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Amphenol MIL-DTL-26500, Pyle®

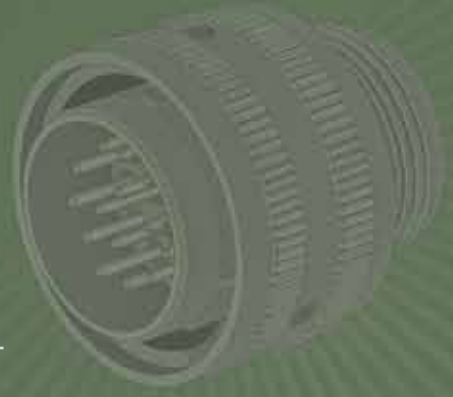


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 New/Featured



MIL-DTL-26500, Pyle® Typical Markets:

- Military & Commercial Aviation
- High Temperature Applications
- Meets Boeing Specifications
- Missiles & Ordnance

Amphenol
Aerospace 

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

High quality and dependability are the earned reputations of the Amphenol/Pyle Series of connectors designed to meet the specification requirements of MIL-DTL-26500. Serving such diverse fields as avionics, missile systems, aircraft general-purpose applications, aircraft engines and firewalls.

Amphenol /Pyle MIL-DTL-26500 Connectors are medium sized connectors with a rugged design, lightweight construction and continuously dependable performance. This product family provides the following design features and options:

Aluminum Connectors - Military Classes R and G; Proprietary (ZZY, ZZW)

- General purpose, environmentally resistant
- Threaded or bayonet coupling
- Square flange or single hole receptacles, and straight plug shell styles
- Black anodize non-conductive finish for class R and a conductive finish in class G that provides a minimum resistance path through the shell for grounding purposes
- Coupling nuts are hard coat treated for added protection against wear
- Rear accessory threads accommodate standard MS27291 series cable supports or related accessory hardware



Stainless Steel Connectors - Military Class E; Proprietary (ZZY, ZZW)

- Machined from 300-series stainless steel providing superior strength and wear characteristics
- Threaded or bayonet coupling
- Shells experience a less than 10% loss in yield strength at elevated temperatures, 204°C (399°F)
- Shell hardware resists corrosion for the life of the connector without the need of additional finishes
- Same shell styles offered as in aluminum
- Variety of stainless steel accessories are available



Firewall Connectors – Military Class K; Proprietary (FPK, FYL)

- Meets the fireproof requirements of MIL-DTL-5015, Class K
- Threaded or bayonet coupling
- FPL - threaded coupling; same as FPK; used on Lockheed Aircraft
- FP5K - threaded coupling; same as FPK; qualified for General Electric
- Non-magnetic stainless steel shells designed for superior strength and elevated temperatures up to 460°F for extended periods
- Same shell styles as stainless steel and aluminum versions



48 Series Receptacle Short Skirt - Amphenol special application connector

- Low profile design for restricted installation requirements
- Wire Splice Connector
- Space saving, single contact, wire splice module

Hermetic Connectors - Military Class H; Proprietary (ZZL, ZZB)

- See page 421 for brief description
- See page 421 for hermetic insert availability
- Consult Amphenol Aerospace for availability and ordering information.



Contacts and Accessories for MIL-DTL-26500 connectors

- SAE AS39029 qualified contacts and special application contacts including thermocouple, printed circuit board and shielded/coaxial types
- Boeing specification contacts
- Aluminum and stainless steel cable supports; aluminum dummy receptacles
- Contact crimping/ installation/removal tools for Amphenol 48 series and Pyle-National MIL-DTL-26500 series

Commercial Design with PC Tail Contacts

- Single piece insert construction
- PC Tail Contacts
- Special shell geometries
- For high volume cost sensitive applications



MIL-DTL-26500, Pyle® Connectors

Features and Class Descriptions

Amphenol®/Pyle MIL-DTL-26500 Connectors are qualified to Military Specification MIL-DTL-26500, as well as numerous high performance customer specifications. These connectors are available in aluminum or stainless steel shells, with bayonet or threaded coupling, and are qualified to meet the specifications of the following MIL-DTL-26500 classes:

MIL-DTL-26500 Classes	Amphenol/Pyle Series Classes	Hardware Description	Finish
Class R: (Environmental Resistant)	A	Aluminum Alloy	Black Anodize
Class G	M	Aluminum Alloy	Chromium
Class E	R	Stainless Steel	Passivated
Class K Firewall	FPK/FYL	Stainless Steel	Passivated
Class H Hermetic	HC	CRS/Stainless Steel	Various

Crimp Contacts

Rear-insertable, front-releasable, crimp style contacts are machined from a copper alloy material, plated gold over nickel, and are qualified to specification SAE AS39029.

Contacts are crimp terminated outside the connector assembly and inserted into the appropriate cavity by means of a hand tool. Socket contacts utilize a multi-tined construction and feature a “C” spring which grips the tines, and ensures consistent and repetitive insertion/withdrawal forces. Contact tines are protected by a stainless steel shroud.

An optional pencil-clip thermocouple socket design is also offered. See page 422 for more information on thermocouple contacts.

Alternate Keying

All MIL-DTL-26500 Series Connector shells can be furnished with normal or any of five alternate key positions. (See page 400). Each plug shell has a master key and four alternate keys. The position of the alternate keys in relation to the fixed master key determines the key identification. Inserts are bonded to the shell in relation to the master key, thus allowing positive protection against mis-mating when differing circuits exist side by side.

Connector Sealing

The insert design utilizes a combination of resilient and rigid insulators to offer a connector with total sealing capabilities. Bonded interfaces between the resilient and rigid dielectric components eliminate air voids and thus protect the connector from potential degradation due to moisture and altitude conditions.

In Firewall Class K connectors, the resilient insert forms the primary contact seal and is bonded to a molded ceramic rigid insert. The insert assembly is physically bonded and mechanically retained to the inside surface of the stainless steel shell, providing a void-less, mono-block configuration impervious to adverse environments.

A pressure seal at the connector interface is accomplished through the aid of a coupling device which compresses the front resilient insulations and thus offers a seal around each contact which prevents the passage of air or moisture through the contact cavity.

Back resilient insulators are designed with a triple sealing grip at each wire hole to offer positive sealing and prevent wicking of moisture through the connector without the use of external clamping rings or adapters.



In addition, a dynamic “O” ring seal engages the front of the plug shell when connectors are mated and offers yet another barrier to moisture and containments.

Fluid/Temperature Resistance

The fluorosilicone compound elastomer, developed by Pyle-National, exceeds all specification requirements and provides excellent resistance to tear, compression set, fluids, and high temperatures.

Amphenol/Pyle’s fluorosilicone compound offered in Class R, G, E and K is capable of reliability resisting:

- MIL-H-5606 hydraulic fluid
- MIL-L-9236 lubricating oil
- MIL-L-7808 and MIL-L-23699 lubricating oils
- MIL-J-5624 (JP-5) jet fuel
- Glycol
- Alkaline cleaning solutions of pH 10 or higher.

Test methods are as defined in MIL-DTL-26500 specification. Alternate compounds have been developed by Pyle-National to solve unique user requirements not addressed by the specifications.

Connectors have the capability of resisting high ambient temperatures up to 200°C (392°F) for long periods of time, thus contributing to an extended connector life. Connectors will withstand a combined ambient and internal temperature due to thermal rise of current carrying capacity of 238°C (469°F).

Amphenol®/Pyle® Firewall, Class K, connectors have the inherent ability to resist high temperatures up to 460°F (total temperature) for extended periods of time and can resist short time exposures (20 minutes) to prevent passage of a direct 2000°F flame.

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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

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

TEST REQUIREMENTS	MILITARY SPECIFICATIONS	PYLE CONNECTOR CAPABILITIES
Air Leakage (Classes E, G, R & K)	1 cu. inch per hr. max. -55°C (-67°F)	Comply
Altitude Immersion (Classes E, G, R & K)	Sea level 1 inch of mercury, 3 cycles (IR 5000 megohms hi-pot 1500 volts-submerged)	Comply
Contact Retention (Classes E, G, R & K)	Size 20 contact 20 lbs. min. Size 16 contact 25 lbs. min. Size 12 contact 30 lbs. min.	Exceeds specifications
Collet Retention	No requirement	Without damage to the collet or its Size 20 – 75 lbs. min. Size 16 – 140 lbs. min. Size 12 – 160 lbs. min.
Contact Insertion Force (Classes E, G, R & K)	All size contacts 10 lbs. max.	Comply
Coupling Forces	Torque required to couple and uncouple mating plugs and receptacles is not to exceed the values listed: Shell size Torque inch lbs. 8 10 12 14 16 18 20 22 24 9 10 14 17 23 26 31 38 46	Comply
Fluid Resistance (Classes E, G, R & K)	20 hrs. immersion in MIL-H-5606 hydraulic fluid and MIL-L-9236 lubrication oil. Must meet hi-pot.	20 hrs. min., fully functional physically and electrically after immersion. No deterioration of resilient material.
Ground Resistance (Class G)	.250 ohms backshell of plug to rear of receptacle flange.	Comply
High Potential (Classes E, G, R & K)	1500 VRMS mated & unmated at sea level 1000 VRMS mated to 110,000 ft. altitude	Exceed with ample margin of safety.
Insert Retention (Classes E, G, R & K)	75 psi. from either direction for 5 seconds.	Exceeds specifications.
Insulation Resistance (Classes E, G, R & K)	21°C (70°F), 5000 megohms between adjacent contacts and any contact and shell.	Exceeds specifications.
Low Temperature (Classes E, G, R & K)	-55°C (-67°F)	Comply
Magnetic Permeability (Classes E, G, R & K)	2 mu. maximum	Comply
Moisture Resistance (Classes E, G, R & K)	1000 megohms min. per MIL-STD. 202 method 106	Comply
Ozone Exposure (Classes E, G, R & K)	0.10 to .015% ozone exposure	Comply
Physical Shock (Classes E, G, R & K)	50 G's, 3 axis, per MIL-STD-202, method 213, test condition C, wired to monitor 1 microsecond discontinuity.	Comply
Sand & Dust Exposure (Classes E, G, R & K)	No requirement.	Meet MIL-E-5272 condition "B"
Temperature Life (Classes E, G, R & K)	Connector fully functional for 1000 hours at 200°C (392°F) ambient internal temperature 238°C (460°F)	Comply
Thermal Shock (Mated) (Classes E, G, R & K)	Cycled five times from -55°C to 260°C, held for 30 minutes at each temperature and transferred to the other in 2 minutes or less, with no evidence of damage.	Comply
Vibration (Classes E, G, R & K)	MIL-Std. 202 method 204 condition "D" at R. T., -55°C (-67°F) and +200°C (+392°F).	Comply - monitored for a max. of 1 microsecond discontinuity.
Flame Resistance (Class K)	Performance requirements of Paragraph 4.5.18 Fireproof (Class K of MIL-DTL-5015D)	Exceeds specifications

