

GAIN FLEXIBILITY, SAVE WEIGHT

Ruggedized, lightweight
cables for a variety of
aircraft applications



UNCOMPROMISING PERFORMANCE FOR YOUR AIRCRAFT

Collins Aerospace delivers proven products that interface with a variety of applications on board the aircraft. With designs targeting key areas of low loss, lightweight and flexibility, our cables will exceed your performance requirements.

KEY FEATURES AND BENEFITS

With integrated, single cable designs, our specialty cables eliminate the need to purchase multiple components or route separate cables. Dedicated engineers and product managers investigate and incorporate current and future technology for cable designs, meeting the demands and needs of the aviation industry as well as complex avionics systems.

- Designed and manufactured to industry standards
- Fully certified and tested
- Contact Sales Department for restriction of Hazardous Substances (RoHS) Directive compliant
- Cost and labor savings through use of composite and multi-conductor cables
- Eliminates need to fabricate repetitive wire harnesses
- Improved reliability and durability of standard wire bundles when routed inside the aircraft
- Use of braids and/or foil shield offers improved shielding effectiveness and protection against interference from noise sources on the aircraft
- Overall jacket of multiple wires provides protection from wire chafing
- Custom cable designs available to meet unique and special applications

SYSTEMS SUPPORTED

- Ethernet
- Voice
- Data networking
- HDTV
- Video
- Fiber optic
- Quadrax
- Twinax
- USB
- Electronic flight bag
- ADS-B
- ARINC 429
- ARINC 453
- Triax
- In-flight entertainment

Ethernet cables

Ethernet cables are high-performance, lightweight cables used for Local Area Network (LAN) applications and data transmission aboard aircraft. As the aviation market continues to see an increased need for in-flight entertainment, we've developed an entire line of Ethernet cables to support those needs. Offering CAT 5, CAT 5e, CAT 6 and CAT 7, we have a cable option to suit any application and meet market requirements. Additionally, we provide prefabricated cable assemblies.



D10004-664 – ETHERNET CAT 5

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	0.7	Center conductor	SPC
10 MHz	2.2	Dielectric material	Foam FEP
100 MHz	6.4	Shield #1	Aluminum polyester foil
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	3.16	Outer diameter	0.20"
Min. bend radius	1.15"	Conductor	4
Operating temperature		Outer jacket material	FEP
-55 to 150° C		Connector	RJ45-0824-LGOD

D100-082402T-01 – ETHERNET CAT 5

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	–	Center conductor	TC
10 MHz	2.5	Dielectric material	Foam FEP
100 MHz	–	Shield #1	Aluminum mylar wrap
Mechanical properties		Shield #2	TC round braid
Weight (lbs./100 ft.)	6.0	Outer diameter	0.32"
Min. bend radius	3.5"	Conductor	8
Operating temperature		Outer jacket material	FEP
-55 to 150° C		Connector	RJ45-0824-LGOD

ABBREVIATIONS

BC	Bare copper	PFA	Perfluoroalkoxy
BCCA	Bare copper clad aluminum	PTFE	Polytetrafluoroethylene
ETFE	Ethylene tetrafluoroethylene	PVC	Polyvinylchloride
EPTFE	Expanded polytetrafluoroethylene	SC	Silver coated copper
FEP	Fluorinated ethylene propylene	SPC	Silver plated copper
GIFP	Gas injected foam polyethylene	SPHSCA	Silver plated high strength copper alloy
GIP	Gas injected polyethylene	TC	Tin coated copper
OD	Outer diameter	VSWR	Voltage standing wave ratio
		PE	Polyethylene (low smoke, zero halogen, aircraft grade)

Ethernet cables

**D100-0424-100 – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	SPHSCA
10 MHz	2.4	Dielectric material	EPTFE
100 MHz	8.0	Shield #1	Aluminum polyester tape
Mechanical properties		Shield #2	TC round braid
Weight (lbs./100 ft.)	2.35	Outer diameter	0.160"
Min. bend radius	0.75"	Conductor	4
Operating temperature		Outer jacket material	FEP
-55 to 150° C		Connector	RJ45-0824-LGOD

