

RPX "Time Slot" Delayed Action Connectors Hazardous Locations

Cl. I, Div. 1 and 2, Group D*
Explosionproof
Raintight
Dimensions see page 1454

Applications:

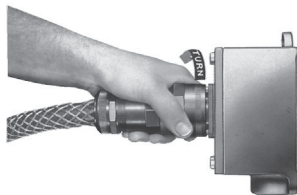
RPX "Time-Slot" delayed action connectors are used:

- In areas which are hazardous due to the presence of gasoline or gases or vapors of equivalent hazard (comparable to NEC Class I, Group D), where construction and test procedures are required to meet applicable sections of MIL-STD-810E
- For connection of devices ranging from simple lighting units, power tools and similar portables requiring only a power circuit to sophisticated control and instrumentation assemblies requiring disconnect

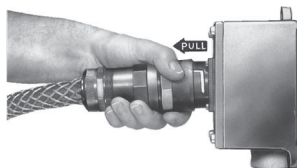
Features:

The same basic features, described in detail for RPC and RPE connectors, apply to RPX connectors as well and include the following:

- High-strength impact extruded aluminum shell parts
- "Tri-Disc" insert assemblies
- Contacts snap in after termination
- Positive polarization
- Interchangeability of inserts in each shell size
- Grounding contacts, where used, make first and break last
- The RPX "Time-Slot" delayed action feature prevents complete withdrawal of the plug in one continuous movement, eliminating the possibility of a circuit-breaking arc occurring in a hazardous area. Details of operation are shown in the illustrations below.



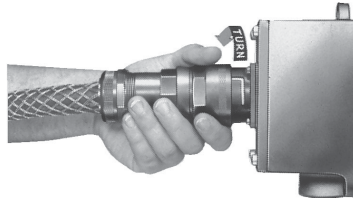
A. Turn plug clamping nut counter-clockwise 45° to unlock plug.



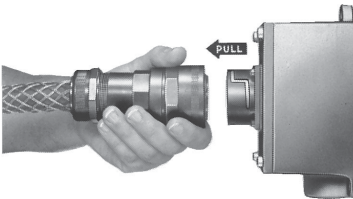
B. Pull to disengage pin and socket contacts, breaking circuit while contacts are still inside the receptacle. Any resulting electrical arc is quenched within the receptacle sockets.

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†For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.



C. Turn plug clamping nut an additional 45° counterclockwise to the release position, thereby effecting delayed action.



D. Disengage plug and receptacle.

Certifications and Complies:

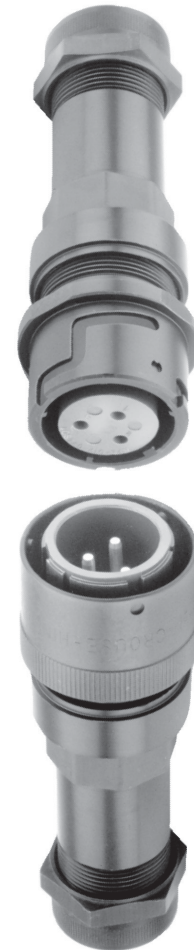
- RPX delayed action connectors have the same physical properties, characteristics and environmental capabilities of RPC and RPE connectors. For detailed information on these properties, refer to see page 1432.
- In addition to these properties, the "Time-Slot" delayed action feature permits disconnect under full rated load with no possibility of an exposed arc, thus meeting the stringent requirements of Military Specifications MIL-STD-810E

Standard Materials:

- Back boxes and adapters – *Feraloy*® iron alloy
- Plug, receptacle and cord connector shells – impact extruded aluminum
- Insulation – diallyl phthalate (DAP)
- Sealing wafer – silicone rubber
- Contacts – hard drawn copper

Standard Finishes:

- *Feraloy* – zinc electroplate and aluminum acrylic paint
- Impact extruded aluminum – hard coat anodized
- Diallyl phthalate – natural (blue)
- Silicone rubber – natural (grey)



Options:

The following options available for RPC and RPE connectors are also applicable to RPX connectors. For complete details see pages 1431-1432

- Alternate polarities – ungrounded and grounded connectors
- Crimp type contacts
- Wire mesh cord grip

Electrical Rating Ranges:

- 10, 20, 30 and 60 amperes
- 50† to 400 hertz
- 250, 480 and 600VAC
- See listings for specific ratings



