

FOR MORE INFORMATION

Technical Support

Internet:	www.te.com/ADM
USA:	+1 (800) 522-6752
Canada:	+1 (905) 470-4425
Mexico:	+52 (0) 55-1106-0814
C. America:	+52 (0) 55-1106-0814
South America:	+55 (0) 11-2103-6000
Germany:	+49 (0) 6251-133-1999
Great Britain:	+44 (0) 8706-080208
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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Data Bus Components (MIL-STD-1553B) for Space Applications



Space-Grade MIL-STD-1553B Data Bus Components



Space-Grade MIL-STD-1553B Data Bus Components



KEY FEATURES

High packaging density and weight savings

Design flexibility

Complete line of space-qualified MIL-STD-1553B components

Low outgassing levels that meet NASA requirements

Rugged construction

Factory-built harnesses eliminate unnecessary splices and connectors, reducing the cost and increasing the reliability of the networks

Factory-built harnesses are pre-tested to customer requirements and are ready for installation

DESCRIPTION

A complete system of interconnection hardware for MIL-STD-1553B networks

Complete collection of components include:

- A wide selection of couplers such as micros, boxes, flat-packs, and ultra-lightweight versions
- Data bus cables
- Triax connectors and contacts with strain relief
- One-piece triaxial contacts for MIL-C-38999 connectors
- Bus and stub terminators
- Low outgassing components for use in space
- Cable identification sleeves
- Harness design software using HarnWare software
- Flexible cable splices

APPLICATIONS

Used in MIL-STD-1553B multiplexing space applications

Flight control for:

- Launch Vehicles
- Satellites
- Human Spacecraft
- Cargo Spacecraft
- Deep Space Probes

SPECIFICATION

Meets TE Specification D-6022 for space-grade data bus components.

Note:
TE is a major supplier of space data bus products to a number of space equipment OEMs.

COMPONENTS

In-Line Couplers and Terminators

- Tin/nickel-plated metallic parts
- Baked silicone rubber components
- Low outgassing tubing
- D-500-94XX-X-XXX series for couplers
- D-500-9463-XXX series for terminators



Threaded Triaxial Connectors

- Tin/nickel-plated metallic parts
- Baked silicone rubber components
- Low outgassing tubing
- DK-621-0911P
- DK-621-0911S
- DK-621-0912P
- DK-621-0912S



Bayonet Triaxial Connectors

- Tin/nickel-plated metallic parts
- Baked silicone rubber components
- Low outgassing tubing

- “A” Polarization
- DK-621-0933-1P or S
- DK-621-0934-1P or S

- “B” Polarization
- DK-621-0935-2P or S
- DK-621-0936-2P or S



- “C” Polarization
- DK-621-0937-3P or S
- DK-621-0938-3P or S

- “D” Polarization
- DK-621-0939-4P or S
- DK-621-0940-4P or S

Splice Kits

- Flux-coated, solder-impregnated copper shield braid encased in a transparent heat-shrinkable insulation sleeve provides a controlled soldering process, encapsulation, inspectability, strain relief and insulation

- D-150-9708-5



Standard Space Cables

- Single- or double-braid shield—with optional mumetal layer for EMP hardening—and radiation cross-linked ETFE insulation and jacket for low outgassing

Optimized Single Shield

- S16 = 7724S1664-9
- S1L = 7724S1LL4 LF*

EMP Hardened

- S86 = 7724S8664-9
- S8L = 7724S8LL4-9 LF

Optimized Double Shield

- S36 = 7724S3664-9
- S3L = 7724S3LL4 LF

*LF = Low Fluoride



Demateable Terminators

- Available with and without lanyard

- DK-621-0937
- DK-621-0938
- DK-621-0939
- DK-621-0940

- DK-621-0933
- DK-621-0934
- DK-621-0935
- DK-621-0936



TE also manufactures complete harnesses to customer specifications and print.