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

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 unmuting
- Compatible with industry accepted assemblies
- Vehicle routing flexibility for aggressive packaging environments
- Mating plugs are easy to distinguish based on coloring

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: \(90 \, \Omega \pm 15\%\)
- 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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