8P**Special Purpose†; ARK-trol®
Electrical Connectors****RPX "Time-Slot" Delayed Action Connectors
With Solder Well Terminals‡, Hazardous Areas***Cl. I, Div. 1 & 2, Group D*
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Raintight
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| POWER | Circuit Description | Contact Size | Amps | Volts (VAC) | Shell Size | Hub Size (In.) | Square Flanged Receptacle, Dust Cap and Back Box Cat. # (For Surface Mounting)§ |
|----------------|---------------------|--------------|------|-------------|------------|----------------|---|
| 20 amps | Grounded | 4w, 5p | #12 | 20 | 480 | 017 | ¾ 1 RPX217 914 S09A EDSC271 RPX217 914 S09A EDSC371 |
| | Ungrounded | 5w, 5p | #12 | 20 | 480 | 017 | ¾ 1 RPX217 914 S08N EDSC271 RPX217 914 S08N EDSC371 |
| 30 amps | Grounded | 2w, 3p | #10 | 30 | 480 | 017 | ¾ 1 RPX217 914 S02A EDSC371 |
| | | 3w, 4p | #10 | 30 | 480 | 017 | ¾ 1 RPX217 914 S04A EDSC271 RPX217 914 S04A EDSC371 |
| | | 4w, 5p | #10 | 30 | 480 | 021 | ¾ 1 RPX221 914 S17A EDSC271 RPX221 914 S17A EDSC371 |
| | Ungrounded | 3w, 3p | #10 | 30 | 480 | 017 | ¾ 1 RPX217 914 S01N EDSC271 RPX217 914 S01N EDSC371 |
| | | 4w, 4p | #10 | 30 | 480 | 017 | ¾ 1 RPX217 914 S03N EDSC271 RPX217 914 S03N EDSC371 |
| | | 5w, 5p | #10 | 30 | 480 | 021 | ¾ 1 RPX221 914 S16N EDSC271 RPX221 914 S16N EDSC371 |

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RPX "Time-Slot" Delayed Action Connectors With Solder Well Terminals, Hazardous Areas*



| Cable Diameter Range | Cord Connector Cat. #■ | Plug Cat. #■ |
|---------------------------------|------------------------------------|------------------------------------|
| .250 to .625 .625 to .875 | RPX317 160 S09A RPX317 161 S09A | RPX117 150 P09A RPX117 151 P09A |
| .250 to .625 .625 to .875 | RPX317 160 S08N RPX317 161 S08N | RPX117 150 P08N RPX117 151 P08N |
| .250 to .625 .625 to .875 | RPX317 160 S02A RPX317 161 S02A | RPX117 150 P02A RPX117 151 P02A |
| .250 to .625 .625 to .875 | RPX317 160 S04A RPX317 161 S04A | RPX117 150 P04A RPX117 151 P04A |
| .625 to 1.000 1.000 to 1.187 | RPX321 161 S17A RPX321 395 S17A | RPX121 151 P17A RPX121 387 P17A |
| .250 to .625 .625 to .875 | RPX317 160 S01N RPX317 161 S01N | RPX117 150 P01N RPX117 151 P01N |
| .250 to .625 .625 to .875 | RPX317 160 S03N RPX317 161 S03N | RPX117 150 P03N RPX117 151 P03N |
| .625 to 1.000 1.000 to 1.187 | RPX321 161 S16N RPX321 395 S16N | RPX121 151 P16N RPX121 387 P16N |

† For alternate polarizations, see page 1431, "Options" section.
‡ Solder well terminals provided as standard. Crimp contacts are optionally available, add suffix T to catalog number. Example: RPX217-914-S09AT-EDSC271.
§ For square flanged receptacle *without* dust cap, change the middle three digits of the catalog number from 914 to 913. Example: RPX217-913-S09A-EDSC271.
■ For plugs and cord connectors:
Liquidtight/Conduit Adapter – To order with adapter, add letters "LT" to first section of catalog number. Example: RPXLT317-160-S09A.
Additional Cable Strain Relief Options –
• Stainless steel wire mesh grip – To order, add letter "K" to first section of catalog number. Example: RPXK317-160-S09A.

*RPX series are suitable for hazardous areas due to the presence of gasoline or other gases or vapors of equivalent hazard (comparable to N.E.C. Class I, Group D), where construction and test procedures are required to meet applicable sections of MIL-E-5272C and MIL-E-4970A.

