ORDERING INFORMATION FOR THREADED/BAYONET SERIES

Military Designation

M83723/ 82 R 16 24 6

- Connector Series
- Shell/Contact Style
- Class
- Shell Size
- Insert Arrangement
- Alternate Keying

Shell/Contact Style
71—Bayonet, Square Flange Receptacle, Sockets
72—Bayonet, Square Flange Receptacle, Pins
73—Bayonet, Jam Nut Receptacle, Sockets
74—Bayonet, Jam Nut Receptacle, Pins
75—Bayonet, Plug, Sockets
76—Bayonet, Plug, Pins
82—Threaded, Square Flange Receptacle, Sockets
83—Threaded, Square Flange Receptacle, Pins
84—Threaded, Jam Nut Receptacle, Sockets
85—Threaded, Jam Nut Receptacle, Pins
86—Threaded, Straight Plug, Sockets
87—Threaded, Straight Plug, Pins
95—Threaded, Non-Decoupling Plug, Sockets
96—Threaded, Non-Decoupling Plug, Pins

Class
A Aluminum, Black Anodized, Non-Conductive
G Stainless Steel
K Stainless Steel Firewall
R Aluminum, Electroless Nickel Plated
W Aluminum, Olive Drab Cadmium

Shell Size
8, 10, 12, 14, 16, 18, 20, 22, 24

Insert Arrangement
See Chart (page 9).

Alternate Keying
N = Normal, 6, 7, 8, 9 and Y* alternates.
*Formerly 10 (see page 8).

Pyle Designation

BT R - 17 16 - 24 S D 06 - YXXX

- Connector Style
- Class
- Shell Style
- Shell Size
- Insert Arrangement
- Contact Style
- Contact Finish/Nomenclature
- Alternate Keying
- Variations

Connector Style
Standard Design
BT–Threaded–'O' ring seal in receptacle
BY–Bayonet–'O' ring seal in receptacle
Alternate Design
BJ–Threaded, Stainless Steel–
Static/Dynamic Seal in receptacle
BN–Same as BJ except Electrodeposited
Nickel Plate

Class
A Aluminum, Black Anodized, Non-Conductive
R Aluminum, Electroless Nickel Plated
W Aluminum, Olive Drab Cadmium Over Nickel
G Stainless Steel
K Stainless Steel Firewall

Shell Style
10–Bayonet Plug
11–Threaded Straight Plug
12–Threaded Non-Decoupling Plug
17–Square Flange Receptacle
19–Jam Nut Receptacle

Shell Size
8, 10, 12, 14, 16 18, 20 22, 24, 28

Insert Arrangements
See Chart (page 9).

Contact Style (Crimp)
P = Pin S = Socket

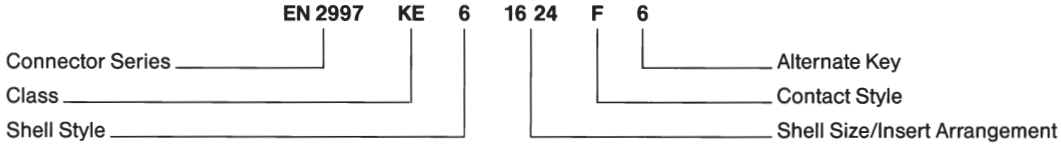
Contact Finish/Nomenclature
D = gold per MIL-C-39029
E = without contacts

Alternate Keying
(Omit for normal) 06, 07, 08, 09 and
10 alternate (see page 8).

Variations
Consult factory for special variations.

ORDERING INFORMATION–EUROPEAN STANDARDS

AECMA Designation



Connector Series
EN 2997 AECMA designation
NFL 54143 European designation

Class

STANDARD TEMPERATURE
- R Aluminum, Electroless Nickel Plated (200°C)
- RS Same as R with Grounding Spring on plug
- W Aluminum, Olive Drab Cadmium Over Nickel (175°C)
- WS Same as W with Grounding Spring on plug
- K Stainless Steel Firewall (200°C)
- S Same as K with Grounding Spring on plug
- Y Stainless Steel Hermetic with Solderwell Contact (200°C)

HIGH TEMPERATURE (260°C)
- KE Stainless Steel Firewall
- SE Same as KE with Grounding Spring
- YE Stainless Steel Hermetic with Solderwell Contact

