



## Introducing

### TE Connectivity (TE) High Speed Data Portfolio

(compliant to the USCAR-30 interface)

The TE High Speed Data portfolio is designed for high speed connections to be used in automotive infotainment applications. It meets the requirements of USB 2.0.

The Mini B is a 90  $\Omega$  system that operates at a temperature range of -40°C / +85°C (+105°C optional).

The system supports USB as well as LVDS data rates and is compatible to the robust automotive environment.



**AUTOMOTIVE**

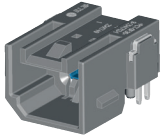
# Introducing: TE High Speed Data Portfolio (USCAR-30)

## Introduction

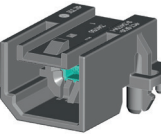
### BENEFITS

- Ability to bundle up to 3 headers
  - Less component placement during assembly
  - Less PCB footprint area
- Can be reflow soldered up to 260°C
  - No additional soldering process required
- Mini B is protected from damage during mating and unmating
- Compatible with industry accepted assemblies
- Vehicle routing flexibility for aggressive packaging environments
- Mating plugs are easy to distinguish based on coloring

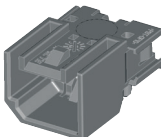
PN 2141749



PN 2141750



PN 2208426



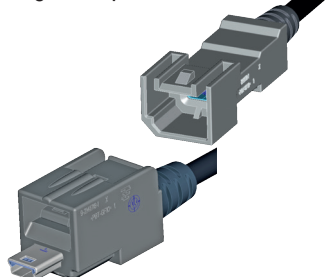
PN 2208408

PN 2141751



Plug – Plug: PN 1557331

Plug – Receptacle: PN 1557332



### APPLICATIONS

- Displays
- Gateway modules
- USB connections
- Rear Seat Display
- Rear Seat Entertainment

### MECHANICAL

- Vibration Class V1 per USCAR-2
- Temperature Class 1 (Class 2 with separate cable) per USCAR-2
- Sealing Class S1 per USCAR-2
- Ergonomic Class 2 per USCAR-25
- Power wire range from AWG 28 to AWG 20
- Signal wire range from AWG 28 to AWG 26

### ELECTRICAL

- Impedance: 90 Ω ± 15%
- Operating Current: 0,5 A
- Operating Voltage: 5 V
- Maximum LLCr: 50 mΩ
- Allowed Voltage Drop: 250 mV

### MATERIALS

#### Headers

- Plastic part: PCT-GF30 (reflow capable)
- Mini B: Shell Phos.Bronze / CuSn4
- Insulator PAG6T/PA9T / Contacts Phos.Bronze

#### Inline Housings

- Plastic Part: PBT-GF10
- Mini B: Shell Phos.Bronze
- Insulator LCP-GF30 / Contacts CuSn4
- Overmold: PVC

### STANDARDS AND SPECIFICATIONS

- USCAR-30 / USCAR-2
- USB 2.0 (Mini B addendum)
- GMW3191 (only extracts)
- TE Product Specification: 108-94286
- TE Application Specification: 114-94128

### PRODUCT OFFERING

- 180 Degree THT PCB header
  - optimized for wave soldering
- 90 Degree THT PCB header
  - optimized for wave soldering
- 90 Degree SMT PCB header – Single
- 180 Degree PCB Header – Ganged
- 90 Degree PCB Header – Ganged
  - optimized for Pick & Place
- 90 Degree PCB Header – Ganged
  - optimized for Tape & Reel
- Plug-to-Plug cable assemblies
- Plug-to-Receptacle cable assemblies

### PRODUCT DIMENSIONS

#### Typical Header Dimensions

Width 16 mm (interface)  
Height 13.1 mm (interface)  
Length 23.7 mm

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