**D100-0426-100 – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	SPHSCA
10 MHz	3.2	Dielectric material	EPTFE composite
100 MHz	10.5	Shield #1	Aluminum mylar foil
Mechanical properties		Shield #2	TC round braid
Weight (lbs./1000 ft.)	18	Outer diameter	0.140"
Min. bend radius	.9"	Conductor	4
Operating temperature		Outer jacket material	FEP
-55 to 150° C		Connector	RJ45-0824-LGOD

**D100-0824-100 – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	0.74	Center conductor	SPC
10 MHz	2.34	Dielectric material	FEP
100 MHz	7.89	Shield #1	Aluminum/Nomex foil
Mechanical properties		Shield #2	SPC braid
Weight (lbs./1000 ft.)	3.3	Outer diameter	.28"
Min. bend radius	1.4"	Conductor	4
Operating temperature		Outer jacket material	FEP
-50° to 150° C		Connector	RJ45-0824-LGOD

**D100-0824-101 – ETHERNET CAT 5**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	0.74	Center conductor	SPC
10 MHz	2.34	Dielectric material	FEP
100 MHz	7.89	Shield #1	Aluminum/Nomex foil
Mechanical properties		Shield #2	SPC braid
Weight (lbs./1000 ft.)	4.4	Outer diameter	0.24"
Min. bend radius	1.2"	Conductor	8
Operating temperature		Outer jacket material	FEP
-50 to 150° C		Connector	RJ45-0824-LGOD

**D100-0824-101T* – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	0.74	Center conductor	SPC
10 MHz	2.34	Dielectric material	FEP
100 MHz	7.89	Shield #1	Aluminum Polyimide foil
Mechanical properties		Shield #2	SPC
Weight (lbs./100 ft.)	5.0	Outer diameter	0.24"
Min. bend radius	1.5"	Conductor	8
Operating temperature		Outer jacket material	ETFE
-55 to 200° C		Connector	RJ45-0824-LGOD

**D10002-664WJ* – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	SPC
10 MHz	2.0	Dielectric material	Foam FEP
100 MHz	6.8	Shield #1	Aluminum polyester tape
Mechanical properties		Shield #2	TC round braid
Weight (lbs./100 ft.)	1.9	Outer diameter	0.16"
Min. bend radius	0.8"	Conductor	2
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Connector	**

**D100-0222-764* – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	SPC
10 MHz	1.3	Dielectric material	PTFE
100 MHz	5.0	Shield #1	-
Mechanical properties		Shield #2	-
Weight (lbs./100 ft.)	1.2	Outer diameter	0.12"
Min. bend radius	0.5"	Conductor	2
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Connector	**

**D100-0224-764* – ETHERNET CAT 5E**

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	SPC
10 MHz	1.6	Dielectric material	PTFE
100 MHz	6.0	Shield #1	-
Mechanical properties		Shield #2	-
Weight (lbs./100 ft.)	0.9	Outer diameter	0.10"
Min. bend radius	0.5"	Conductor	2
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Connector	**

Ethernet cables



D100-0222-200* – ETHERNET CAT 5E

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	SPC
10 MHz	-	Dielectric material	EPTFE
100 MHz	6.5	Shield #1	Aluminum polyester foil tape
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	2.4	Outer diameter	0.19"
Min. bend radius	1.5"	Conductor	2
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Connector	**



D100-0826-FLX* – ETHERNET CAT 6

Attenuation (dB/100 ft. nominal)		Cable construction	
100 MHz	10	Center conductor	SPC alloy
Mechanical properties		Dielectric material	PTFE
Weight (lbs./100 ft.)	2.8	Shield #1	PTFE tape wrap
Min. bend radius	0.5"	Shield #2	SPC braid
Operating temperature		Outer diameter	0.20"
-50 to 200° C		Conductor	8
		Outer jacket material	PTFE
		Connector	RJ45-0824-LGOD