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8P**Special Purpose; ARK-trol®
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With Solder Well Terminals, Hazardous Areas***Cl. I, Div. 1 & 2, Group D*
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Square Flanged Receptacle,
Dust Cap and Back Box
Cat. # (For Surface
Mounting)§

| POWER | Circuit Description | Contact Size | Amps | Volts (VAC) | Shell Size | Hub Size (In.) | |
|----------------|---------------------|--------------|------|-------------|------------|----------------|--|
| 60 Amps | | | | | | | |
| Grounded | 3w, 4p | #4 | 60 | 600 | 033 | 1¼ | RPX233 914 S08A CES42 |
| | 4w, 5p | #4 | 60 | 480 | 033 | 1¼ | RPX233 914 S09A CES42 |
| Ungrounded | 4w, 4p | #4 | 60 | 600 | 033 | 1¼ | RPX233 914 S05N CES42 |
| | 5w, 5p | #4 | 60 | 480 | 033 | 1¼ | RPX233 914 S06N CES42 |
| CONTROL | | | | | | | |
| | 6w, 7p | #12 | 20 | 480 | 017 | ¾ 1 | RPX217 914 S06A EDSC271 RPX217 914 S06A EDSC371 |
| | 7w, 7p | #12 | 20 | 480 | 017 | ¾ 1 | RPX217 914 S05N EDSC271 RPX217 914 S05N EDSC371 |
| | 18w, 19p | #12 | 20 | 250 | 021 | ¾ 1 | RPX221 914 S08A EDSC271 RPX221 914 S08A EDSC371 |
| | 19w, 19p | #12 | 20 | 250 | 021 | ¾ 1 | RPX221 914 S09N EDSC271 RPX221 914 S09N EDSC371 |
| | 38w, 39p | #12 | 20 | 250 | 033 | 1¼ | RPX233 914 S19A CES42 |
| | 39w, 39p | #12 | 20 | 250 | 033 | 1¼ | RPX233 914 S17N CES42 |

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RPX "Time-Slot" Delayed Action Connectors With Solder Well Terminals, Hazardous Areas*



| Cable Diameter Range | Cord Connector Cat. #■ | Plug Cat. #■ |
|----------------------|------------------------|-----------------|
| .875 to 1.375 | RPX333 163 S08A | RPX133 153 P08A |
| 1.375 to 1.625 | RPX333 396 S08A | RPX133 388 P08A |
| 1.625 to 1.875 | RPX333 397 S08A | RPX133 389 P08A |
| .875 to 1.375 | RPX333 163 S09A | RPX133 153 P09A |
| 1.375 to 1.625 | RPX333 396 S09A | RPX133 388 P09A |
| 1.625 to 1.875 | RPX333 397 S09A | RPX133 389 P09A |
| .875 to 1.375 | RPX333 163 S05N | RPX133 153 P05N |
| 1.375 to 1.625 | RPX333 396 S05N | RPX133 388 P05N |
| 1.625 to 1.875 | RPX333 397 S05N | RPX133 389 P05N |
| .875 to 1.375 | RPX333 163 S06N | RPX133 153 P06N |
| 1.375 to 1.625 | RPX333 396 S06N | RPX133 388 P06N |
| 1.625 to 1.875 | RPX333 397 S06N | RPX133 389 P06N |
| .250 to .625 | RPX317 160 S06A | RPX117 150 P06A |
| .625 to .875 | RPX317 161 S06A | RPX117 151 P06A |
| .250 to .625 | RPX317 160 S05N | RPX117 150 P05N |
| .625 to .875 | RPX317 161 S05N | RPX117 151 P05N |
| .625 to 1.000 | RPX321 161 S08A | RPX121 151 P08A |
| 1.000 to 1.187 | RPX321 395 S08A | RPX121 387 P08A |
| .625 to 1.000 | RPX321 161 S09N | RPX121 151 P09N |
| 1.000 to 1.187 | RPX321 395 S09N | RPX121 387 P09N |
| .875 to 1.375 | RPX333 163 S19A | RPX133 153 P19A |
| 1.375 to 1.625 | RPX333 396 S19A | RPX133 388 P19A |
| .875 to 1.375 | RPX333 163 S17N | RPX133 153 P17N |
| 1.375 to 1.625 | RPX333 396 S17N | RPX133 388 P17N |

† For alternate polarizations, see page 1431, "Options" section.
‡ Solder well terminals provided as standard. Crimp contacts are optionally available, add suffix T to catalog number. Example: RPX217-914-S09AT-EDSC271.

§ For square flanged receptacle *without* dust cap, change the middle three digits of the catalog number from 914 to 913. Example: RPX217-913-S09A-EDSC271.

■ For plugs and cord connectors:

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To order with adapter, add letters "LT" to first section of catalog number. Example: RPXLT317-160-S09A.

Additional Cable Strain Relief Options –

• Stainless steel wire mesh grip – To order, add letter "K" to first section of catalog number. Example: RPXK317-160-S09A.

