



PES, PET SERIES

(6.35 mm) .250"

# 40 A HIGH POWER HEADER & SOCKET

PES Mates with:  
PET

PET Mates with:  
PES, PE55

## 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)



## ALSO AVAILABLE (MOQ Required)

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

## OTHER SOLUTIONS

- Combination Signal/Power. See PES 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						
	-02, -04, -06, -08	-01 = Use with (1.60 mm) .062" Thick PCB -02 = Use with (3.18 mm) .125" Thick PCB	-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail -T = Matte Tin	-VT = Vertical -RA = Right-angle (Screw Down option required)	-SD = Screw Down (Right-angle only)						
		<table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>(2.35) .093</td> </tr> <tr> <td>-02</td> <td>(3.95) .156</td> </tr> </tbody> </table>	LEAD STYLE	A	-01	(2.35) .093	-02	(3.95) .156			
LEAD STYLE	A										
-01	(2.35) .093										
-02	(3.95) .156										
					<p><b>CREEPAGE AND CLEARANCE</b></p> <p>Selectively loading contacts achieves customer specific creepage and clearance requirements. Contact <a href="mailto:asp@samtec.com">asp@samtec.com</a></p>						
					<p><b>RUGGEDIZED BY SAMTEC</b></p> <p>• Screw down (right-angle)</p>						

PET	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	TAIL OPTION	OTHER OPTION						
	-02, -04, -06, -08	-01 = Use with (1.60 mm) .062" Thick PCB -02 = Use with (3.18 mm) .125" Thick PCB	-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail -T = Matte Tin	-VT = Vertical -RA = Right-angle (Screw Down option required)	-SD = Screw Down (Right-angle only)						
		<table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>(2.35) .093</td> </tr> <tr> <td>-02</td> <td>(3.95) .156</td> </tr> </tbody> </table>	LEAD STYLE	A	-01	(2.35) .093	-02	(3.95) .156			
LEAD STYLE	A										
-01	(2.35) .093										
-02	(3.95) .156										

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.