D100-0824-006* – ETHERNET CAT 6

Attenuation (dB/100 ft. nominal)		Operating temperature	
1 MHz	0.07	-55 to +150° C	
10 MHz	2.4	Cable construction	
100 MHz	7.3	Center conductor	SPC Alloy
200 MHz	10.9	Dielectric material	Extruded FEP
250 MHz	12.2	Shield #1	Aluminum mylar foil
500 MHz	17.0	Shield #2	SPC braid
Mechanical properties		Outer diameter	0.27"
Weight (lbs./100 ft.)	5.0	Conductor	8
Min. bend radius	1.4"	Outer jacket material	ETFE
		Connector	RJ45-0824-LGOD



D100-0826-006 – ETHERNET CAT 6

Attenuation (dB/100 ft. nominal)		Cable construction	
100 MHz	10	Center conductor	SPC alloy
Mechanical properties		Dielectric material	Extruded fluoropolymer
Weight (lbs./100 ft.)	3.5	Shield #1	Aluminum mylar foil
Min. bend radius	1.1"	Shield #2	SPC braid
Operating temperature		Outer diameter	0.22"
-50 to 150° C		Conductor	8
		Outer jacket material	Fluoropolymer
		Connector	RJ45-0824-LGOD

All values nominal.



D100-0424-007*** – ETHERNET CAT 7

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	1.0	Center conductor	SPC
10 MHz	2.6	Dielectric material	Foamed FEP
100 MHz	8.1	Shield #1	Aluminum mylar foil
Mechanical properties		Shield #2	Aluminum/polyester/ aluminum
Weight (lbs./100 ft.)	4.2	Shield #3	SPC Braid
Min. bend radius	1.25"	Outer diameter	0.27"
Operating temperature		Conductor	4
-50 to 150° C		Outer jacket material	FEP



D100-0824-007*** – ETHERNET CAT 7

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	1.0	Center conductor	SPC
10 MHz	2.6	Dielectric material	Extruded fluoropolymer
100 MHz	8.1	Shield #1	Aluminum/polyimide foil
Mechanical properties		Shield #2	Aluminum/polyimide/ aluminum
Weight (lbs./100 ft.)	6.0	Shield #3	SPC braid
Min. bend radius	1.5"	Outer diameter	0.29"
Operating temperature		Conductor	8
-50 to 200° C		Outer jacket material	FEP



D100-0424-0220*** – POWER OVER ETHERNET

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	1.0	Center conductor	SPC alloy
10 MHz	2.6	Dielectric material	Extruded PTFE
100 MHz	8.1	Shield #1	Aluminum mylar foil
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	6.0	Shield #3	-
Min. bend radius	1.5"	Outer diameter	0.31"
Operating temperature		Conductor	4
-55 to 150° C		Outer jacket material	ETFE

ETHERNET CABLE CONNECTORS

RJ45 jack

- RJ45-0824FJ – Thermoplastic housing with copper alloy shield

RJ45 8 conductor modular plug

- RJ45-0824FP – Clear polycarbonate housing with tin plated brass shield
- RJ45-664 – Polycarbonate housing with phosphor bronze shield
- RJ45-0824-LGOD – Polycarbonate housing with phosphor bronze shield



*Laser markable jacket **Typically terminated into D-subminiature connectors ***Connector is too large for RJ45 line – use Nexans Tera Connector T7P4-B01-1

Entertainment cables

We provide an assortment of cables to support entertainment systems that include digital audio, high-definition (HD) video, standard video, high-definition multimedia interfaces and data streaming. All of the entertainment from home, fit for aircraft environments.



