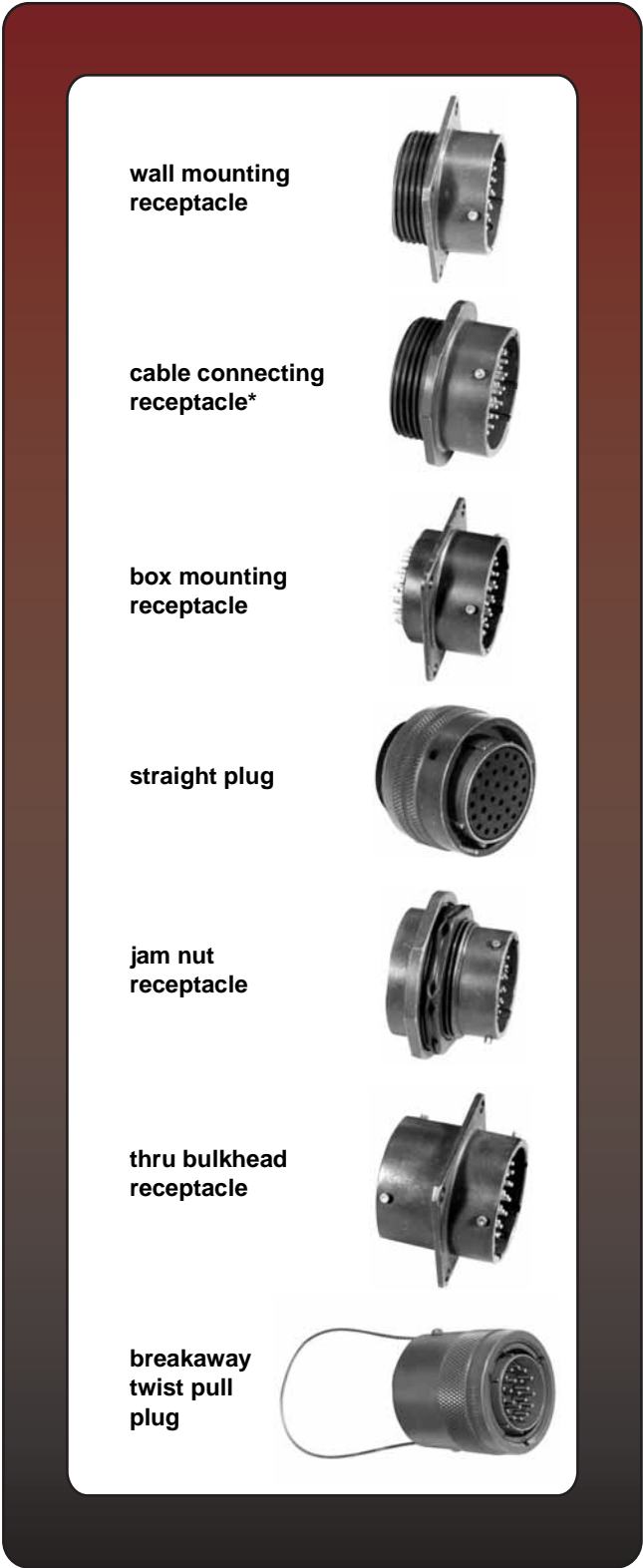


Amphenol® PT, SP, MS/PT

Proprietary/MIL-C-26482, Series 1

bayonet coupling and solder termination



Amphenol® solder contact miniature cylindrical connectors meet the most critical application needs. Design versatility combined with high reliability performance makes these series of Miniature Cylindrical Connectors ideal for environmental sealing or pressurized applications.

The MS/PT Series is qualified to MIL-C-26482, Series 1 and has all the outstanding design characteristics and quality of the PT Series. The SP Series is a modification of the PT, providing special shells with a wide mounting flange for back panel mounting. A corrosion resistant electrically conductive finish of cadmium plate with an olive drab chromate after-treatment is used on the PT and MS/PT. The SP is given a durable non-conductive hard anodic "Alumilite®" coating which provides abrasion protection and resistance to corrosion.

Shell components for these series are aluminum. The dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating with no chance of cross plugging. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical isolation of the contact in the insert.

Both pins and sockets are machined from a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design. A breakaway style plug is available in the PT solder series. Hermetics receptacles are available in PT and MS/PT solder series. Receptacles with printed circuit board contacts are also available.

PT Solder is UL recognized under file #E115497, Vol. 1, Sec. 5. The PT, SP and MS/PT Series are intermateable and intermountable with all existing Miniature Cylindrical Series connectors except for the threaded coupling PC Series.

Refer to pages 4-11 for insert arrangement availability.