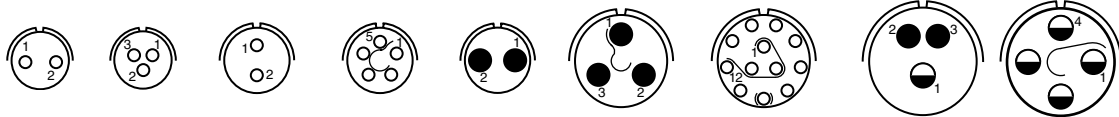
MIL-DTL-26500, Pyle®

Insert Arrangements

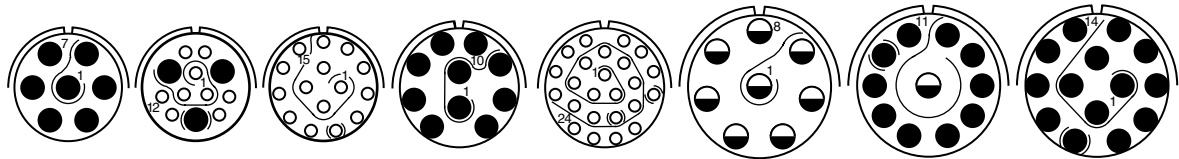


Front Face of Pin Insert or Rear Face of Socket Insert Illustrated

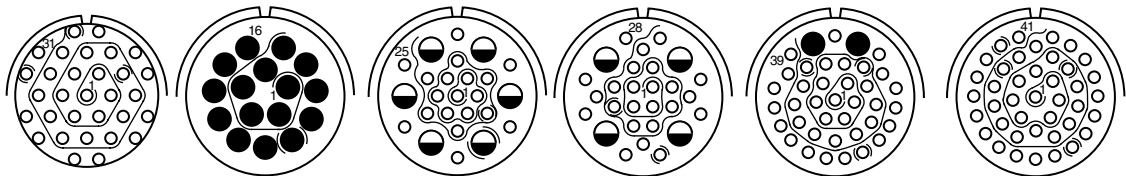
Contact cavities are identified with a spiral guide line indicating cavity sequence. The first and last cavities are numbered and every tenth cavity is bracketed. Symmetrical about center line.



Insert Arrangement	08-02	08-03 ^H	10-02 ^{**}	10-05 ^H	10-20 ^H	12-03 ^{KH}	12-12 ^H	14-03	14-04 ^K
Service Rating	I	I	I	I	I	I	I	I	I
Number of Contacts	2	3	2	5	2	3	12	2	4
Contact Size	20	20	20	20	16	16	20	16	12
								12 Shielded Coaxial	



Insert Arrangement	14-07 ^{KH}	14-12	14-15 ^{KH}	16-10 ^{KH}	16-24 ^{KH}	18-08 ^{KH}	18-11	18-14 ^{KH}
Service Rating	I	I	I	I	I	I	1	I
Number of Contacts	7	9	3	15	10	24	8	10
Contact Size	16	20	16	20	16	20	12	16
								12 Shielded Coaxial



Insert Arrangement	18-31 ^{KH}	20-16	20-25	20-28 ^{**}	20-39	20-41
Service Rating	I	I	I	I	I	I
Number of Contacts	31	16	19	6	24	4
Contact Size	20	16	20	12	20	12
					37	2
					20	16
						20

† Designates Non-MS Configurations.
 K designates Firewall Class K inserts.
 H designates Hermetic inserts.

CONTACT LEGEND
 ○ 20 ● 16 ◐ 12

- 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-Shell's
- Options
- Others

Front Face of Pin Insert or Rear Face of Socket Insert Illustrated

Contact cavities are identified with a spiral guide line indicating cavity sequence. The first and last cavities are numbered and every tenth cavity is bracketed. Symmetrical about centerline.

38999

III

HD

Dualok

II

I

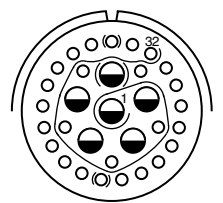
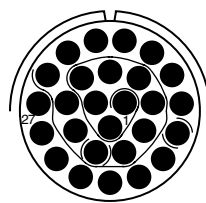
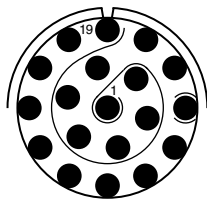
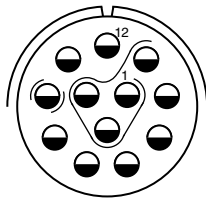
SJT

Accessories

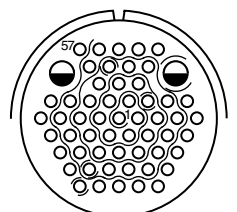
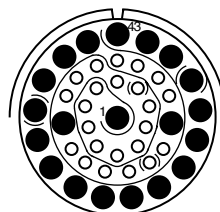
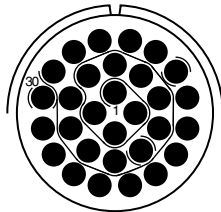
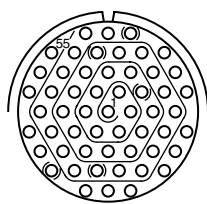
Aquacon

Herm/Seal

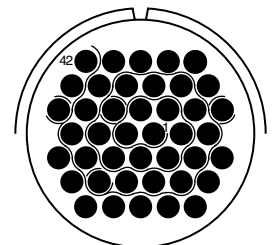
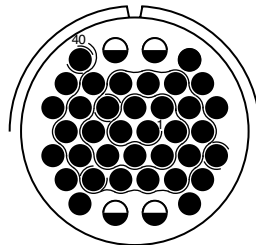
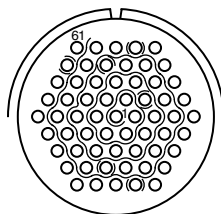
PCB



Insert Arrangement	22-12 ^K	22-19 ^{KH}	22-27 [†]	22-32
Service Rating	I	I	I	I
Number of Contacts	12	19	27	26 6
Contact Size	12	16	16	20 12



Insert Arrangement	22-55 ^{KH}	24-30 ^{†K}	24-43 ^{**}	24-57
Service Rating	I	I	I	I
Number of Contacts	55	30	23 20	55 2
Contact Size	20	16	20 16	20 12



Insert Arrangement	24-61	28-40 ^{†K}	28-42 ^{†K}
Service Rating	I	I	I
Number of Contacts	61	36 4	42
Contact Size	20	16 12	16

† Designates Non-MS Configurations.
K designates Firewall Class K inserts.
H designates Hermetic inserts.

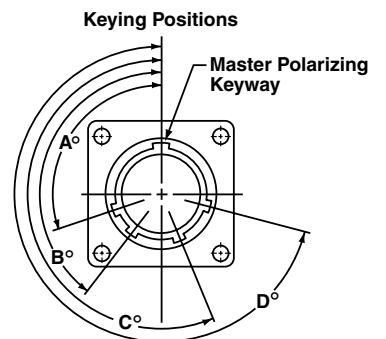
CONTACT LEGEND 20 16 12

Alternate Keying Positions of Shells

ALTERNATE POLARITY KEYWAY ARRANGEMENTS (Shell sizes 12, 14, 16, 18, 20, 22, 24, 28) 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 or 10*	25°	115°	220°	270°	98°	152°	268°	338°

* Y is used for all Military part number call-outs - aluminum/stainless steel and firewall; 10 is used for Amphenol/Pyle part number call-outs - aluminum/stainless steel only. (See how to order pages 403, 404 and 414).






Shown is Engaging Face View of Receptacle Shell with Keyways (Plug Shell Keys would be Opposite)

THREADED COUPLING

PYLE ZZY




MS2426X()TXX

Shell Style (Stainless Steel pictured)	Basic Performance Level	Hardware Description*	Class*	Basic Part Number**
 Square Flange Mounted Receptacle Threaded Coupling	General Purpose, Environmental Resistant	Aluminum	Military Class R or G	MS24264(R or G)XXTXX
			Pyle A or M Series	ZZY-(A or M)X-17XX
	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel	Military Class E	MS24264EXXTXX
			Pyle R Series	ZZY-RX-17XX
 Single Hole (D-Hole) Mounted Receptacle Threaded Coupling	General Purpose, Environmental Resistant	Aluminum	Military Class R or G	MS24265(R or G)XXTXX
			Pyle A or M Series	ZZY-(A or M)X-15XX
	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel	Military Class E	MS24265EXXTXX
			Pyle R Series	ZZY-RX-15XX
 Straight Plug Threaded Coupling	General Purpose, Environmental Resistant	Aluminum	Military Class R or G	MS24266(R or G)XXTXX
			Pyle A or M Series	ZZY-(A or M)X-10XX
	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel	Military Class E	MS24266EXXTXX
			Pyle R Series	ZZY-RX-10XX

BAYONET COUPLING

PYLE ZZW

MS2426X()BXX

Shell Style (Stainless Steel pictured)	Basic Performance Level	Hardware Description*	Class*	Basic Part Number**
 Square Flange Mounted Receptacle Bayonet Coupling	General Purpose, Environmental Resistant	Aluminum	Military Class R or G	MS24264(R or G)XXBXX
			Pyle A or M Series	ZZW-(A or M)X-17XX
	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel	Military Class E	MS24264EXXTXX
			Pyle R Series	ZZW-RX-17XX
 Single Hole (D-Hole) Mounted Receptacle Bayonet Coupling	General Purpose, Environmental Resistant	Aluminum	Military Class R or G	MS24265(R or G)XXBXX
			Pyle A or M Series	ZZW-(A or M)X-15XX
	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel	Military Class E	MS24265EXXTXX
			Pyle R Series	ZZW-RX-15XX
 Straight Plug Bayonet Coupling	General Purpose, Environmental Resistant	Aluminum	Military Class R or G	MS24266(R or G)XXBXX
			Pyle A or M Series	ZZW-(A or M)X-10XX
	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel	Military Class E	MS24266EXXTXX
			Pyle R Series	ZZW-RX-10XX

NA designates not available

* See how to order, page 403, for further description of hardware classes.