DV100-1526-102 – HIGH-DEFINITION MULTIMEDIA AIRCRAFT GRADE CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
300 MHz	15.0	Center conductor	Silver plated copper
1.0 GHz	28.0	Dielectric material	Fluoropolymer
1.2 GHz	32.0	Shield #1	Aluminum polyester tape
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	7.0	Outer diameter	0.34"
Min. bend radius	3.5"	Conductor	15
Operating temperature		Outer jacket material	FEP
-70 to 200° C		Connector	HDRC-100, HDRAA-1, DVIM-3, DVIF-1, DVIM-2, DVIRA-1

DV100-1526-100 – HIGH-DEFINITION MULTIMEDIA AIRCRAFT GRADE CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
300 MHz	17.0	Center conductor	Stranded SPC
1.6 GHz	42.0	Dielectric material	PTFE
4.126 GHz	70.0	Shield #1	Aluminum mylar foil
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	5.7	Outer diameter	0.29"
Min. bend radius	1.35"	Conductor	15
Operating temperature		Outer jacket material	FEP
-50 to 150° C		Connector	HDRC-100, HDRAA-1, DVIM-3, DVIF-1, DVIM-2, DVIRA-1

DV100-1524-101 – HIGH-DEFINITION MULTIMEDIA AIRCRAFT GRADE CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
300 MHz	10.9	Center conductor	Solid bare copper
1.6 GHz	30.0	Dielectric material	Polyolefin
5.1 GHz	54	Shield #1	Aluminum polyester foil
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	8.5	Outer diameter	0.39"
Min. bend radius	4.0"	Conductor	15
Operating temperature		Outer jacket material	FEP
-40 to 150° C		Connector	HDRC-100, HDRAA-1, DVIM-3, DVIF-1, DVIM-2, DVIRA-1



PFLX175-075-01 – 75 OHM VIDEO/HDTV CABLES

Attenuation (dB/100 ft. nominal)		Operating temperature	
100 MHz	4.7	-55 to 85° C	
400 MHz	10.1	Cable construction	
950 MHz	15.4	Center conductor	SPC clad steel
1000 MHz	16.0	Dielectric material	Solid polyethylene
1600 MHz	20.5	Shield #1	Semi-bonded aluminum polyester tape
2150 MHz	23.4	Shield #2	TC braid
Mechanical properties		Outer diameter	0.18"
Weight (lbs./100 ft.)	1.8	Outer jacket material	PE
Min. bend radius	0.5"		



PFLX190-075-01 – 75 OHM VIDEO/HDTV CABLES

Attenuation (dB/100 ft. nominal)		Operating temperature	
100 MHz	2.5	-55 to 85° C	
400 MHz	5.1	Cable construction	
950 MHz	-	Center conductor	SPC
1000 MHz	8.2	Dielectric material	Foam FEP
1600 MHz	10.4	Shield #1	Semi-bonded aluminum polyester tape
2150 MHz	12.2	Shield #2	TC braid
Mechanical properties		Outer diameter	0.21"
Weight (lbs./100 ft.)	2.8	Outer jacket material	PE
Min. bend radius	0.5"		



PFLX275-075-01 – 75 OHM VIDEO/HDTV CABLES

Attenuation (dB/100 ft. nominal)		Operating temperature	
100 MHz	1.84	-55 to 85° C	
400 MHz	3.5	Cable construction	
950 MHz	5.8	Center conductor	Bare copper
1000 MHz	5.89	Dielectric material	Gas-injected PE
1600 MHz	7.5	Shield #1	Aluminum polyester tape
2150 MHz	8.95	Shield #2	TC braid
Mechanical properties		Outer diameter	0.28"
Weight (lbs./100 ft.)	4.29	Outer jacket material	PE
Min. bend radius	2.75"		



