



(6.35 mm) .250"

**PES, PET SERIES**

# 40 A HIGH POWER HEADER & SOCKET

PES Mates with:  
**PET**

PET Mates with:  
**PES, PE5S**

## SPECIFICATIONS

For complete specifications see [www.samtec.com?PET](http://www.samtec.com?PET) or [www.samtec.com?PES](http://www.samtec.com?PES)

### Insulator Material:

Black LCP

### Terminal Material:

Copper Alloy

### Plating:

Sn or Au over 50 μ" (1.27 μm) Ni

### Operating Temp Range:

-55 °C to +105 °C with Tin  
-55 °C to +125 °C with Gold

### Voltage Rating:

725 VAC/1025 VDC

### Wiping Distance:

(4.14 mm) .163" Max

### Standard Creepage:

(3.66 mm) .144"

### Standard Clearance:

(3.31 mm) .130"

### RoHS Compliant:

Yes

### Lead-Free Solderable:

Yes

PET/PES	
PINS	CURRENT RATING (PER CONTACT)
1	58.7 A
2	48.5 A
3	41.1 A
4	38.0 A
8	29.4 A

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## ALSO AVAILABLE (MOQ Required)

- Locking Clip (Manual placement required)
- No Latch ears
- Other platings

## OTHER SOLUTIONS

- Combination Signal/Power. See PESC or PETC Series.

**Note:**  
Some sizes, styles and options are non-standard, non-returnable.

PES	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	TAIL OPTION	OTHER OPTION
	<b>-02, -04, -06, -08</b>	<b>-01</b> = Use with (1.60 mm) .062" Thick PCB  <b>-02</b> = Use with (3.18 mm) .125" Thick PCB	<b>-L</b> = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail  <b>-T</b> = Matte Tin	<b>-VT</b> = Vertical  <b>-RA</b> = Right-angle (Screw Down option required)	<b>-SD</b> = Screw Down (Right-angle only)

LEAD STYLE	A
-01	(2.35) .093
-02	(3.95) .156

**RUGGEDIZED BY SAMTEC**

• Screw down (right-angle)

**CREEPAGE AND CLEARANCE**

Selectively loading contacts achieves customer specific creepage and clearance requirements.  
Contact [asp@samtec.com](mailto:asp@samtec.com)

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Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.  
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.