** See how to order, page 403, to complete part numbers.

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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-Shell's

Options Others

38999

**RATCHET LOCK PLUG, BAYONET
PYLE ZZY**

Shell Style (Stainless steel only)	Basic Performance Level	Hardware Description*	Class*	Basic Part Number**
 <p>Ratchet Lock Plug Non-Decoupling</p>	Superior Strength, Corrosion Resistance up to 204°C (399°F) Employs ratchet feature in last 120° of rotation to eliminate need for safety-wiring	Stainless Steel only	Pyle R Series (Commercial only)	ZZY-RX-12XX
<p>NNDC Plug New Non-Decoupling</p>	Superior Strength, Corrosion Resistance up to 204°C (399°F)	Stainless Steel only	Pyle R Series (Commercial only)	ZZY-RX-13XX

* See how to order, page 403, for further description of hardware classes.
** See how to order, page 403, to complete part numbers.



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Accessories
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Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

**RATCHET LOCK PLUG & MATING FLANGE MOUNTED, THREADED RECEPTACLE
PYLE ZZY**

Shell Style (Stainless steel pictured)	Basic Performance Level	Hardware Description*	Class*	Pyle Basic Part Number**
 <p>Ratchet Lock Plug Non-Decoupling</p>	Designed to meet high vibration requirements beyond MIL-DTL-26500.	Aluminum	Pyle A Series	ZZY (A, D, F, M) X-12 (D, E or F) XX
		Stainless Steel	Pyle R Series	ZZY-RX-12 (D, E or F)XX
 <p>Square Flange Mounted Receptacle Threaded Coupling</p>	Designed to meet high vibration requirements beyond MIL-DTL-26500.	Aluminum	Pyle A Series	ZZY (A or F) X-17(D, E or F) XX
		Stainless Steel	Pyle R Series	ZZY-RX-17 (D, E or F) XX

* See how to order, page 404, for further description of hardware classes.
** See how to order, page 404, to complete part numbers.

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear Release Matrix

22992
Class 1

Back-Shells

Options
Others

Easy steps to build a part number... Military

1. Shell Style	2. Service Class	3. Shell Size	4. Coupling Type	5. Insert Arrangement	6. Contact Type	7. Alternate Keying
MS24266	R	22	T	55	P	6

Step 1. Select a Shell Style

	Designates
MS24264	Square Flange Mounted Receptacle
MS24265	Single D-Hole Mounted Receptacle
MS24266	Straight Plug

Step 5. Select an Insert Arrangement from page 399 & 400

Arrangements. First number represents Shell Size, second number is the Insert Arrangement.

Step 2. Select a Service Class

	Designates
R	Aluminum, non-conductive (black anodize finish)
G	Aluminum, conductive (chromium finish)
E	Stainless steel, Passivated

Step 6. Select a Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

Step 3. Select a Shell Size

8	10	12	14	16	18	20	22	24
---	----	----	----	----	----	----	----	----

Step 7. Select an Alternate Keying Position of Shell

6, 7, 8, 9, Y (N for Normal) See page 400.

Step 4. Select a Coupling Type

	Designates
T	Threaded
B	Bayonet

Easy steps to build a part number... Pyle Commercial

1. Shell Style	2. Service Class	3. Contacts/ Accessories	4. Shell Style	5. Shell Size	6. Insert Arrangement	7. Contact Type	8. Alternate Keying	9. Contact Plating	10. Deviations/ Specials
ZZY	A	C	10	22	55	P	6	D	XXX

Step 1. Select a Shell Style

	Designates
ZZY	Threaded Coupling
ZZW	Bayonet Coupling

Step 4. Select a Shell Style

	Designates
10	Straight Plug
12	Non-Decoupling Plug(Ratchet Lock)
13	New Non-Decoupling Plug (NNDC) (SS only)
15	Single Hole Mounting Receptacle
17	Square Flange Receptacle

Step 2. Select a Service Class

	Designates
A	Aluminum, non-conductive (black anodize finish)
D	Aluminum, O.D. CAD/Ni
F	Aluminum, Clear Cadmium plated
M	Aluminum, conductive (chromium finish)
R	Stainless steel, Passivated

Step 8. Select an Alternate Keying Position of Shell

06, 07, 08, 09, 10 (Omit for Normal) See page 400.

Step 3. Select Contacts & Accessories

	Designates
No Digit	with contacts and cable support
C	without cable support, with contacts
D	Without contacts, with cable support
O	Without contacts or cable support

Step 5. Select a Shell Size

8	10	12	14	16	18	20	22	24	28
---	----	----	----	----	----	----	----	----	----

Step 6. Select an Insert Arrangement from page 399 & 400

Arrangements. First number represents Shell Size, second number is the Insert Arrangement.

Step 7. Select a Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

Step 9. Select a Contact Plating

	Designates
D	Gold
T	Rhodium

Step 10. Deviation/ Specials

Consult Amphenol for more information.

Accessory threads for aluminum and stainless steel hardware differ, and care should be taken in selection of alternate accessory hardware that will conform to the threads noted in the dimensional tables within this catalog.

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-Shell's

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 1

- Back-Shells

- Options
- Others

Amphenol®/Pyle® connectors are specifically designed to meet high vibration requirements above and beyond the specification requirements of MIL-DTL-26500. The plug connector features a unique non-decoupling device which offers a ratchet mechanism designed to engage as the threaded connectors approach a bottomed condition. Connector coupling assembly continues to ratchet for approximately 120 degrees until the mated connectors reach a complete metal-to-metal bottomed condition. The ratchet device maintains the connectors in a fully coupled condition, thus eliminating the need for safety wiring.



Additional features include:

- Modified accessory thread to accommodate MIL-DTL-83723 backshell hardware.
- Rear accessory teeth are featured on both the plug and receptacle shell to assure non-rotation of accessory hardware
- Intermateable with all MIL-DTL-26500 threaded connectors of like insert arrangement and key position

Easy steps to build a part number... Pyle Commercial

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
	Shell Style	Service Class	Contacts & Accessories	Shell Style	Accessory Style	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/ Specials
	ZZY	A	C	12	D	14	04	P	06	D

Step 1. Select a Shell Style

	Designates
ZZY	Threaded Coupling

Step 5. Select a Shell Size

10	12	14	16	18	20	22	24	28
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

Step 2. Select a Service Class

	Designates
A	Aluminum, non-conductive (black anodize finish)
D	Aluminum, O.D. CAD/Ni
F	Aluminum, Clear Cadmium plated
M	Aluminum, conductive (chromium finish)
R	Stainless steel, Passivated

Step 6. Select an Insert Arrangement from Page 399 & 400

First number represents Shell Size, second number is the Insert Arrangement.

Step 3. Select Contact & Accessory

	Designates
No Digit	With contacts and clamp
C	With contacts
O	Without contacts

Step 7. Select a Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

Step 4. Select a Shell Style

	Designates
12	Non-Decoupling Plug, (Ratchet Lock)
13	New Non-Decoupling Plug (NNDC) (SS only)
17	Square Flange Mounted Receptacle

Step 8. Select an Alternate Keying Position of Shell

06, 07, 08, 09, 10 (Omit for Normal) See page 400

Step 5. Select Accessory Style

	Designates
D	Rear accessories per MIL-DTL-83723, 3 Accessory Serrations.
E	Rear accessories per MS 3155 (360° Accessory Serrations)
F	Rear accessories per MS 3155 with EMI Band (360° Accessory Serrations)

Step 9. Select a Contact Plating

	Designates
D	Gold plate per MIL-DTL-39029
T	Rhodium plate per MIL-DTL-26636

Step 10. Deviations/Specials

Consult Amphenol for more information.

Accessory threads for aluminum and stainless steel hardware differ, and care should be taken in selection of alternate accessory hardware that will conform to the threads noted in the dimensional tables within this catalog.

MS24264, Pyle® ZZY, MIL-DTL-26500

Square Flange Mounted Receptacle, Threaded



Part

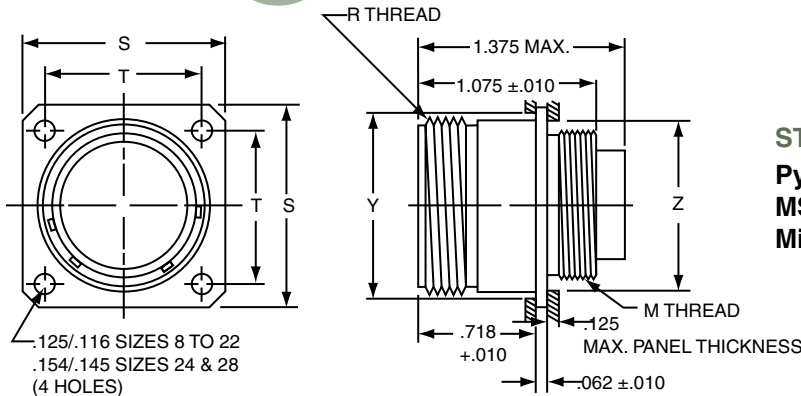
To complete see how to order page 403.

Military

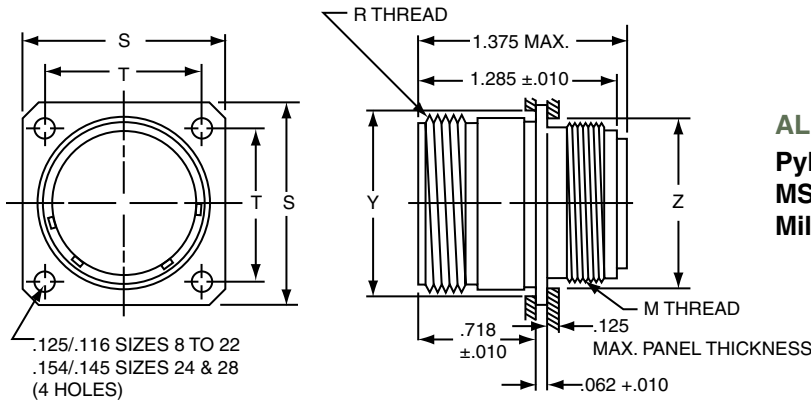
Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying
MS24264	E, R, G	XX	T	XX	X	X

Commercial

Shell Style	Service Class	Contacts & Accessories	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/ Specials
ZZY	X	X	17	XX	XX	X	X	X	XXX



STAINLESS STEEL
Pyle ZZY-RX-17XX Series
MS24264EXXTXX
Military Class E



ALUMINUM
Pyle ZZY-XX-17XX Series
MS24264RXXTXX
Military Class R and G

Shell Size	M Cable Support Thread		Aluminum Connector Weight (lbs.) max including Contacts		R Coupling Thread	S Flange Width ±.005	T Mounting Hole Centers ±.005	Y Back Mount Min. Hole	Z Front Mount Min. Hole
	Steel NS-2A	Alum. UNEF-2A Modified	Pin Insert	Socket Insert					
08**	NA	.437-28	.025	.026	.562-24	.812	.594	.606	.443
10	.563-36	.562-24	.042	.044	.687-24	.937	.719	.748	.572
12	.733-36	.750-20	.061	.062	.875-20	1.031	.812	.913	.760
14	.803-36	.812-20	.072	.074	.937-20	1.125	.906	.980	.822
16	.930-36	.937-20	.087	.090	1.062-18	1.250	.969	1.107	.948
18	1.036-36	1.062-18	.110	.112	1.187-18	1.343	1.062	1.209	1.072
20	1.161-36	1.187-18	.130	.134	1.312-18	1.437	1.156	1.325	1.197
22	1.286-36	1.312-18	.152	.159	1.437-18	1.562	1.250	1.452	1.322
24	1.411-36	1.437-18	.181	.188	1.562-18	1.703	1.375	1.577	1.448
28†	1.661-36	NA	NA	NA	1.812-16	2.000	1.562	1.827	1.700

NA designates not available. ** Not available in Stainless Steel. † Not available in Aluminum. All dimensions for reference only.