HIGH-DEFINITION MULTIMEDIA CABLE CONNECTORS

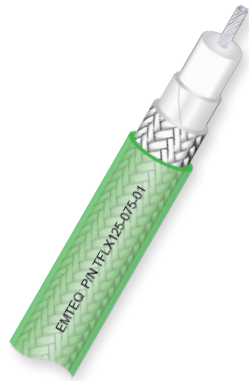
- HDRC-100 – ruggedized high definition video connector
- HDRAA-1 – high definition video connector right angle adapter
- DVIM-3, DVIM-2 – DVI male
- DVIF-1 – DVI female
- DVIRA-1 45 degree angle



Entertainment cables

TFLX125-075-01 - 75 OHM VIDEO/HDTV CABLES

Attenuation (dB/100 ft. nominal)		Operating temperature	
100 MHz	5.4	-55 to 150° C†	
400 MHz	11.2	Cable construction	
950 MHz	16.6	Center conductor	Stranded SPC alloy
1000 MHz	17.1	Dielectric material	High-temp PTFE
1600 MHz	21.8	Shield #1	Bonded aluminum polyester tape
2150 MHz	23.5	Shield #2	TC braid
Mechanical properties		Outer diameter	0.13"
Weight (lbs./100 ft.)	1.1	Outer jacket material	FEP
Min. bend radius	0.6"		



TFLX180-075-01* - 75 OHM VIDEO/HDTV CABLE

Attenuation (dB/100 ft. nominal)		Operating temperature	
100 MHz	3.0	-55 to 150° C†	
400 MHz	6.1	Cable construction	
950 MHz	-	Center conductor	Stranded SPC
1000 MHz	10.0	Dielectric material	Extruded PTFE
1600 MHz	13.0	Shield #1	Bonded aluminum polyester tape
2150 MHz	15.1	Shield #2	TC braid
Mechanical properties		Outer diameter	0.18"
Weight (lbs./100 ft.)	2.4	Outer jacket material	ETFE
Min. bend radius	1.0"		



PFLX175-095-01‡ - DIGITAL AUDIO/STANDARD-DEFINITION VIDEO CABLES

Attenuation (dB/100 ft. nominal)		Operating temperature	
10 MHz	-	-55 to 85° C	
100 MHz	6.0	Cable construction	
400 MHz	12.5	Center conductor	TPC
1000 MHz	20.5	Dielectric material	Solid polypropylene
1600 MHz	27.0	Shield #1	TC braid
2150 MHz	33.0	Shield #2	-
Mechanical properties		Outer diameter	0.18"
Weight (lbs./100 ft.)	2.6	Outer jacket material	PE
Min. bend radius	0.5"	Ohm Ω	95



75 OHM PFLX AND TFLX CABLE CONNECTORS

Connector Type	Description	PFLX175-075-01	PFLX190-075-01	PFLX275-075-01	TFLX125-075-01	TFLX180-075-01
BNC male	Straight plug	BMS175-075-1	BMS190-075-1	BMS275-075-1	BMS125-075-1	BMS190-075-1
BNC male	90° plug	BMR175-075-1	BMR190-075-1	BMR275-075-1	BMR125-075-2	BMR190-075-1
BNC female	In-line jack	BFS175-075-1	BFS190-075-1	BFS275-075-1	BFS125-075-1	BFS190-075-1
BNC female	Bulkhead jack	BFS175-075-2	BFS190-075-2	BFS275-075-2	BFS125-075-2	BFS190-075-2
Mini BNC	Straight plug	MBMS175-075-1	MBMS190-075-1	MBMS275-075-1	MBMS125-075-1	MBMS190-075-1
Mini BNC	In-line jack, female	MBFS175-075-1/-2	MBFS190-075-1/-2	MBFS275-075-1/-2	MBFS125-075-1/-2	MBFS190-075-1/-2
Size 8 removable	Female, for Positronic D-Sub	DFC175-075-1	DFC190-075-1	-	DFC125-075-1	DFC190-075-1
Size 8 removable	Female, for Cannon D-Sub	DFC175-075-2	-	-	-	-
Size 8 removable	Male, for Positronic D-Sub	DMC175-075-1	DMC190-075-1	-	DMC125-075-1	DMC190-075-1
Size 8 removable	Male, for Cannon D-Sub	DMC175-075-2	-	-	-	-
Type F	Male, straight plug	FMS175-075-1	-	-	-	-
Type F	Male, 90° plug	FMR175-075-1	-	-	-	-
Type F	Right angle (crimp/crimp)	FMR175-075-2	-	-	-	-
ARINC size 5	Pin contact	A65175-075-2	-	-	A65125-075-2	-
ARINC size 5	Socket contact	A65175-075-3	-	-	-	-
ARINC size 8	Socket contact	A68175-075-1	-	-	A68125-075-1	-
ARINC 600 size 8	Female	-	AF68190-075-1	-	-	AF68190-075-1
ARINC 600 size 8	Male	-	A68190-075-1	-	-	A68190-075-1
ARINC size 9	Socket contact	-	-	-	A69125-075-1	-