PT, SP, MS/PT

CONTACT DATA/CONNECTOR RATINGS

| Contact Specifications | | | | | |
|------------------------|---|-------------------------------|---|-------------------|------------------------------------|
| Contact Size | Test Current | Maximum Millivolt Drop† | Solder Well Diameter | Solder Well Depth | |
| 20 | 7.5 | 55 | .046 ^{+0.004} _{-.000} | .125 | ^{+0.031} _{-.000} |
| 16 | 13.0 | 50 | .078 ^{+0.005} _{-.003} | .188 | ^{+0.031} _{-.000} |
| 12 | 23.0 | 42 | .116 ^{+0.004} _{-.002} | .188 | ^{+0.031} _{-.000} |
| Service Rating | | | | | |
| Service Rating | Recommended Operating AC Voltage at Sea Level | Test Voltage AC (RMS), 60 cps | | | |
| | | Sea Level | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I | 600 | 1,500 | 500 | 375 | 200 |
| II | 1,000 | 2,300 | 750 | 500 | 200 |

† Silver plated wire per MIL-C-26482
 * This connector style is sometimes referred to as a cable connecting "plug." It does, however, mate with a straight or 90 degree plug.

PT, SP Service Classes

PT and SP connectors are available in the service classes listed below. Each class, with the exception of hermetic, offers one or more means of terminating or supporting a cable or wire bundle. Class "W" is not available in the SP Series.

- "A" General duty; back shell is threaded for conduit attachment of MS3057 cable clamp
- "A" (SR) General duty, with strain relief clamp for cable or wire bundle support
- "C" Pressurized receptacle; less than 1 cu. in. per hour leakage at 30 psi over a temperature range of -65°F to +257°F
- "E" Environmental resistant connectors - supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires
- "E" (SR) Environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support
- "J" Same as "W" class except with strain relief
- "P" Translucent nylon boot for retaining customer-applied potting compounds; held in place by a threaded ring
- "P" (SR) Strain relief clamp suitable for retaining customer applied potting compounds, with provision for wire support
- "W" Compressing clamp and neoprene gland for moisture proofing multi-conductor jacketed cables. Telescoping sleeves (MS 3420A) can be used to adapt to cables smaller than minimum close-down.
- "H"* Hermetically sealed with compression glass inserts (see pages 22-25)

Style with printed circuit board contacts- see page 20.
Breakaway style - see page 26.

MS/PT Service Classes

The MS/PT Miniature connector is available in the following certified service classes:

- "E" Environmental resistant connectors - supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires
- "F" Grommet seal with strain relief clamp
- "P" Translucent nylon boot for retaining customer-applied potting compounds; held in place by a threaded ring

