

# ConnTAK50 Connector System >

The versatile 1.80mm-pitch ConnTAK50 Connector System employs the Arbeitskreis (AK) interface and offers both single- and dual-row versions, and 2 configurations in a small package to support design flexibility and space-constrained applications

## FEATURES AND ADVANTAGES

### Uses the Arbeitskreis (AK) connector interface

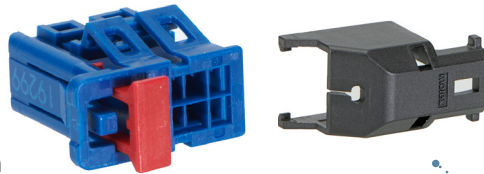
Inter-matable with existing competitor AK connectors. Delivers a standard interface commonly used in the automotive industry

### 1.80mm pitch AK interface

Offers the smallest automotive grade connector system. Eases space constraints

### Tape and reel packaging. Tube also available

Offers flexibility for tier 1 or module device makers. Enables pick-and-place automation



### Dual-row connectors with 4 to 22 circuits

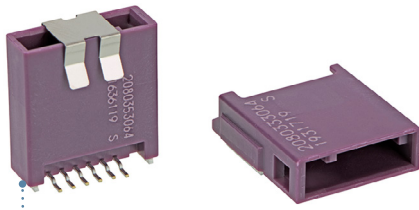
Meet the specific needs of each application

### Dual-row receptacles feature both a side latch and connector position assurance (CPA) mechanism

Provides a reliable connection

### Wire dress cover available

Offers greater flexibility in wire routing. Accommodates all wire & bundle sizes



### 4 polarization and color-keying options

Aids assembly. Prevents mis-mating



### Right-angle and vertical headers available

Offers design flexibility

### Two styles of connector position assurance (CPA) features available for dual-row connectors

Ensures proper mating. Large-style CPA improves ergonomics and lateral stability. Small-style CPA offers space savings and a smaller connector (designed but not tooled at this time)

### Pick-and-place vertical SMT header available

Enables automated assembly

### Patented CPA release mechanism

Meets strict mating force requirements. Eases assembly. Reduces operator fatigue

## TAK50 TERMINAL

### Compatible with AK blade and cavity

Enables mating with existing competitor connectors

### Meets LV 214, GMW 3191 and USCAR specifications

Appropriate for European, Chinese and US automotive markets



### 2-piece beam design

Delivers electrical reliability. Withstands vibration

### Superior electrical and mechanical performance

Provides a robust connection and reliable power transmission

# ConnTAK50 Connector System >

## MARKETS AND APPLICATIONS

### Automotive

- In-vehicle Switches
- Seat/Mirror Control
- Camera Modules
- Battery Management Systems (BMSs)
- Lighting
- Bluetooth
- HVAC

### Electric vehicle (EV) application

