 or ESC11 straight plug designations. See page 387 for Bayonet style straight plug style.

### MIL-DTL-83723, SERIES III NON-DECOUPLING PLUG (UNIQUE SELF-LOCKING CLUTCH PLATE), THREADED COUPLING

Military: **M83723/95** with Sockets, Classes G, K  
**M83723/96** with Pins, Classes G, K  
**M83723/97** with EMI Grounding spring, with Pins  
**M83723/97** with EMI Grounding spring, with Sockets

Commercial:

**BT( )12**  
 Mating recept. has 'O' ring seal, Classes G, K

Comm. Special for General Electric:

**BJ-12**  
 With Static Dynamic Seal, Stainless Steel, but not avail. in Firewall  
**BJ8-12**  
 Same as BJ-17 except with Scoop-proof recessed pins  
**BN-12**  
 Same as BJ-17 except Electro-deposited Nickel Base  
**BN8-12**  
 Same as BN-17 except with Scoop-proof recessed pins  
**BNK-12**  
 Same as BN except Stainless Steel Firewall

Special with Boeing Designation:

**BACC63CM\*\***  
 Mating recept. has 'O' ring seal, Stainless Steel Firewall, with Boeing approved contacts, Shell modifications with 360° teeth per MS3155

Comm. Special per Boeing Co. Spec.:

**BSK-12**  
 Stainless Steel Firewall qual. to Boeing, Y126 Variation - with Boeing approved contacts

\*\* BACC63CM supersedes BACC63BR.

See how to order pages 374-381 for complete part numbers.

No Bayonet style Non-Decoupling plug available.

### SERVICE CLASSES\* MILITARY AND COMMERCIAL

|           |   |
|-----------|---|
| <b>G</b>  | Stainless steel, 200°C  |
| <b>K</b>  | Stainless steel, 200°C Firewall capability                                |
| <b>S</b>  | Stainless steel, 200°C Firewall capability, Grounding Spring              |
| <b>KE</b> | Stainless Steel, High Temp. (260°C) Firewall capability                   |
| <b>SE</b> | Stainless steel, High Temp. (260°C) Firewall capability, Grounding Spring |

\* For Classes A, R and W (aluminum shell types) - Amphenol supplies these in their Matrix 83723 family. See the preceding section of this catalog, 83723 III Matrix.



Non-Decoupling Plug, Threaded

Left - Green Insert - High Temp 260°C and 360° Accessory Teeth;  
 Right - Blue insert - 200°C and 3 Accessory Teeth

Commercial

ASD Designation: **EN2997 ( )6**  
 Meets ASD specifications  
 200°C temp. (Classes K, S),  
 260°C high temp. (Classes KE, SE)

Comm.- Meet Several

European Stds: **BT( )-12**  
 Mating recept. has 'O' ring seal, Classes G, K  
 Variations for Euro market specifications

**BJ( )-12**

With Static Dynamic Seal, Classes G, K  
 Variations for Euro market specifications

Commercial - Meet

Society of British Aerospace Co./Rolls

Royce Standards: **ESC10 ( )6**  
 260°C Firewall (Classes KE, SE),  
 360° accessory teeth per MS3155

**ESC11 ( )6**

260°C Firewall (Classes KE, SE),  
 Scoop-proof, 360° accessory teeth per MS3155

ESC11 with Scoop-Proof

(Recessed pins):

**HTK-12**

Standard ESC 11, Class K Firewall,  
 Scoop-proof, Variations for Euro market specs

**HNK-12**

Nickel finish, Class K Firewall  
 Mating recept. has Static Dynamic seal,  
 Scoop-proof, Variations for Euro market specs

**HSK-12**

Same as HTK, except this is a special designator for Boeing Co.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts Connectors Cables

EMI Filter Transient

Matrix 2 26482

Matrix | Pyle 83723 III

Pyle 26500

Crimp Rear Release Matrix 5015

Class 1 22992

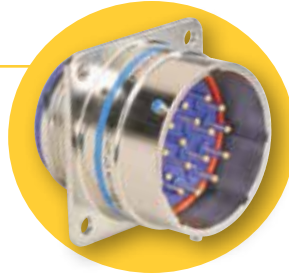
Back-Shell 5015

Options Others

38999  
III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

**MIL-DTL-83723, SERIES III SQUARE FLANGE RECEPTACLE, BAYONET COUPLING**

Military: **M83723/71** with Sockets, Classes G, K  
 Military: **M83723/72** with Pins, Classes G, K  
 Commercial: **BY( )17** With 'O' ring seal, Classes G, K