Shell Style
- 0 Square Flange Receptacle
- 1 Solder Mount Receptacle (Hermetic Only)
- 6 Plug, Non-Decoupling
- 7 Jam Nut Receptacle

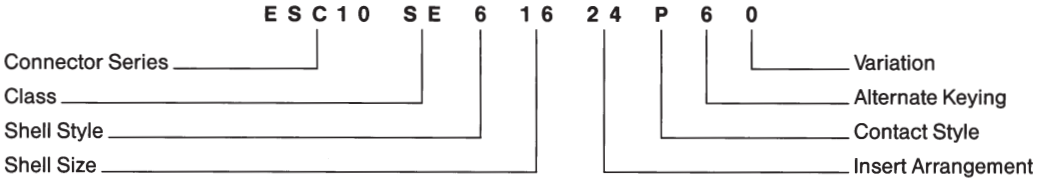
Shell Size
8, 10, 12, 14, 16, 18, 20 ,24, 28

Insert Arrangement
See Chart (Page 9)

Contact Style
M = Standard pin, C=#20 pin with #18 crimpwell
A = Pin insert less contacts
F = Standard socket
D = #20 socket with #18 crimpwell
B = Socket insert less contacts

Alternate Keying
N=Normal, 6, 7, 8, 9 and Y

Society of British Aerospace Companies/Rolls Royce Standards



Connector Series
ESC 10 Basic High Temperature Connector
ESC 11 100% Scoop Proof–High Temperature Connector

Class
- KE: Stainless Steel, Firewall (260°C)
- SE: Stainless Steel, Firewall (260°C) with Grounding Spring
- YE: Stainless Steel Hermetic (260°C)

Shell Style
- 0 Square Flange Receptacle with 360° accessory teeth per MS3155
- 1 Hermetic, Solder Mount
- 2 Hermetic, Square Flange
- 3 Hermetic, Jam Nut
- 6 Plug, Non-decoupling with 360° accessory teeth per MS3155

Shell Size
8, 10, 12, 14, 16, 18, 20 ,22, 24, 28

Insert Arrangement
See Chart (page 9)

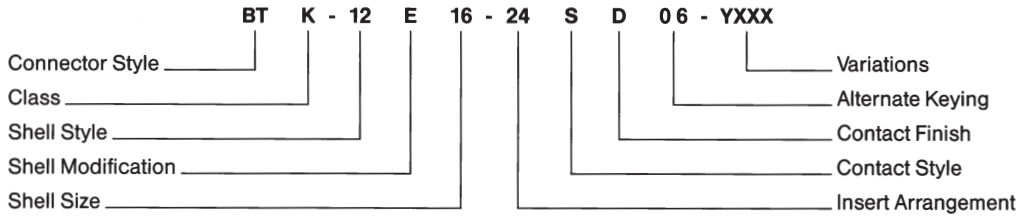
Contact Style
P = Pin S = Socket
(All connectors supplied w/o contacts except Shell Styles 1, 2, and 3)

Alternate Keying
N = Normal, 6, 7, 8, and 9 alternates

Variations
O = Basic Connector
Alphabetic identifiers as assigned
A = Lockwires holes on plug

ORDERING INFORMATION–EUROPEAN STANDARDS

Pyle Designation



Style
BT Threaded, 'O' Ring Seal (Std)
BJ Threaded, Static/Dynamic Seal (Optional)

Class
G Stainless Steel
K Stainless Steel Firewall
R Aluminum, Electroless Nickel Plated
W Aluminum, Olive Drab Cadmium over Nickel

Shell Style
12 Non-Decoupling Plug
17 Square Flange Receptacle
19 Jam Nut Receptacle

Shell Modification
E = 360° Accessory Teeth per MS3155
F = 360° Accessory Teeth per MS3155 with Grounding Spring on plug

Shell Size
8, 10, 12, 14, 16, 18, 20, 22, 24, 28

Insert Arrangement
See Chart (page 9)