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
Crmp Rear
Release
Matrix

22992
Class 1

Back-
Shell's

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

Part #

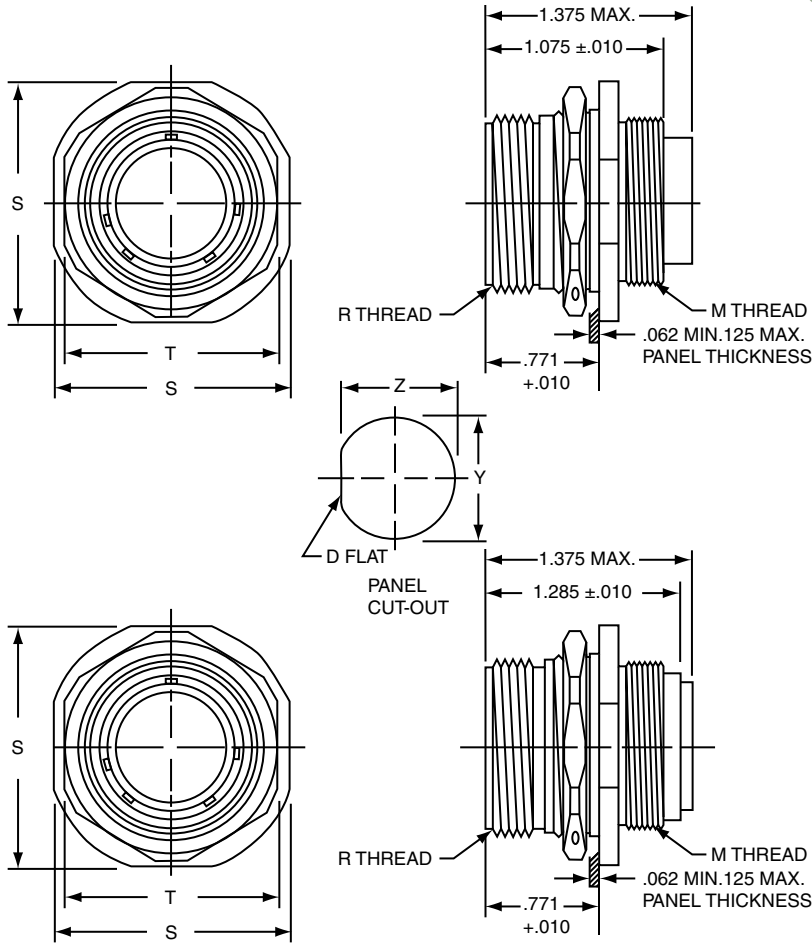
To complete see how to order page 403.

Military

Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying
MS24265	E or R	XX	T	XX	X	X

Commercial

Shell Style	Service Class	Contacts & Accessories	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/ Specials
ZZY	X	X	15	XX	XX	X	X	X	XXX



STAINLESS STEEL
Pyle ZZY-RX-15XX Series
MS24265EXXTXX
Military Class E

ALUMINUM
Pyle ZZY-XX-15XX Series
MS24265RXXTXX
Military Class R

Shell Size	M Cable Support Thread		Aluminum Connector Weight (lbs.) max including Contacts		R Coupling Thread	S Flange Width ±.005	T Lock Nut Flats		Y Dia Mounting Hole	Z Flat Mounting Hole	Rec. min. Torque Jam Nut Inch/Lbs.
	Steel NS-2A	Alum. UNEF-2A Modified	Pin Insert	Socket Insert			Steel	Alum.			
08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	.563-36	.562-24	.049	.050	1.171-24	1.104	.937	.937	.760	.730	36
12**	NA	.750-20	.069	.070	.875-20	1.291	1.125	1.125	.947	.917	56
14	.803-36	.812-20	.087	.089	.937-20	1.391	1.062	1.187	1.010	.980	65
16	.930-36	.937-20	.104	.106	1.062-18	1.516	1.187	1.312	1.135	1.105	69
18	1.036-36	1.062-18	.131	.133	1.187-18	1.614	1.312	1.437	1.260	1.225	81
20	NA	NA	.152	.157	NA	NA	NA	NA	NA	NA	100
22	1.286-36	1.312-18	.181	.187	1.312-18	1.954	1.562	1.687	1.510	1.475	123
24	1.411-36	1.437-18	.208	.212	NA	NA	NA	NA	NA	NA	133
28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

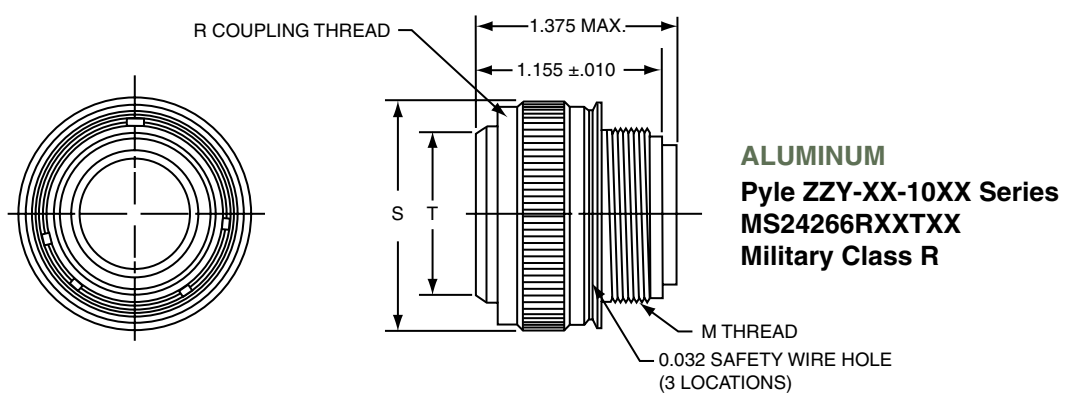
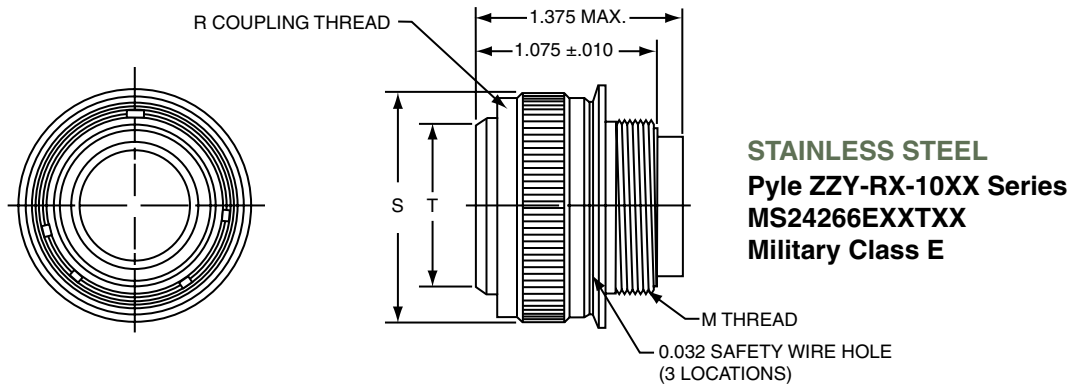
NA designates not available. ** Not available in Stainless Steel. All dimensions for reference only.

MS24266, Pyle® ZZY, MIL-DTL-26500

Straight Plug, Threaded

Part #		Military								
To complete see how to order page 403.										
Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying				
MS24266	E or R	XX	T	XX	X	X				
Commercial										
Shell Style	Service Class	Contacts & Accessories	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/Specials	
ZZY	X	X	10	XX	XX	X	X	X	XXX	

- 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

Shell Size	M Cable Support Thread		Aluminum Connector Weight (lbs.) max including Contacts		R Coupling Thread	S Dia. Max Coupling Nut		T Shell Dia. +.000 - .005
	Steel NS-2A	Alum. UNEF-2A Modified	Pin Insert	Socket Insert		Steel	Alum.	
08**	NA	.437-28	.030	.031	.562-24	NA	.776	.424
10	.563-36	.562-24	.044	.045	.687-24	.826	.906	.526
12	.733-36	.750-20	.063	.064	.875-20	.996	1.078	.696
14	.803-36	.812-20	.074	.076	.937-20	1.066	1.141	.765
16	.930-36	.937-20	.091	.094	1.062-18	1.193	1.266	.892
18	1.036-36	1.062-18	.110	.112	1.187-18	1.299	1.375	.998
20	1.161-36	1.187-18	.133	.136	1.312-18	1.424	1.510	1.123
22	1.286-36	1.286-18	.154	.160	1.437-18	1.549	1.625	1.248
24	1.411-36	1.437-18	.184	.188	1.562-18	1.674	1.760	1.373
28†	1.661-36	NA	NA	NA	1.812-16	1.912	NA	1.623

NA designates not available. ** Not available in Stainless Steel. † Not available in Aluminum. All dimensions for reference only.

