

Surprenant DATA BUS

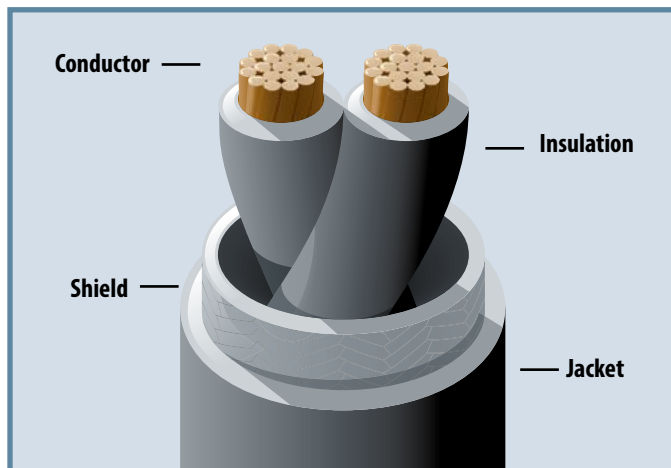
Twinaxial Cable

Overall Shielded Precision Pair

Reference: MIL-STD-1553B

APPLICATION

These shielded twinaxial cable constructions generally conform to the electrical transmission requirements of MIL-STD-1553B for Command/Response Multiplex Databus. Avionics, military vehicle, and C3I systems are the most common applications for this military protocol standard. These databus cables are available with a variety of insulation, jacketing and shielding configurations, providing the system designer with a broad choice of alternatives.



CONDUCTOR

Silver plated alloy or tin plated copper, stranding as listed in the table below.

INSULATION

Extruded layer of irradiated cross-linked ETFE. (other types available)

JACKET

Cross-linked ETFE jacket is applied over a shield. (other types available)

Part Number	USAF/ Equivalent	Conductor		Shield	Impedance Ω	Capacitance pf/ft Max.	Nom. Jacket Diameter		Weight	
		AWG (Stranding)	Material				Inch	mm	lbs/kft	kg/km
SDBS-26SABS-70	10606	26 19/38	SA	38AWG TC 90%	70 +/-5	30	.111	2.82	12.1	18.0
SDBS-24SABS-70	10595	24 19/36		38AWG TC 90%	70 +/-5	30	.128	3.25	15.7	23.4
SDBS-24SASO-77	8421526-2 /10612	24 19/36		Single Optimized	77 +/-5	30	.130	3.30	15.9	23.7
SDBS-24SABS-77	8421526-1 /10602	24 19/36		38AWG TC 90%	77 +/-5	30	.137	3.48	15.7	23.4
SDBS-24SADO-77	8421527-1 /10613	24 19/36		Dual Optimized	77 +/-5	30	.147	3.73	24.9	37.1
SDBS-24SAEH-77	8421528-1 /10614	24 19/36		EMP Hardened	77 +/-5	30	.161	4.09	29.0	43.2
SDBS-22TCO-77	8421526-3 /10605	22 19/34	TC	Single Optimized	77 +/-5	30	.165	4.19	22.7	33.8
SDBS-22TCDO-77	-	22 19/34		Dual Optimized	77 +/-5	30	.185	4.70	32.5	48.4
SDBS-22TCEH-77	-	22 19/34		EMP Hardened	77 +/-5	30	.190	4.83	37.4	55.7
SDBS-24SAEH-77	T-10971	24 19/36	SA	EMP Hardened	77 +/-5	30	.159	4.04	29.0	43.2
SDBS-24SASO-77	T-10970	24 19/36		Single Optimized	77 +/-5	30	.129	3.28	15.9	23.7

The above part numbers represent the more popular constructions. However, other designs are available upon request. All products are manufactured to meet RoHS compliance. For exceptions, please contact our sales department.