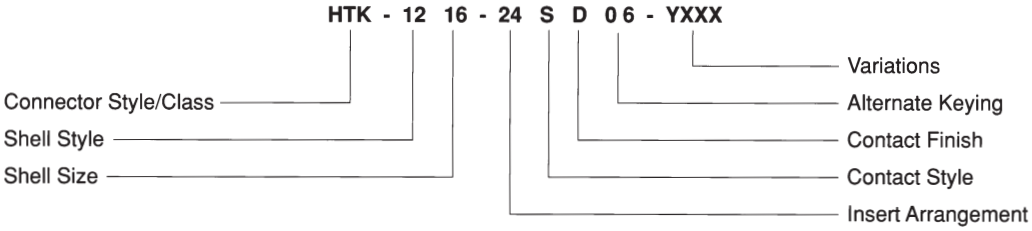
Contact Style
P = Standard pin
K = #20 pin with #18 crimpwell
S = Standard socket
L = #20 socket with #18 crimpwell

Contact Finish
D = Gold per MIL-C-39029 (Special High Temperature Contact–See Chart page 19)
E = Without Contacts per ESC 10

Alternate Keying
(Omit for Normal) 06, 07, 08, 09 and 10 alternates

Variations
Y144 260°C Capability (Euro Market)
Y163 200°C Capability (Euro Market)
Y175 Superseded by Y144
Y176 260°C per G.E. M50TF3564, Class B, No Accessory Teeth
Y185 Superseded by Y163
Y186 260°C Capability per G.E. M50TF3564 Class B
Y188 200°C Capability per G.E. M50TF3564 Class A

Pyle Designation–ESC 11 Series



Style/Class
HTK Standard ESC 11, Class K
HNK Nickel Finish, Class K, Static/Dynamic Seal

Shell Style
12 Non-Decoupling Plug
17 Square Flange Receptacle

Shell Size
12, 14, 16, 18, 20, 22, 24

Insert Arrangement
See Chart (page 9)

Contact Style
P = Pin
S = Socket

Contact Finish
D = Gold per MIL-C-39029 (optional) (Special High Temperature Contacts–See page 19)
E = Without Contacts per ESC 11

Alternate Keying
(Omit for Normal)
06, 07, 08 and 09 Alternates–
Not intermateable with ESC 10 (See page 8)

Variations
Y144 260°C
Y163 200°C
Y186 260°C per GE M50TF3564, Class B
Y188 200°C per GE M50TF3564, Class A

ORDERING INFORMATION FOR BOEING COMPANY

Boeing Designation (BACC63BR/BT Firewall)

BACC63BR 18 B 14 P 8 L A

- Connector Series
- Class
- Shell Style
- Shell Size
- Shell Modification
- Insert Arrangement
- Contact Style
- Alternate Keying
- Without Tactile Indicator
- Contact Procurement Option

Shell Style
BR—Non-Decoupling Plug, Firewall
BT—Square Flange Receptacle, Firewall

Boeing Specification Qualified Shell Sizes
12, 14, 16, 18, 20, 22, 24, 28

Boeing Specification Qualified Insert Arrangements
12-03, 14-04, 14-07, 16-10, 18-14, 20-16, 22-19, 24-30, 28-42

Shell Modifications
B = 360° Accessory Teeth per MS3155
D = 360° Accessory Teeth per MS3155 with Grounding Spring on plug
– = Accessory Teeth per MIL-C-83723 III

Contact Style
P = Pin S = Socket
(Gold Plate per MIL-C-39029)

Alternate Keying
N = Normal, 6, 7, 8, 9 and 10 (see page 8).

Contact Procurement Option
A = Without Contacts and Seal Plugs (Letter 'A' to be used on Purchase Orders only and will not appear on Connector as part of Connector Part Number)

Pyle Designation

BSK - 12 E 18 - 14 P D 08 - (XXX)

- Connector Series
- Shell Style
- Shell Modification
- Shell Size
- Insert Arrangement
- Contact Style
- Contact Finish/Nomenclature
- Alternate Keying
- Variations

Connector Series
BSK—Threaded, Stainless Steel Firewall Qualified to Boeing Co. BACC63BR/BT Specifications ("O" Ring Designation)

Shell Style
12—Threaded Non-Decoupling Plug
17—Square Flange Receptacle

Shell Modification
E = 360° Accessory Teeth per MS3155 plug & receptacle
F = 360° Accessory Teeth per MS3155 with Grounding Spring on plug only
(Blank) = Accessory Teeth per MIL-C-83723 III

Shell Size
12, 14, 16, 18, 20, 22, 24, 28

Insert Arrangements
See Chart (page 9).