- 5015 Crimp Rear Release Matrix
- 22992 Class 1
- Back-Shell
- 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

Part #

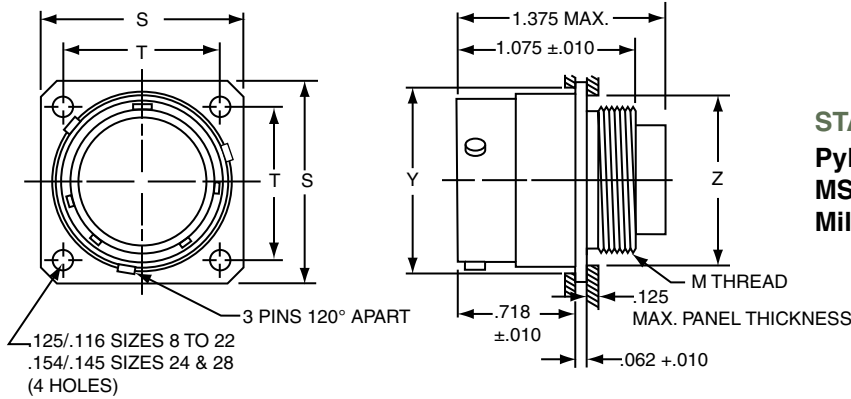
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Military

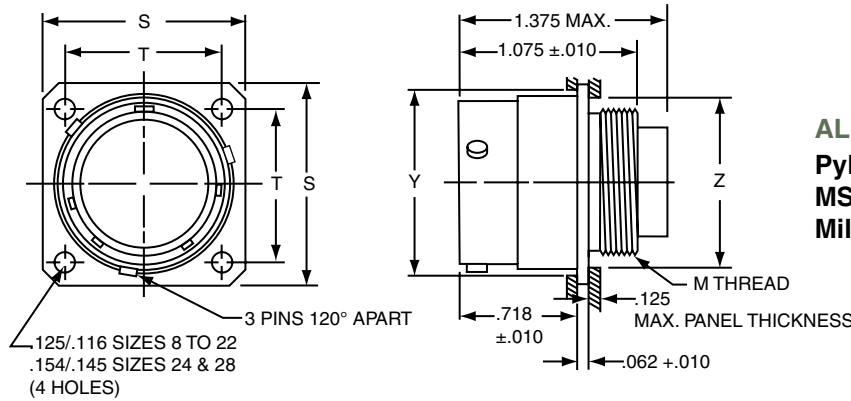
Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying
MS24264	E or R	XX	B	XX	X	X

Commercial

Shell Style	Service Class	Contacts & Accessories	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/ Specials
ZZW	X	X	17	XX	XX	X	X	X	XXX



STAINLESS STEEL
Pyle ZZW-RX-17XX Series
MS24264EXXBXX
Military Class E



ALUMINUM
Pyle ZZW-XX-17XX Series
MS24264RXXBXX
Military Class R

Shell Size	M Cable Support Thread		Aluminum Connector Weight (lbs.) max including Contacts		S Flange Width ±.005	T Mounting Hole Centers ±.005	Y Back Mount Min. Hole	Z Front Mount Min. Hole
	Steel NS-2A	Alum. UNEF-2A Modified	Pin Insert	Socket Insert				
08**	NA	.437-28	.025	.026	.812	.594	.606	.443
10	.563-36	.562-24	.042	.044	.937	.719	.748	.572
12	.733-36	.750-20	.061	.062	1.031	.812	.913	.760
14	.803-36	.812-20	.072	.074	1.125	.906	.980	.822
16	.930-36	.937-20	.087	.090	1.250	.969	1.107	.948
18	1.036-36	1.062-18	.110	.112	1.343	1.062	1.209	1.072
20	1.161-36	1.187-18	.130	.134	1.437	1.156	1.325	1.197
22	1.286-36	1.312-18	.152	.159	1.562	1.250	1.452	1.322
24**	NA	1.437-18	.181	.188	1.703	1.375	1.577	1.447
28	NA	NA	NA	NA	NA	NA	NA	NA

NA designates not available. ** Not available in Stainless Steel. All dimensions for reference only.

MS24265, Pyle® (ZZW), MIL-DTL-26500

Single Hole (D-Hole) Mounted Receptacle, Bayonet



Part

To complete see how to order page 403.

Military

Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying
MS24265	E or R	XX	B	XX	X	X

Commercial

Shell Style	Service Class	Contacts & Accessories	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/Specials
ZZW	X	X	15	XX	XX	X	X	X	XXX

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

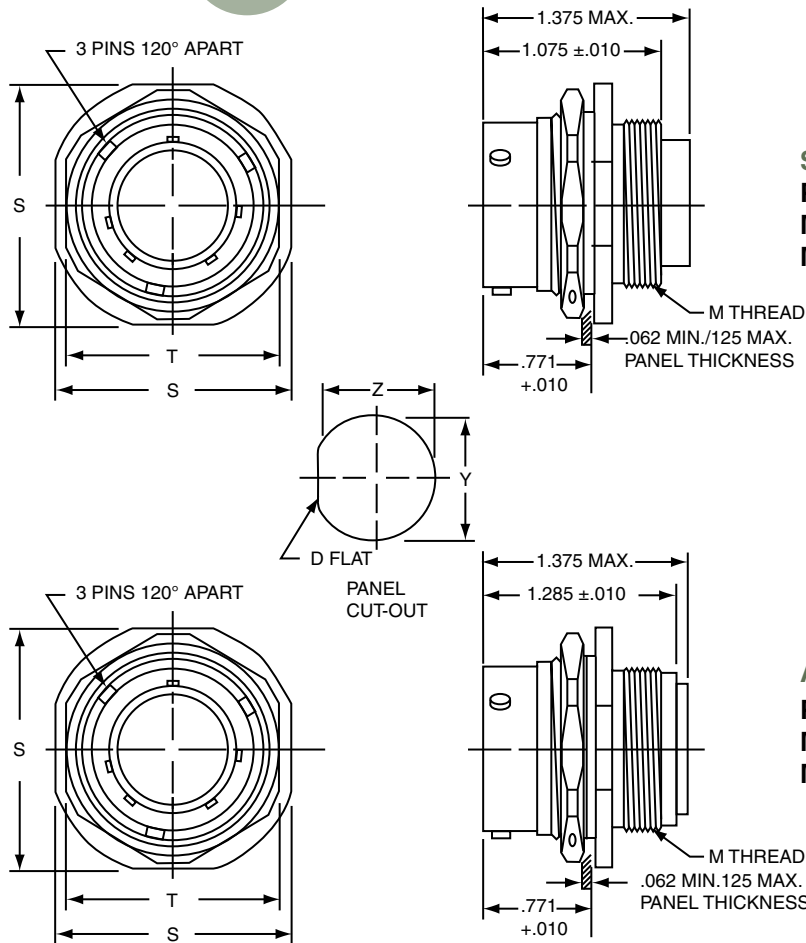
26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class 1

Back-
Shells

Options
Others



STAINLESS STEEL
Pyle ZZW-RX-15XX Series
MS24265EXXBXX
Military Class E

ALUMINUM
Pyle ZZW-XX-15XX Series
MS24265RXXBXX
Military Class R

Shell Size	M Cable Support Thread		Aluminum Connector Weight (lbs.) max including Contacts		S Flange Width ±.005	T Lock Nut Flats		Y Dia Mounting Hole	Z Flat Mounting Hole	Recom. min. Torque Jam Nut Lb. - inches
	Steel NS-2A	Alum. UNEF-2A Modified	Pin Insert	Socket Insert		Steel	Alum.			
08**	NA	.437-28	.029	.030	.979	NA	.812	.635	.605	33
10	.563-36	.562-24	.049	.050	1.104	.937	.937	.760	.730	36
12**	NA	.750-20	.069	.070	1.291	1.125	1.125	.947	.917	56
14	.803-36	.812-20	.087	.089	1.391	1.062	1.187	1.010	.980	65
16	.930-36	.937-20	.104	.106	1.561	1.187	1.312	1.135	1.105	69
18	1.036-36	1.062-18	.131	.133	1.641	1.312	1.437	1.260	1.225	81
20	1.161-36	1.187-18	.152	.157	1.766	1.562	NA	1.385	1.350	100
22	1.286-36	1.312-18	.181	.187	1.954	1.585	1.687	1.510	1.475	123
24	1.411-36	1.437-18	.208	.212	2.079	1.687	1.812	1.635	1.600	133
28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA designates not available. ** Not available in Stainless Steel. All dimensions for reference only.

Part

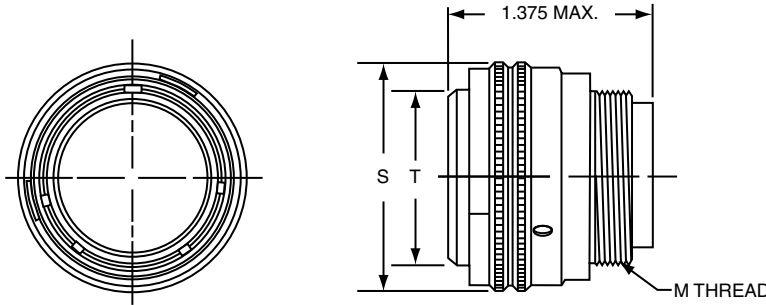
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Military

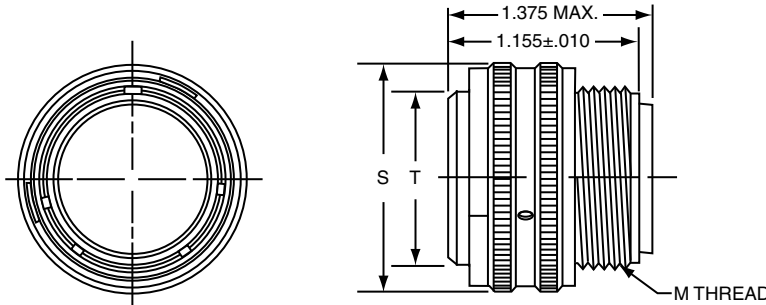
Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying
MS24266	E or R	XX	B	XX	X	X

Commercial

Shell Style	Service Class	Contacts & Accessories	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/Specials
ZZW	X	X	10	XX	XX	X	X	X	XXX



STAINLESS STEEL
Pyle ZZW-RX-10XX Series
MS24266EXXBXX
Military Class E



ALUMINUM
Pyle ZZW-XX-10XX Series
MS24266RXXBXX
Military Class R

Shell Size	M Cable Support Thread		Aluminum Connector Weight (lbs.) max including Contacts		S Dia Max. Coupling Nut		T Shell Dia. +.000 - .005
	Steel NS-2A	Alum. UNEF-2A Modified	Pin Insert	Socket Insert	Steel	Alum.	
08**	NA	.437-28	.030	.031	NA	.762	.424
10	.563-36	.562-24	.044	.045	.848	.904	.526
12	.733-36	.750-20	.063	.064	1.018	1.076	.696
14	.803-36	.812-20	.074	.076	1.087	1.122	.765
16	.930-36	.937-20	.091	.094	1.214	1.264	.892
18	1.036-36	1.062-18	.110	.112	1.320	1.373	.998
20	1.161-36	1.187-18	.133	.136	1.445	1.503	1.123
22	1.286-36	1.312-18	.154	.160	1.570	1.623	1.248
24	1.411-36	1.437-18	.184	.188	1.695	1.752	1.373
28	NA	NA	NA	NA	NA	NA	NA

NA designates not available. ** Not available in Stainless Steel. All dimensions for reference only.