Square Flange Receptacle with Bayonet Coupling

**SERVICE CLASSES\* MILITARY AND COMMERCIAL**

|          |  |
|----------|--|
| <b>G</b> | Stainless steel, 200°C                     |
| <b>K</b> | Stainless steel, 200°C Firewall capability |

\* For Classes A, R and W (aluminum shell types) - Amphenol supplies these in their Matrix 83723 family. See the preceding section of this catalog, 83723 III Matrix.

HIGH SPEED  
Fiber Optics  
Contacts  
Connectors  
Cables

**MIL-DTL-83723, SERIES III JAM NUT (D-HOLE MOUNT) RECEPTACLE, BAYONET COUPLING**

Military: **M83723/73** with Sockets, Classes G, K  
 Military: **M83723/74** with Pins, Classes G, K  
 Commercial: **BY( )19** With 'O' ring seal, Classes G, K



Jam Nut (D-Hole Mount) Receptacle with Bayonet Coupling

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

**MIL-DTL-83723, SERIES III STRAIGHT PLUG, BAYONET COUPLING**

Military: **M83723/75** with Sockets, Classes G, K  
 Military: **M83723/76** with Pins, Classes G, K  
 Commercial: **BY( )10** With 'O' ring seal, Classes G, K



Straight Plug with Bayonet Coupling

26500  
Pyle

5015  
Crimp Rear Release  
Matrix

22992  
Class I

Back-  
Shells

Options  
Others

Bayonet coupling connectors are offered in Military 83723 and Commercial equivalent designations. See how to order page 374. They are not included in Boeing, GE, ASD and other European specified connectors. Shell size 28 is not available in Bayonet coupling connectors.

# MIL-DTL-83723, Series III, Pyle®

## Hermetic Receptacles - Quick Reference

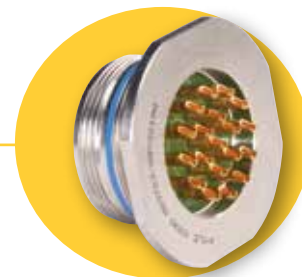
### MIL-DTL-83723, SERIES III HERMETIC SQUARE FLANGE RECEPTACLE, THREADED COUPLING



Hermetic  
Square Flange  
Receptacle,  
Threaded

- Military: **M83723/88Y**  
Stainless Steel, Class Y,  
Solderwell contacts
- Military: **M83723/88P**  
Stainless Steel, Class P,  
Eyelet contacts
- Commercial: **BTY-17**  
Stainless Steel, 'O' ring Seal,  
Solderwell or Eyelet contacts,  
200°C or 260°C
- BFY-17**  
Stainless Steel, Static Dynamic  
Seal, Solderwell or Eyelet contacts,  
200°C or 260°C
- BNY-17**  
Stainless Steel, Static Dynamic  
Seal, Electro-deposited Nickel, Solderwell or Eyelet contacts,  
200°C or 260°C
- Commercial  
ASD Designation: **EN2997Y0 / YE0**  
Meets ASD Specifications, Stainless Steel,  
Class Y (200°C) / Class YE (260°C), Solderwell contacts
- Commercial - Meet  
Society of British  
Aerospace Co./Rolls  
Royce Standards: **ESC10YE2**  
260°C Firewall, Stainless Steel, Class YE, Solderwell contacts
- ESC11YE2**  
260°C Firewall, Stainless Steel, Class YE, Solderwell contacts,  
Scoop-proof Recessed pins
- PCB Tails available upon request

