

In-Line Space-Qualified Data Bus Couplers



Data Sheet

North Hills offers a full space-qualified line of In-Line MIL-STD-1553 data bus couplers. The use of North Hills factory built harnesses with our data bus couplers eliminates unnecessary splices and connectors reducing the cost and increasing network reliability.

Full traceability of all materials and soldering to NASA 8739.3 or NHB5300.4 is provided. Our facilities are certified to ISO 9001:2000, MIL-Q-9858 and MIL-I-45208. Materials used in the data bus coupler and components meet the requirements for use in space and comply with NASA outgassing requirements in specification SP-R-0022A.

Coupler designs used on various harnesses have been qualified on many commercial and military rockets and satellites including, but not limited to:

Atlas V	Messenger Satellite
Delta IV	New Horizons Satellite
Int'l Space Station	Space Shuttle

Contact the factory about additional platforms.

Features:

- Extended temperature range (-94°C to +135°C)
- Single or Multi-Stub configurations
- Outgassing levels that meet NASA requirements



North Hills In-Line Space Qualified Data Bus Coupler.

Benefits:

- Can be supplied as complete, fully tested harnesses
- Light weight and rugged construction
- Ability to customize with user defined cable and connectors

Specifications

Materials (unless otherwise specified)	
Parameter	Value
Cable	MIL-STD-1553 Data Bus, Space Quality. P/N NDBC-TFE-22-2SJ-75 per NASA spec. SSQ21655
Case Material	C.R.S. per ASTM-A-620
Case Finish	Tin plate per MIL-T-10727 Type II, 5-7% Lead content.
Environmental Sleeve	Per MIL-1-23053/8

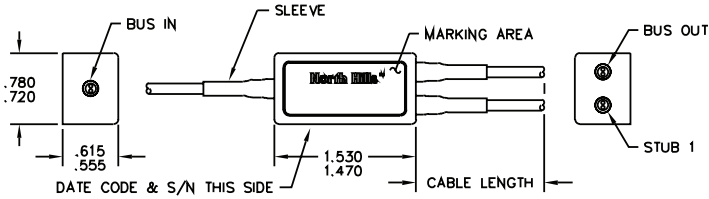


For more information: www.BTTC-Beta.com/ILSpace

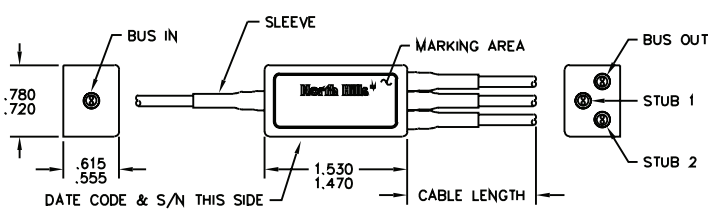
Technical Drawings

Mechanical Drawing

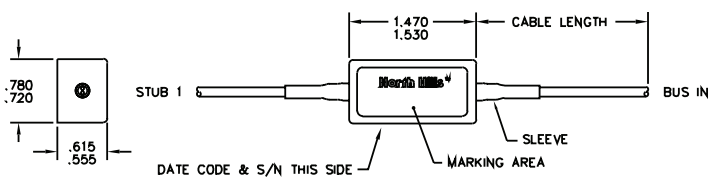
NH13835



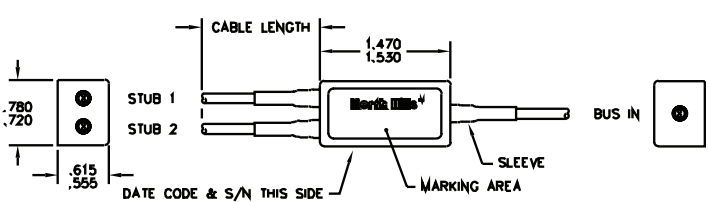
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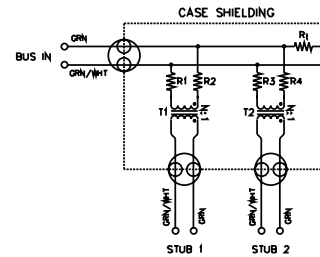
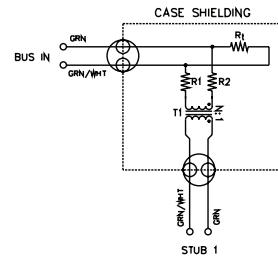
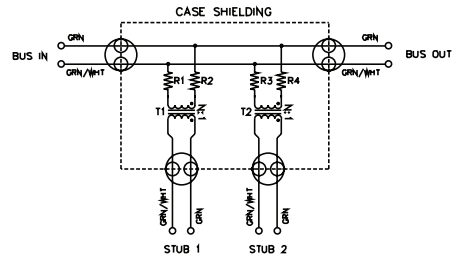
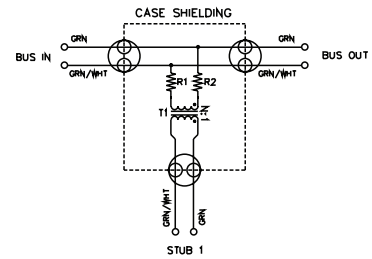
NH13866



NH13867



Simplified Schematic



Ordering Information

Model #	SSQ Part #	Description
NH13835	NDBC 3A1A	1 stub, unterminated
NH13836	NDBC 4A2A	2 stub, unterminated
NH13866	NDBC 2C1B	1 stub, terminated
NH13867	NDBC 3C2B	2 stub, terminated

Three stub and greater in-line space-qualified couplers are available. Please contact the factory for more details.

Full environmental test reports are available and may minimize the amount of testing required for your application. North Hills makes its engineering staff and computer aided design facilities available to solve specific design problems for your application. Our well-equipped model making facility is capable of rapid prototype fabrication as well as production of limited volume custom components to close specification. To discuss your application and which design would be best, or for more detailed information, please contact us.



For ordering assistance and technical support,

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