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

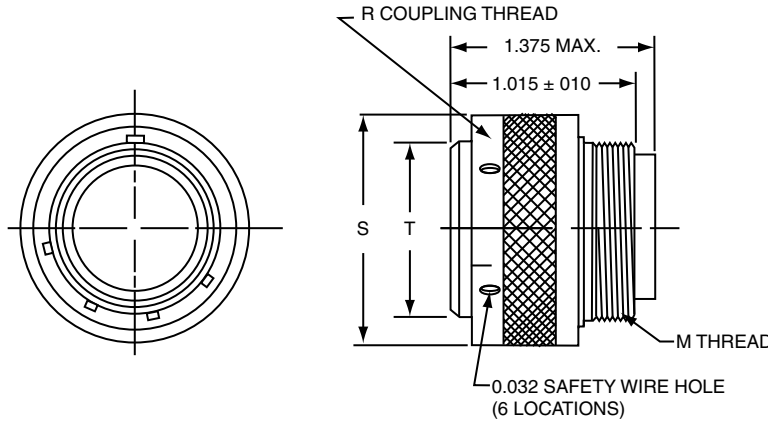
Pyle® (ZZY), MIL-DTL-26500 Ratchet Lock Plug, Non-Decoupling Plug



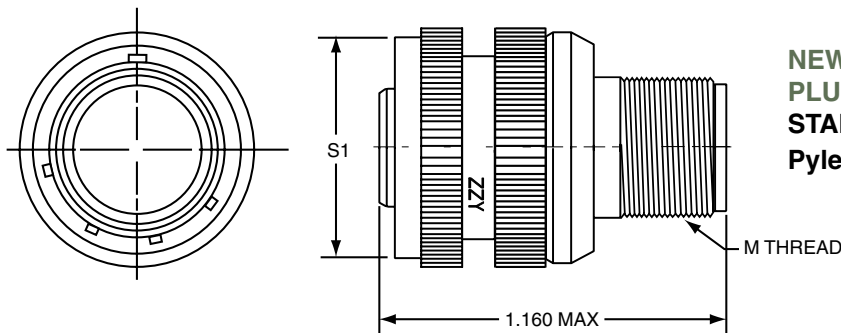
Part # To complete see how to order page 404.

Commercial

Shell Style	Service Class	Contacts & Accessories*	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/Specials
ZZY	X	X	12	XX	XX	X	X	X	XXX
ZZY	X	X	13	XX	XX	X	X	X	XXX



**RATCHET LOCK PLUG
STAINLESS STEEL/
ALUMINUM
Pyle ZZY-XX-12XX
Series**



**NEW NON-DECOUPLING
PLUG
STAINLESS STEEL
Pyle ZZY-RX-13XX Series**

Shell Size	M Thread Cable Support	R Thread Coupling	S Dia Coupling Nut	S1 Dia Coupling Nut	T Shell Dia.
08	.434-36	.562-24	.800	.820	.424
10	.563-36	.687-24	.934	.946	.526
12	.733-36	.875-20	1.114	1.088	.696
14	.803-36	.937-20	1.178	1.191	.765
16	.930-36	1.062-18	1.305	1.314	.892
18	1.036-36	1.312-18	1.411	1.420	.998
20	1.161-36	1.312-18	1.550	1.545	1.123
22	1.286-36	1.437-18	1.661	1.670	1.248
24	1.411-36	1.562-18	1.786	1.805	1.373
28	1.661-36	1.812-16	2.041	2.110	1.623

All dimensions for reference only.

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

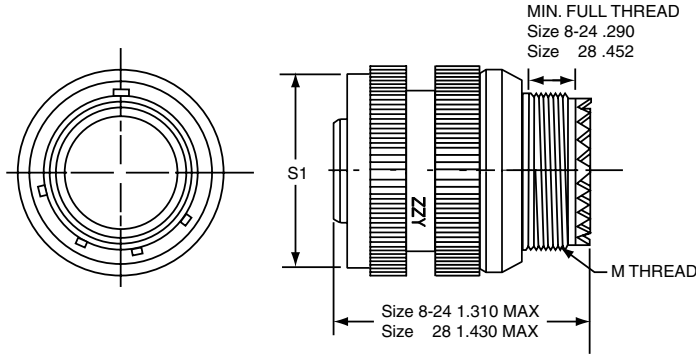
Back-Shells

Options Others

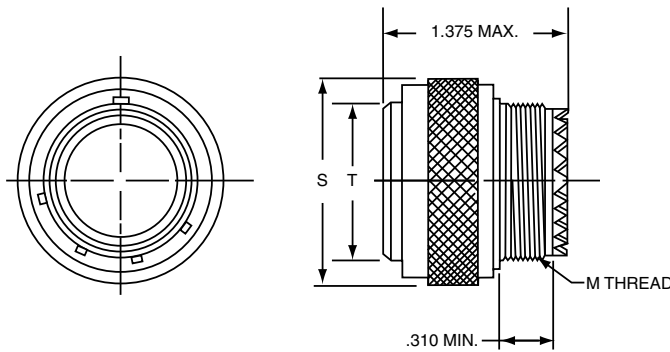
Part # To complete see how to order page 404.

Commercial

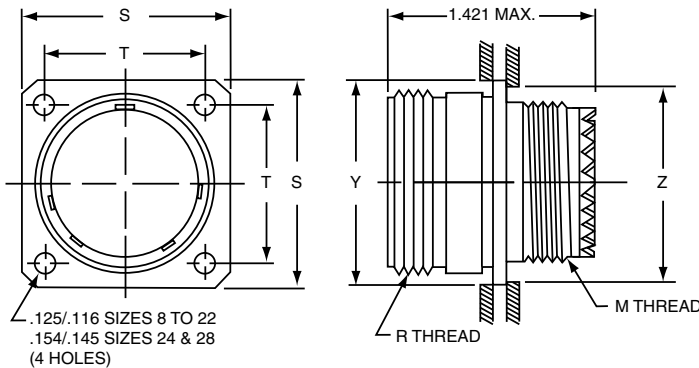
Shell Style	Service Class	Contacts & Accessories*	Shell Style	Shell Size	Insert Arrangement	Contact Type	Alternate Keying	Contact Plating	Deviations/Specials
ZZY	X	X	12 or 13	XX	XX	X	X	X	XXX



NEW NON-DECOUPLING PLUG MATING
Serrations per MS3155
STAINLESS STEEL/ALUMINUM
Pyle ZZY- XX-13XXX Series



RATCHET LOCK PLUG
With MIL-DTL-83723 Accessory
Serrations per MS3155
STAINLESS STEEL/ALUMINUM
Pyle ZZY- XX-12XXX Series







MATING SQUARE FLANGE MOUNTED, THREADED RECEPTACLE
STAINLESS STEEL/ALUMINUM
Pyle ZZY-XX-17XX Series

Shell Size	M Thread Cable Support	Plug				Receptacle			
		S Dia Max. Coupling Nut	T Shell Dia. +.000 -0.005	R Coupling Thread	S Flange Width ±.005	S1 Dia Coupling Nut	T Mounting Hole Centers ±.005	Y Back Mount Hole (min.)	Z Front Mount Hole (min.)
08	NA	NA	NA	NA	NA	.820	NA	NA	NA
10	.6250-24	.945	.526	.6875-24	.937	.946	.719	.706	.635
12	.7500-20	1.165	.696	.8750-20	1.031	1.088	.812	.885	.760
14	.8750-20	1.230	.765	.9375-20	1.125	1.191	.906	.947	.885
16	1.0000-20	1.353	.892	1.0625-18	1.250	1.314	.969	1.072	1.010
18	1.0625-18	1.468	.998	1.1875-18	1.343	1.420	1.062	1.197	1.072
20	1.1875-18	1.607	1.123	1.3125-18	1.437	1.545	1.156	1.322	1.197
22	1.3125-18	1.733	1.248	1.4375-18	1.562	1.670	1.250	1.447	1.322
24	1.4375-18	1.858	1.373	1.5625-18	1.703	1.805	1.375	1.572	1.448
28	1.7500-18	2.113	1.623	1.8120-16	2.000	2.110	1.562	1.822	1.760



NA designates not available. All dimensions for reference only.

38999

THREADED COUPLING, FIREWALL, PYLE FPK, FPL, FP5K, MS2761X-KXXTXX

Shell Style (Firewall stainless steel only)	Basic Performance Level	Hardware Description*	Class*	Basic Part Number**
 <p>Square Flange Mounted Receptacle Threaded Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Military Class K	MS27613-KXXTXX
			Pyle FPK or FPL or FP5K Series	FPK-17() or FPL-17() or FP5K-17()
 <p>Single Hole (D-Hole) Mounted Receptacle Threaded Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Military Class K	MS27614-KXXTXX
			Pyle FPK or FPL or FP5K Series	FPK-19() or FPL-19() or FP5K-19()
 <p>Straight Plug Threaded Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Military Class K	MS27615-KXXTXX
			Pyle FPK or FPL	FPK-11() or FPL-11()
 <p>Ratchet Locking Plug Threaded Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Meets Military Class K	Consult Amphenol
			Pyle FPK or FPL or FP5K Series	FPK-12() or FPL-12() or FP5K-12()

BAYONET COUPLING, FIREWALL, PYLE FYL, MS2761X-KXXBXX

Shell Style (Firewall stainless steel only)	Basic Performance Level	Hardware Description*	Class*	Basic Part Number**
 <p>Square Flange Mounted Receptacle Bayonet Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Military Class K	MS27613-KXXBXX
			Pyle FYL Series	FYL-17()
 <p>Single Hole (D-Hole) Mounted Receptacle Bayonet Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Military Class K	MS27614-KXXBXX
			Pyle FYL Series	FYL-19()
 <p>Straight Plug Bayonet Coupling</p>	High performance. Environmentally sealed. Resists high temperatures up to 238°C (460°F).	Class K Firewall Stainless Steel	Military Class K	MS27615-KXXBXX
			Pyle FYL Series	FYL-11()

* See how to order, page 414, for further description of hardware classes.