*Laser markable jacket †Jacket rated to +200° C ‡S/PDIF

All values nominal.

Entertainment cables



D100-0222-764* – DIGITAL AUDIO/STANDARD-DEFINITION VIDEO CABLES

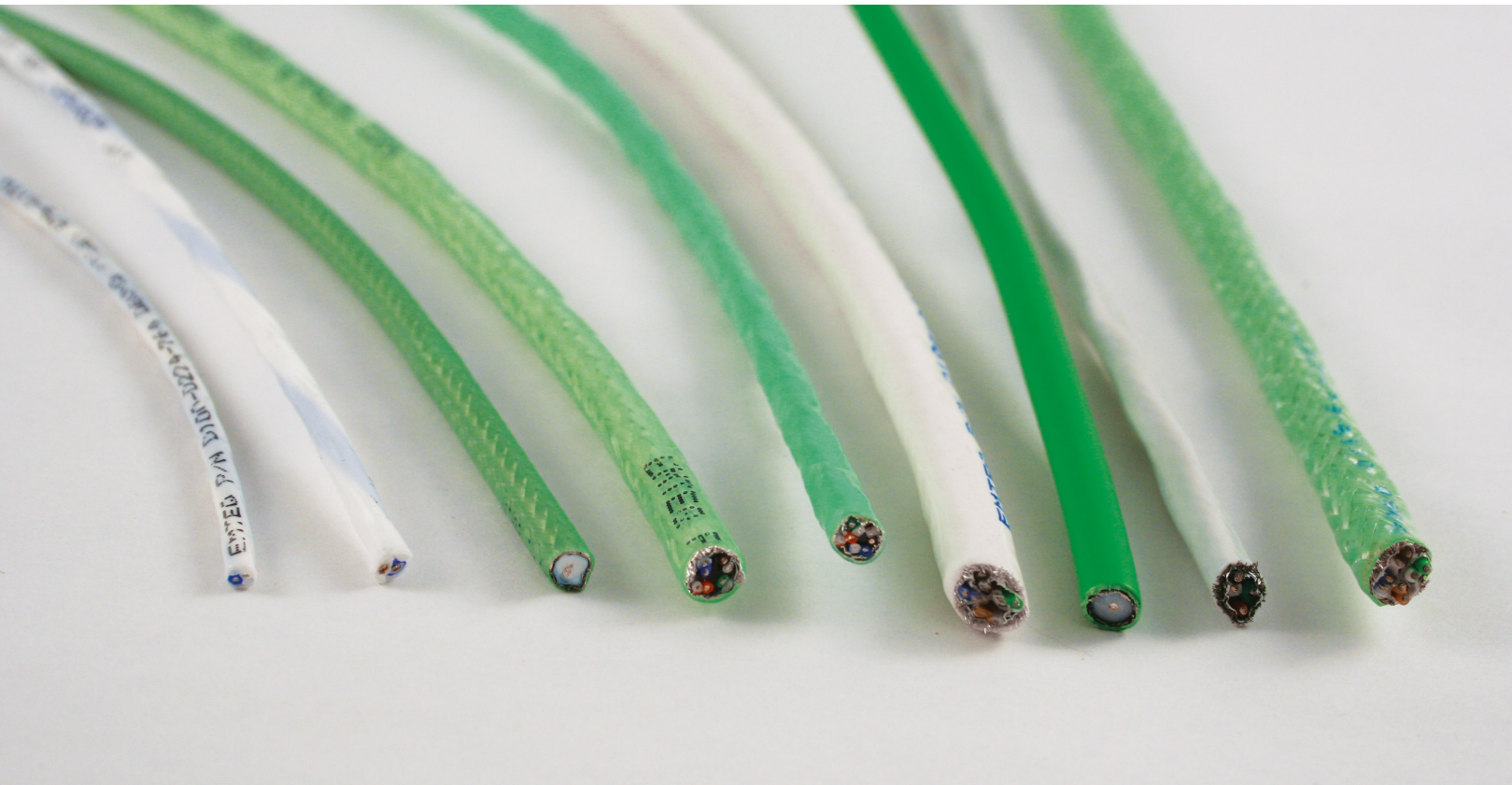
Attenuation (dB/100 ft. nominal)		Cable construction	
10 MHz	1.3	Center conductor	SPC
100 MHz	5.0	Dielectric material	Solid PTFE
Mechanical properties		Shield #1	-
Weight (lbs./100 ft.)	1.2	Shield #2	-
Min. bend radius	0.5"	Outer diameter	0.10"
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Ohm Ω	100
		Connector	**