"A"
general duty



**"E" (SR),
MS / "F"**
strain relief



**"E",
MS / "E"**
open wire seal



**"P",
MS / "P"**
potting boot



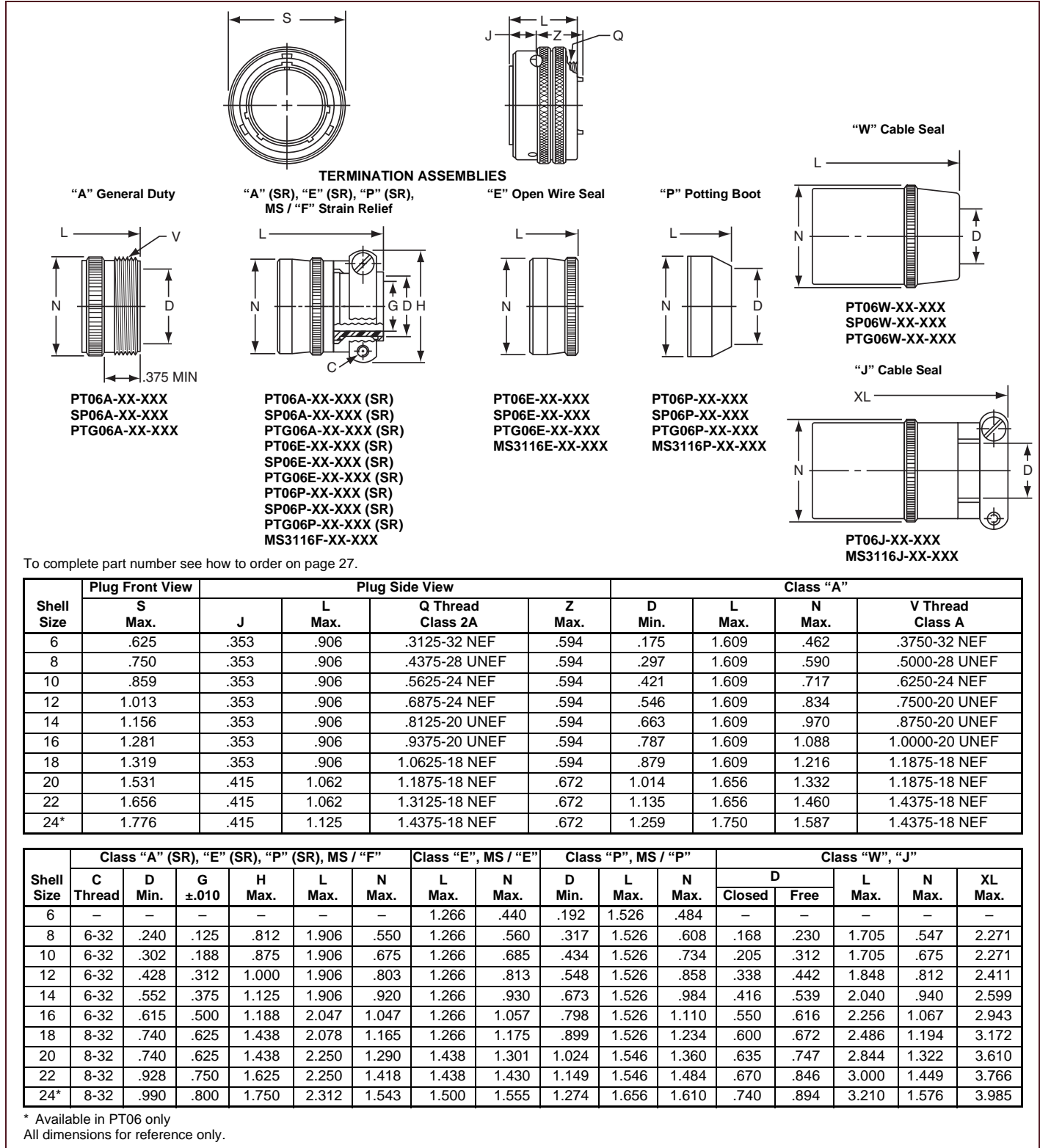
"W"
cable seal



PT06 (MS3116)

SP06

straight plug



PT-SE, SP-SE, MS/PT-SE

how to order

PT-SE, SP-SE

To more easily illustrate ordering procedure, part number PT00SE-20-41PW(SR) is shown as follows:

| PT | 00 | SE | - | 20 | - | 41 | P | W | (SR) |
|----|----|----|---|----|---|----|---|---|------|
| 1 | 2 | 3 | | 4 | | 5 | 6 | 7 | 8 |

See code below:

1. Connector Type

- "PT" designates standard olive drab, electrically conductive cadmium plated, bayonet lock connector with crimp contacts
- "MF" designates standard olive drab, electrically conductive cadmium plated, bayonet lock connector with dual mounting holes, and crimp contacts
- "SP" designates electrically non-conductive, hard anodic coated, bayonet lock connector with larger flange and mounting holes for back panel mounting, and crimp contacts
- "PTG" designates plug with grounding fingers

2. Shell Style

- "00" designates wall mounting receptacle
- "01" designates cable connecting receptacle*
- "02" designates box mounting receptacle
- "06" designates straight plug
- "07" designates jam nut receptacle
- "08" designates 90 degree plug

3. Service Classes

- "SE" designates environmental crimp
- "SP" designates potted type crimp

Both of the above are Amphenol proprietary versions of the MIL-C-26482, Series 1 crimp contact connector and offer 15 lbs. contact retention for size 20 contacts; 25 lbs. for size 16 contacts.

4. Shell Size

"20" designates shell size. Shell sizes 8 through 24 available.

5. Insert Arrangement

Refer to pages 4-11 for insert availability.

"20 - 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).

6. Contacts

- "P" designates pin contacts
- "S" designates socket contacts

7. Insert Rotation

Refer to page 7.

"W", "X", "Y", "Z" designate that insert is rotated in its shell from "normal" position. No letter required for normal (no rotation) position.

8. "SR" designates a strain relief clamp.

Indicate optional finishes as follows:

- (003) olive drab cadmium plate (standard on "PT")
- (005) anodic coating - Aluminite® (standard on "SP")
- (014) olive drab cadmium plate over nickel
- (023) electroless nickel
- (024) olive drab zinc cobalt plating
- (424) electroless nickel finish with strain relief
- (466) olive drab zinc cobalt plating with strain relief

OR

RoHS Compliant finish suffix as follow:

- (025) non-conductive black zinc cobalt plating
- (027) conductive black zinc cobalt plating
- (470) non-conductive black zinc cobalt plating with strain relief
- (476) conductive black zinc cobalt with strain relief



MS/PT-SE

MIL-C-26482, Series 1

To more easily illustrate ordering procedure, part number MS3120E20-41PW is shown as follows:

| MS | 312 | 0 | E | 20 | - | 41 | P | W |
|----|-----|---|---|----|---|----|---|---|
| 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 8 |

See code below:

1. "MS" designates Military Standard

2. Specification Number

"312" designates basic family for MIL-C-26482, Series 1 crimp type

3. Shell Style

- "0" designates wall mounting receptacle
- "1" designates cable connecting receptacle*
- "2" designates box mounting receptacle
- "4" designates jam nut receptacle
- "6" designates straight plug
- "7" designates box mounting receptacle with dual mounting holes
- "8" designates wall mounting receptacle with dual mounting holes

4. Service Class

- "E" designates environmental resisting connector
- "F" designates environmental resisting connector with strain relief
- "P" designates potted type with potting boot

5. Shell Size

"20" designates shell size. Shell sizes 8 through 24 available

6. Insert Arrangement

Refer to pages 4-11 for insert availability.

"20 - 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).

7. Contacts

- "P" designates pin contacts
- "S" designates socket contacts

8. Insert Rotation

Refer to page 7.

"W", "X", "Y", "Z" designate that insert is rotated in its shell from the "normal" position. No letter required for normal (no rotation) position.

* This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

For ordering Miniature Breakaway PT-SE Crimp connectors see pg. 38.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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