** See how to order, page 414, to complete part numbers.

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-Shell's

Options
Others

38999

Easy Steps to build a part number... Military

1. Shell Style	2. Service Class	3. Shell Size	4. Coupling Type	5. Insert Arrangement	6. Contact Type	7. Alternate Keying	8. Cable Support
MS27613	K	14	T	7	P	6	D

Step 1. Select a Shell Style

	Designates
MS27613	Square Flange Receptacle
MS27614	Single Hole Mounting Receptacle
MS27615	Straight Plug

Step 2. Select a Service Class

	Designates
K	Firewall - Stainless steel, passivated

Step 3. Select a Shell Size

12	14	16	18	22	24	28
----	----	----	----	----	----	----

Step 4. Select a Coupling Type

	Designates
T	Threaded
B	Bayonet

For Ratchet Lock Plug and New Non-Decoupling Consult Amphenol

Step 5. Select an Insert Arrangement on pages 399 & 400

First number represents Shell Size, second number is the Insert Arrangement.

Step 6. Select a Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

Step 7. Select an Alternate Keying Position

6, 7, 8, 9, Y (N for Normal) See page 400.

Step 8. Select a Cable Support

	Designates
D	Long Straight (MS27658)
P	Standard Straight (MS27657)
J	Right Angle (MS27659)

(Omit for normal)
See page 429

Easy Steps to build a part number... Commercial

1. Connector Type	2. Shell Style	3. Shell Size	4. Insert Arrangement	5. Contact Type	6. Less Contact/Contact Plating	7. Alternate Keying	8. Cable Support	9. Deviations/Specials
FPK	11	28	42	S	T	06	D	XXX

Step 1. Select a Shell Style

	Designates (Firewall, Class K Styles)
FPK	Threaded coupling, qualified to MIL-DTL-26500 and BACC63 Series
FPL	Threaded coupling, same as FPK, but used on Lockheed Aircraft
FP5K	Threaded Coupling, qualified for General Electric
FYL	Bayonet Coupling, qualified to MIL-DTL-26500

Step 2. Select a Shell Type

	Designates
11	Straight Plug
12	Ratchet Locking Threaded Plug
13	Improved Non-Decoupling Plug
17	Square Flange Receptacle
19	D-Hole Mounting Receptacle

Step 3. Select a Shell Size

12	14	16	18	22	24	28
----	----	----	----	----	----	----

Step 4. Select an Insert Arrangement on pages 399 & 400

First number represents Shell Size, second number is the Insert Arrangement.

Step 5. Select a Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

Step 6. Select a Contact/Contact Plating

	Designates
E	No Contacts
T	Rhodium
D	Gold Contacts

Step 7. Select an Alternate Keying Position

6, 7, 8, 9, Y (N for Normal) See page 400.

Step 8. Select a Cable Support

	Designates
D	Long Straight
P	Standard Straight
J	Right Angle

(Omit for normal)
See page 429

Step 9. Deviations/Specials

Please consult Amphenol for more information.

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

Easy Steps to build a part number... Per Boeing Company

1. Boeing Aircraft	2. Electrical Connector	3. Shell Type	4. Shell Size	5. Accessories	6. Insert Arrangement	7. Contact Type	8. Alternate Keying
BAC	C	63X	14	S	T	06	D

Step 1. Boeing Aircraft

	Designates
BAC	Boeing Aircraft Company

Step 2. Electrical Connector

	Designates
E	Electrical Connector

Step 3. Select a Shell Type

	Designates
63X	Plug, Threaded, Fire Barrier
63Y	Receptacle, Threaded Fire Barrier
63AE	Plug, Threaded, for use with No. 20 Wire Fire Barrier
63AF	Receptacle, Flange Mount, Threaded, Fire Barrier, For use with No. 20 Wire Fire Barrier.

Note: AE & AF require W11 variation on Pyle Number.

Step 4. Select a Shell Size

12	14	16	18	22	24	28
----	----	----	----	----	----	----

Step 5. Accessories

	Designates
C	To order with D Cable Clamp replace – with Letter C

Step 6. Select an Insert Arrangement on pages 399 & 400

First number represents Shell Size, second number is the Insert Arrangement.

Step 7. Select a Contact Type

	Designates
P	Pin Contacts
S	Socket Contacts

Step 8. Select an Alternate Keying Position

6, 7, 8, 9, Y (N for Normal) See page 400

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

Part #

To complete see how to order page 414.

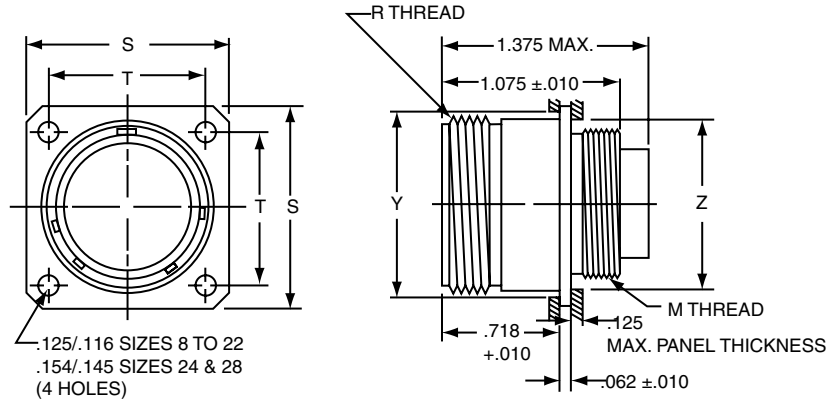
Military

Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying	Cable Support
MS27613	K	XX	B or T	XX	X	X	X

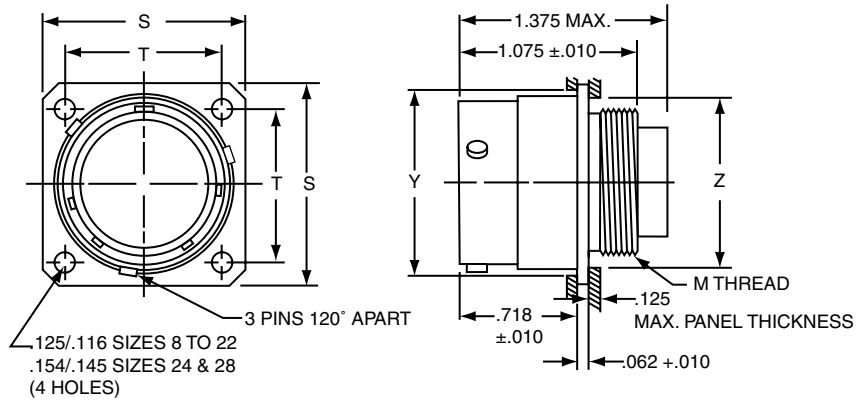
Commercial

Connector Type	Shell Style	Shell Size	Insert Arrangement	Contact Type	Contact Style	Alternate Keying	Cable Support	Deviations/Specials
FPK or FYL	17	X	XX	XX	X	X	X	XXX

THREADED COUPLING
Class K Stainless Steel
Pyle FPK-17XX Series
MS27613KXXTXX
Military Class K



BAYONET COUPLING
Class K Stainless Steel
Pyle FYL-17XX Series
MS27613KXXBXX
Military Class K



Shell Size	M Cable Support Thread	R Coupling Thread	S Flange Width ±.005	T Mounting Hole Centers ±.005	Y Back Mount Min. Hole	Z Front Mount Min. Hole
08	NA	NA	NA	NA	NA	NA
10	NA	NA	NA	NA	NA	NA
12**	.733-36	.875-20	1.031	.812	.913	.760
14	.803-36	.937-20	1.125	.906	.980	.822
16	.930-36	1.062-18	1.250	.969	1.107	.948
18	1.036-36	1.187-18	1.343	1.062	1.209	1.072
20	NA	NA	NA	NA	NA	NA
22	1.286-36	1.437-18	1.562	1.250	1.452	1.322
24**	1.411-36	1.562-18	1.703	1.375	1.577	1.422
28**	1.661-36	1.812-16	2.000	1.562	1.827	1.700

NA designates not available. ** Available in Threaded Coupling only. All dimensions for reference only.

MS27614, Pyle® FPK or FYL, Firewall Class K Single Hole (D-Hole) Mounted Receptacle



Threaded or Bayonet

Part

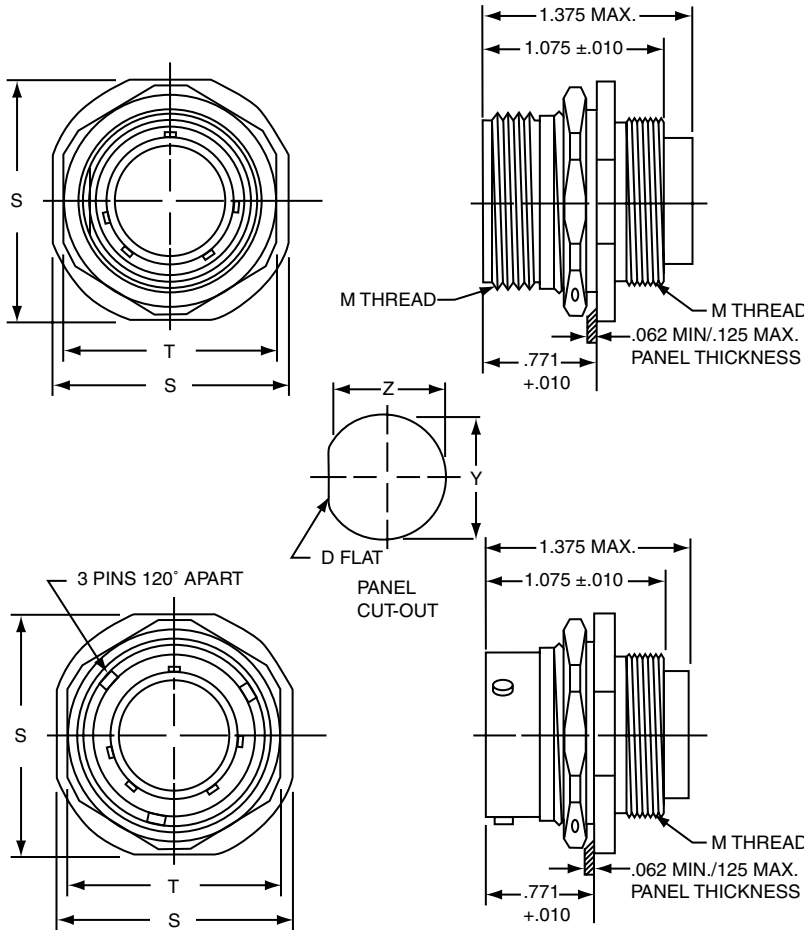
*To complete see how to order page 414.