### MIL-DTL-83723, SERIES III HERMETIC JAM NUT RECEPTACLE, THREADED COUPLING



Hermetic  
Jam Nut  
Receptacle,  
Threaded

- Military: **M83723/89Y**  
Stainless Steel, Class Y, Solderwell contacts
- Military: **M83723/89P**  
Stainless Steel, Class Y, Eyelet contacts
- Commercial: **BTY-19**  
Stainless Steel, 'O' ring Seal, Solderwell or Eyelet contacts, 200°C or 260°C
- BFY-19**  
Stainless Steel, Static Dynamic Seal, Solderwell or Eyelet contacts, 200°C or 260°C
- BNY-19**  
Stainless Steel, Static Dynamic Seal, Electro-deposited Nickel, Solderwell or Eyelet  
contacts, 200°C or 260°C
- Commercial  
ASD Designation: **EN2997Y7 / YE7**  
Meets ASD Specifications, Stainless Steel,  
Class Y (200°C) / Class YE (260°C), Solderwell contacts
- Commercial - Meet  
Society of British  
Aerospace Co./Rolls  
Royce Standards: **ESC10YE3**  
260°C Firewall, Stainless Steel, Class YE, Solderwell contacts
- ESC11YE3**  
260°C Firewall, Stainless Steel, Class YE, Solderwell contacts,  
Scoop-proof Recessed pins
- PCB Tails available upon request

Commercial BTY, BFY and BNY meet European specifications and General Electric spec. GEM50TF3564, Classes A & B.

Shell sizes 20, 24 and 28, consult Amphenol Aerospace for availability. Hermetic style receptacles are not included in Boeing designations.

### SERVICE CLASSES HERMETIC MILITARY AND COMMERCIAL

|           |  |
|-----------|--|
| <b>Y</b>  | Stainless Steel, 200°C, Hermetic with solderwell contacts                                  |
| <b>P</b>  | Stainless steel, 200°C, Hermetic with eyelet contacts                                      |
| <b>YE</b> | Stainless Steel, High Temp. (260°C) Firewall capability, Hermetic with solderwell contacts |

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

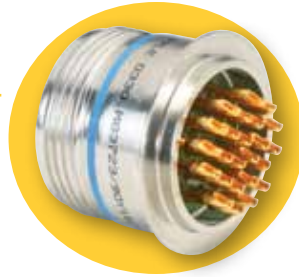
5015  
Crimp Rear  
Release  
Matrix

22992  
Class 1

Back-  
Shells

Options  
Others

**MIL-DTL-83723, SERIES III  
HERMETIC SOLDER MOUNT/WELD MOUNT  
RECEPTACLE, THREADED COUPLING**



Hermetic  
Solder Mount/Weld  
Mount Receptacle,  
Threaded

**SERVICE CLASSES  
HERMETIC  
MILITARY AND COMMERCIAL**

|           |  |
|-----------|--|
| <b>Y</b>  | Stainless Steel, 200°C, Hermetic with solderwell contacts                                  |
| <b>P</b>  | Stainless steel, 200°C, Hermetic with eyelet contacts                                      |
| <b>YE</b> | Stainless Steel, High Temp. (260°C) Firewall capability, Hermetic with solderwell contacts |

- Military: M83723/90Y**  
Stainless Steel, Class Y, Solderwell contacts
- Military: M83723/90P**  
Stainless Steel, Class P, Eyelet contacts
- Commercial: BTY-14**  
Stainless Steel, 'O' ring Seal, Solderwell or Eyelet contacts, 200°C or 260°C
- BFY-14**  
Stainless Steel, Static Dynamic Seal, Solderwell or Eyelet contacts, 200°C or 260°C
- BNY-14**  
Stainless Steel, Static Dynamic Seal, Electro-deposited Nickel, Solderwell or Eyelet contacts, 200°C or 260°C
- Commercial ASD Designation: EN2997Y1 / YE1**  
Meets ASD Specifications, Stainless Steel, Class Y (200°C) / Class YE (260°C), Solderwell contacts
- Commercial - Meet Society of British Aerospace Co./Rolls Royce Standards:**
- ESC10YE1**  
260°C Firewall, Stainless Steel, Class YE, Solderwell contacts
- ESC11YE1**  
260°C Firewall, Stainless Steel, Class YE, Solderwell contacts, Scoop-proof Recessed pins
- PCBTails available upon request

Commercial BTY, BFY and BNY meet European specifications and General Electric spec. GEM50TF3564, Classes A & B.

Shell sizes 20, 24 and 28, consult Amphenol Aerospace for availability. Hermetic style receptacles are not included in Boeing designations.

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