

LATCHING USB CONNECTOR

INTRODUCTION

To support the increasingly wide-spread use of the USB standard in Industrial applications, TE Connectivity has added industrial ruggedized connectors to its USB connector family. The Latching USB connectors and cable assemblies add 40 N of retention force to a High Speed (USB 2.0) interconnection and permit attaching or detaching peripherals without power down or reboot.

KEY FEATURES

- 40 N retention force
- Intermateable with existing USB type A receptacles
- Integrated locking mechanism
- USB 2.0 Compliant
- Plug and Play capability
- Available both as a plug kit for customer made cable assemblies as well as pre-made standard length assemblies.

APPLICATIONS

- Human Machine Interface (HMI) - Panels
- Machine Vision
- Printers
- Barcode Readers
- Mass Storage

OPERATING EFFICIENCY

The locking mechanism of the latching USB connectors makes industrial applications more reliable: 40 N of retention force make an accidental unplugging less likely to happen. Once the receptacle is designed in, the cable assemblies make it very convenient to use the added benefit of the locking function.

MATERIALS

- Housing - High temperature thermoplastic, UL94V-0, black
- Contact - Brass, gold plated on contact area, nickel underplated
- Shield - Steel, nickel plated, copper underplated

PRODUCT INFORMATION

Description	Part Numbers
Industrial USB Plug Conn Kit	2013798-1
Industrial USB Rec Assy R/A 1Row	1903814-1
Industrial USB Rec Assy R/A 2Row	1903815-1
Cable Assy Ind. USB Type A (1m)	2083112-2
Cable Assy Ind. USB Type A (2m)	2083112-3
Cable Assy Ind. USB Type A (3m)	2083112-4
Cable Assy Ind. USB Type A (5m)	2083112-5



ELECTRICAL

- Voltage Rating - 30VAC (rms)
- Data Rate - 480Mbps/s

MECHANICAL

- IP 20 protection level
- Operating Temp. -55 °C to +85 °C

STANDARDS AND SPECIFICATIONS

- USB 2.0 compliant
- Product specifications 108-78523
- Application specifications 114-5434

CIRCULAR SEALED USB CONNECTOR

INTRODUCTION

To support the increasingly wide-spread use of the USB standard industrial applications, TE Connectivity has added industrial ruggedized connectors to its USB connector family. The Circular Sealed USB connector provides the popular High Speed USB standard for outdoor factory-floor and harsh environment applications where regular USB connectors do not offer the required level of ruggedness.

KEY FEATURES

- IP 67 sealing performance
- 1/4 turn bayonet coupling ring
- Standard A plug and standard B plug
- Through-panel mating receptacles
- Pre-made standard length cable assemblies
- Available in both plastic and metal shell configurations
- USB 2.0 compliant

APPLICATIONS

- Human Machine Interface (HMI) - Panels
- Machine Vision
- Printers
- Barcode Readers
- Mass Storage

OPERATING EFFICIENCY

Circular sealed USB connectors make the popular USB interface available for usecases with tough environmental requirements. The panel-mount receptacle, for instance, offers a fast ruggedized up-load port that avoids downtime for opening a control cabinet.

MATERIALS

- Housing (Plastic) – High temperature thermoplastic, UL94V-0, black
- Housing (Metal) – Chrome Plated Zinc Die Cast Gasket, UL94 HB, UV Resistant Gasket Material
- Contact – Brass, gold plated on contact area, nickel underplated
- Shield – Steel, nickel plated, copper underplated.

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ELECTRICAL

- Voltage Rating — 30VAC (rms)
- Data Rate – 480Mbps/s

MECHANICAL

- IP 67 protection level
- Operating Temp. -40 °C to +85 °C

STANDARDS AND SPECIFICATIONS

- USB 2.0 compliant
- Product specifications 108-2318
- Application specifications 114-13211

PRODUCT INFORMATION

Description	Part Numbers
Plug Kit, USB Series A	1954637-1
Plug Kit, USB Series B	1954640-1
Recpt Kit, Series A to Series A	1954643-1
Industrial USB Rec Assy R/A 2Row	1903815-1
Recpt Kit, Series B to A	2058365-1