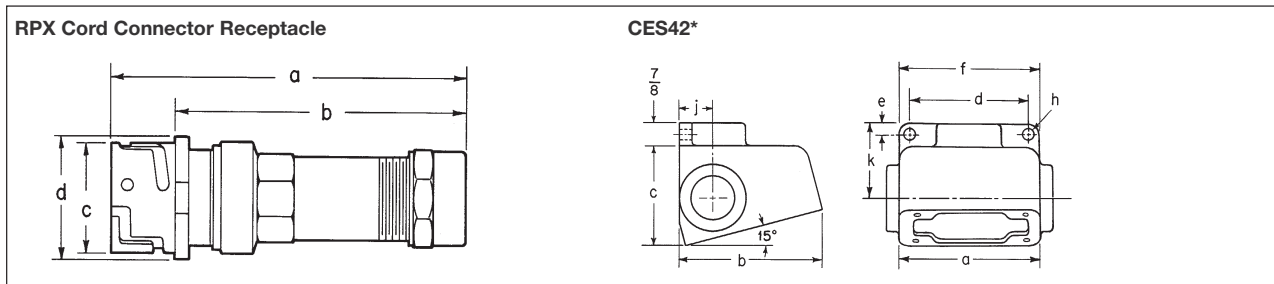
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8P ARK-trol® Electrical Connectors

RPX "Time-Slot" Delayed Action Connectors

Dimensions In Inches:

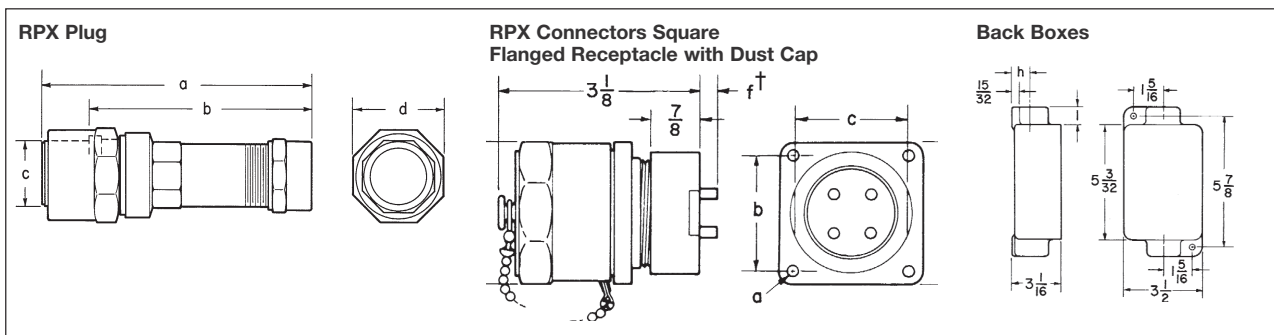


Cord Connector Receptacle

| Shell Type and Size | a† | b‡ | c | d |
|---------------------|-------|-------|-------|-------|
| 317 | 5.033 | 4.116 | 1.560 | 1.812 |
| 321 | 5.090 | 4.173 | 2.000 | 2.300 |
| 333 | 6.093 | 5.176 | 2.625 | 3.140 |

CES42*

| Size | a | b | c | d | e | f | h dia. | j | k |
|------|-----|-----|--------|-------|------|-----|--------|-----|-------|
| 1/4 | 5/4 | 5/4 | 3 1/16 | 4 3/8 | 7/16 | 5/4 | 7/16 | 1/8 | 2 7/8 |



RPX Plug

| Shell Type and Size | a† | b‡ | c | d |
|---------------------|-------|-------|-------|-------|
| 117 | 5.033 | 4.133 | 1.270 | 1.921 |
| 121 | 5.090 | 4.190 | 1.675 | 2.468 |
| 133 | 6.093 | 5.193 | 2.295 | 3.140 |

RPX Connectors Square Flanged Receptacle with Dust Cap

| Shell Type and Size | a | b | c | d |
|---------------------|------|-------|-------|-------|
| 217 | .190 | 1.375 | 1.317 | 1.750 |
| 221 | .190 | 1.750 | 1.692 | 2.250 |
| 233 | .214 | 2.375 | 2.317 | 2.875 |

Back Boxes

| Cat. # | h | l |
|---------|-----|---------|
| EDSC271 | 7/8 | 1 13/16 |
| EDSC371 | 1 | 1 15/16 |

†Dimension "f"; 0.1875 for #16, #12 and #10 contacts 0.250 for #4 contacts.

‡These dimensions are approximate and vary with cable size.

*CES42 takes 60 ampere receptacle housings.