



(6.35 mm) .250"

PES, PET SERIES

# 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)

  

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)

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)

  

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.