Military

Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying	Cable Support
MS27614	K	XX	B or T	XX	X	X	X

Commercial

Connector Type	Shell Style	Shell Size	Insert Arrangement	Contact Type	Contact Style	Alternate Keying	Cable Support	Deviations/ Specials
FPK or FYL	19	X	XX	XX	X	X	X	XXX



THREADED COUPLING
Class K Stainless Steel
Pyle FPK-19XX Series
MS27614KXXTXX
Military Class K

BAYONET COUPLING
Class K Stainless Steel
Pyle FYL-19XX Series
MS27614KXXBXX
Military Class K

Shell Size	M Cable Support Thread	R Coupling Thread	S Flange Width	T Lock Nut Flats	Y Mounting Hole Dia.	Z Mounting Hole Flat	Recom. min. Torque Jam Nut
08	NA	NA	NA	NA	NA	NA	33
10	NA	NA	NA	NA	NA	NA	36
12**	.733-36	.875-20	1.291	1.215	.947	.917	56
14	.803-36	.937-20	1.391	1.062	1.010	.980	65
16	.930-36	1.062-18	1.516	1.187	1.135	1.105	69
18	1.036-36	1.187-18	1.614	1.312	1.260	1.225	81
20	NA	NA	NA	NA	NA	NA	100
22**	1.286-36	1.437-18	1.954	1.562	1.510	1.475	123
24	NA	NA	NA	NA	NA	NA	133
28	NA	NA	NA	NA	NA	NA	NA

NA designates not available. ** Available in Threaded Coupling only. All dimensions for reference only.

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-Shell's

Options Others

38999
III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB
HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

Part #

Military

To complete see how to order page 414.

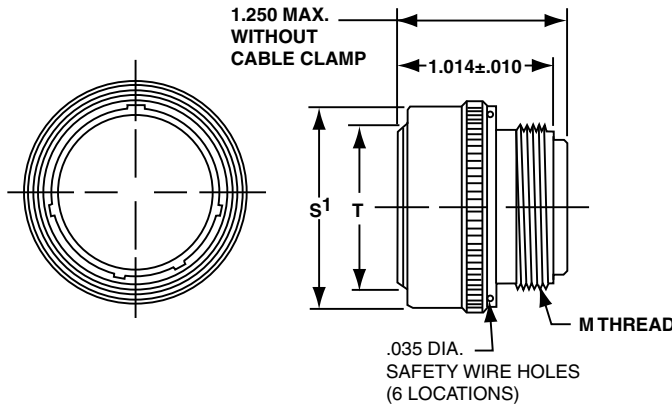
Shell Style	Service Class	Shell Size	Coupling Type	Insert Arrangement	Contact Type	Alternate Keying	Cable Support
MS27615	K	XX	B or S	XX	X	X	X

Commercial

Connector Type	Shell Style	Shell Size	Insert Arrangement	Contact Type	Contact Style	Alternate Keying	Cable Support	Deviations/ Specials
FPK or FYL	11 or 12	X	XX	XX	X	X	X	XXX

THREADED COUPLING

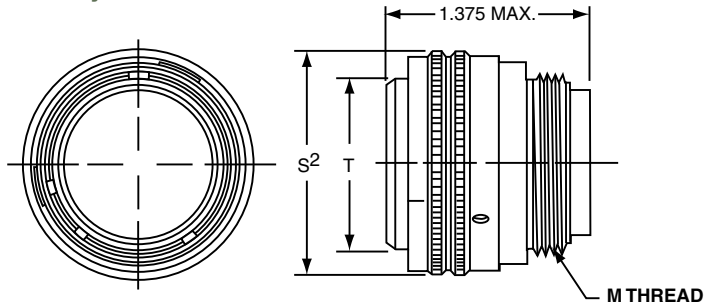
Class K Stainless Steel
Pyle FPK-11XX Series
MS27615KXXTXX
Military Class K



Shell Size	M Cable Support Thread	R Coupling Thread	Coupling Nut		T Shell Dia.
			S ¹ Dia.	S ² Dia.	
08	NA	NA	NA	NA	NA
10	NA	NA	NA	NA	NA
12	.733-36	.875-20	.984	1.018	.696
14	.803-36	.937-20	1.054	1.087	.765
16	.930-36	1.062-18	1.181	1.214	.892
18	1.036-36	1.187-18	1.287	1.320	.998
20	NA	NA	NA	NA	NA
22	1.286-36	1.437-18	1.537	1.570	1.248
24	1.411-36	1.562-18	1.662	1.695	1.373
28**	1.661-36	1.812-16	1.912	NA	1.623

** Available in Threaded Coupling only.

BAYONET COUPLING Class K Stainless Steel
Pyle FYL-11XX Series MS27615KXXBXX
Military Class K



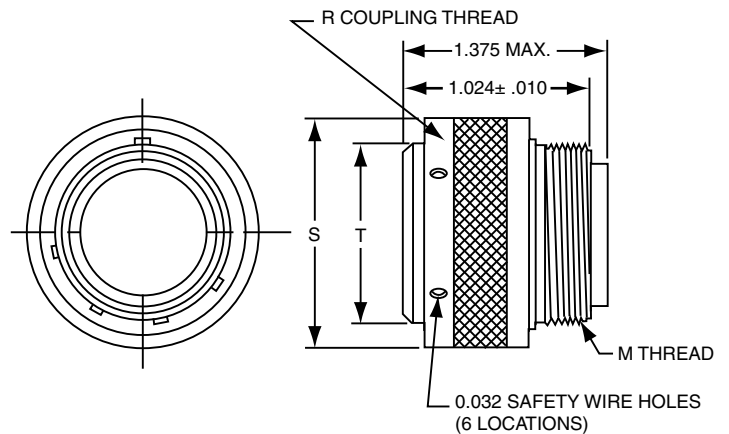
MS27615, Pyle® FPK, Firewall Class K

Ratchet Lock Plug, Threaded

RATCHET LOCK PLUG

Threaded Coupling
Class K Stainless Steel Pyle FPK-12XX Series
MS27615KXXSXX
Military Class K

Shell Size	M Cable Support Thread	R Coupling Thread	S Coupling Nut Dia.	T Shell Dia.
08	NA	NA	NA	NA
10	.563-36	.687-24	.931	.526
12	.733-36	.875-20	1.111	.696
14	.803-36	.937-20	1.175	.765
16	.930-36	1.062-18	1.302	.892
18	1.036-36	1.187-18	1.408	.998
20	NA	NA	NA	NA
22	1.286-36	1.437-18	1.658	1.248
24	1.411-36	1.562-18	1.783	1.373
28	1.661-36	1.812-16	2.038	1.623



NA designates not available.
All dimensions for reference only.

EMI Filter
Transient
26482
Matrix 2
83723 III
Matrix | Pyle
26500
Pyle
5015
Crimp Rear
Release
Matrix
22992
Class I
Back-
Shells
Options
Others

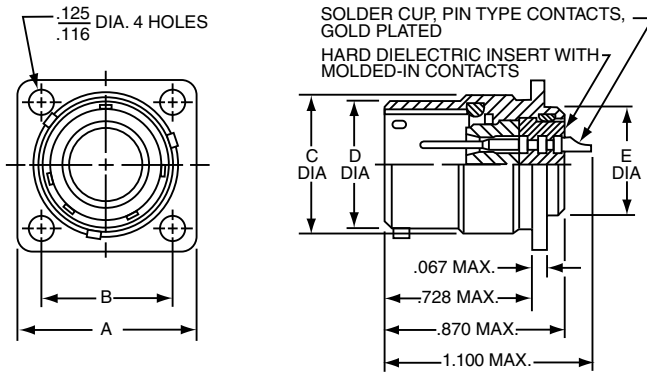
MIL-DTL-26500 Type – 48 Series

Receptacle Short Skirt

Receptacle Short Skirt – Aluminum – Bayonet Coupling

Shorter, lighter, and more economical than the standard MIL-DTL-26500 connector receptacles, the 48 Series receptacle short skirt comes in two versions: with standard flange and with reduced flange. Both versions are 1.100" long which is .275" shorter than the length of the standard MIL-DTL-26500 connector.

They have molded epoxy fiberglass inserts and can operate continuously up to 125°C (257°F), but otherwise they offer the same environmental sealing, from the panel out, as standard MIL-DTL-26500 connectors. They have bayonet coupling and mate with standard MIL-DTL-26500 plugs. The hard dielectric inserts, with resilient face seal and molded-in gold plated solder cup pin type contacts, are available in insert arrangements shown in the chart below.



AVAILABLE WITH PIN CONTACTS ONLY

Receptacle Short Skirt with Standard Flange

Insert Arrangement	Amphenol Part Number*	A ±.005	B ±.005	C Max.	D +.000 -.005	E Max.
10-5	48-7115-XX	.937	.719	.696	.659	.562
12-3	48-7116-XX	1.031	.812	.875	.829	.750
12-12	48-7117-XX	1.031	.812	.875	.829	.750
14-4	48-7118-XX	1.125	.906	.935	.898	.812
14-7	48-7119-XX	1.125	.906	.935	.898	.812
14-15	48-7120-XX	1.125	.906	.935	.898	.812
16-24	48-7121-XX	1.250	.969	1.062	1.025	.938
18-8	48-7122-XX	1.343	1.062	1.187	1.131	1.062
18-14	48-7123-XX	1.343	1.062	1.187	1.131	1.062
18-31	48-7124-XX	1.343	1.062	1.187	1.131	1.062
20-25	48-7251-XX	1.437	1.156	1.312	1.256	1.182
20-28	48-7175-XX	1.437	1.156	1.312	1.256	1.182
22-12	48-7125-XX	1.562	1.250	1.437	1.381	1.312
22-19	48-7126-XX	1.562	1.250	1.437	1.381	1.312
22-55	48-7127-XX	1.562	1.250	1.437	1.381	1.312

Receptacle Short Skirt with Reduced Flange

Insert Arrangement	Amphenol Part Number*	A Max.	B ±.005	C Max.	D +.000 -.005	E Max.
10-5	48-7132-XX	.870	.647	.696	.659	.562
12-3	48-7133-XX	.996	.773	.875	.829	.750
12-12	48-7134-XX	.996	.773	.875	.829	.750

* To complete part number: Replace XX with alternate keying positions (omit for normal position). See page 400.

For more information on other Amphenol®/Pyle® 48 Series products consult Amphenol Aerospace.



48 Series



Commercial Design with PCB Contacts:

- Intermateable with standard 26500 plugs
- Non-removable PC tail contacts
- Special shell geometries and clinch nut available
- Single piece insert
- Ideal for high volume cost sensitive applications

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