Contact Style
P = Pin S = Socket

Contact Finish/Nomenclature
D = Gold per MIL-C-39029
E = Without Contacts

Alternate Keying
(Omit for Normal) 06, 07, 08, 09 and 10 (see page 8).

Variations
Y126—Contact Marking per MIL-C-83723/33 & 34 (Required with BACC63BR/BT Series)

Service Class - Military and Pyle

A Non-Corrosive Anodized Aluminum
G Corrosion Resistant Stainless Steel
K Corrosion Resistant Stainless Steel, Firewall Capability
R Conductive Finish Electroless Nickel Plated Aluminum
W Olive Drab, Cadmium over Nickel Plated Aluminum

ORDERING INFORMATION–EUROPEAN STANDARDS

Aerospatiale Designation

A S N - E O 4 4 2 SE 16 - 2 4 P 6 A

- Connector Series
- Shell Style
- Class
- Shell Size
- Insert Arrangement
- Contact Style
- Alternate Keying
- Contact Option

Shell Style
195*: Plug, Non-decoupling, accessory teeth per MIL-C-83723 III, Stainless steel
197*: Square Flange Receptacle, accessory teeth per MIL-C-83723 III, Stainless steel
320*: Plug, Non-decoupling, accessory teeth per MIL-C-83723 III, Aluminum
321*: Jam Nut Rec., accessory teeth per MIL-C83723 III, Aluminum
322*: Square Flange Rec., accessory teeth per MIL-C-83723 III, Aluminum
441: Plug, Non-decoupling, 360° accessory teeth per MS3155, Stainless steel
442: Plug, Non-decoupling, 360° accessory teeth per MS3155, with grounding spring, Stainless steel
443*: Square flange Receptacle, accessory teeth per MIL-C-83723 III, Stainless steel
444: Same as 443 with 360° accessory teeth per MS3155
451: Plug, Non-decoupling, 360° accessory teeth per MS3155
452: Plug, Non-decoupling, 360° accessory teeth per MS3155, with grounding spring, aluminum
453*: Square Flange Rec., 360° accessory teeth per MS3155, Aluminum
454: Same as 453 with 360° accessory teeth per MS3155

*Not active for new design

Class
K: Stainless Steel, Firewall, 200°C
KE: Stainless Steel, Firewall, 260°C
R: Aluminum, Electroless Nickel Finish, 200°C
RS: Aluminum Electroless Nickel Finish, 200°C, with grounding spring on plug
S: Stainless Steel, Firewall, 200°C, with grounding spring on plug
SE: Stainless Steel, Firewall, 260°C, with grounding spring on plug

Shell Size
8, 10, 12, 14, 16, 18, 20, 22, 24, 28

Insert Arrangement
See Chart (page 9)

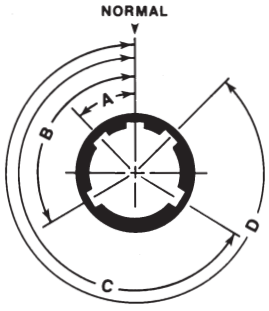
Contact Style
P = Pin S = Socket

Alternate Keying
N = Normal, 6, 7, 8, 9 and Y

Contact Option
Omit = with Contacts
A = without Contacts
Note: Per ASN-E, #20 contacts with #18 crimpwell supplied standard when ordered with connectors.

ALTERNATE KEYING

ALTERNATE POLARITY
KEYWAY ARRANGEMENTS
View of front face of receptacle shell. Angles are counter clockwise from "N" keyway. For plug shell, the key locations are clockwise when viewed from front of plug.



Position	For Connectors Size 8 and 10				For Connectors Size 12, 14, 16, 18, 20, 22, 24, and 28			
	A	B	C	D	A	B	C	D
Normal	105°	140°	215°	265°	105°	140°	215°	265°
6	102°	132°	248°	320°	18°	149°	192°	259°
7	80°	118°	230°	312°	92°	152°	222°	342°
8	35°	140°	205°	275°	84°	152°	204°	334°
9	64°	155°	234°	304°	24°	135°	199°	240°
Y(10*)	25°	115°	220°	270°	98°	152°	268°	338°

*Not Available in Size 8 Connector

ESC 11 (ONLY)

Position	For Connectors Size 14 thru 24			
	A	B	C	D
Normal	95	145	220	255
6	101	168	211	342
7	18	138	208	268
8	26	156	208	276
9	120	161	225	336