D100-0222-200* – DIGITAL AUDIO/STANDARD-DEFINITION VIDEO CABLES

Attenuation (dB/100 ft. nominal)		Cable construction	
100 MHz	6.5	Center conductor	SPC
Mechanical properties		Dielectric material	Extruded EPTFE
Weight (lbs./100 ft.)	2.4	Shield #1	Aluminum polyimide
Min. bend radius	1.5"	Shield #2	SPC braid
Operating temperature		Outer diameter	0.19"
-50 to 150° C		Outer jacket material	ETFE
		Ohm Ω	100

*Laser markable jacket **Typically terminated into D-subminiature connectors



D100-0224-764* – DIGITAL AUDIO/STANDARD-DEFINITION VIDEO CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
10 MHz	1.6	Center conductor	SPC
100 MHz	6.0	Dielectric material	PTFE
Mechanical properties		Shield #1	-
Weight (lbs./100 ft.)	0.9	Shield #2	-
Min. bend radius	0.5"	Outer diameter	0.10"
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Ohm Ω	100



D10002-664WJ* – DIGITAL AUDIO/STANDARD-DEFINITION VIDEO CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
10 MHz	2.0	Center conductor	SPC
100 MHz	6.8	Dielectric material	Foamed FEP
Mechanical properties		Shield #1	Aluminum polyester tape
Weight (lbs./100 ft.)	1.9	Shield #2	TC round braid
Min. bend radius	0.8"	Outer diameter	0.16"
Operating temperature		Outer jacket material	ETFE
-55 to 150° C		Ohm Ω	100



U090-0422-100 – USB ENTERTAINMENT CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
100 MHz	6.8	Center conductor	SPC alloy
200 MHz	10.0	Dielectric material	ETFE
400 MHz	15.0	Shield #1	Aluminum polyester foil
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	3.1	Outer diameter	0.25"
Min. bend radius	1.0"	Outer jacket material	FEP
Operating temperature		Ohm Ω	90
-55 to 150° C			



CFLX-C05125-100 – VGA ENTERTAINMENT CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
100 MHz	5.4	Center conductor	SPC alloy
400 MHz	11.2	Shield #1	Aluminum polyester foil
Mechanical properties		Shield #2	TC braid
Weight (lbs./100 ft.)	8.0	Outer diameter	0.39"
Min. bend radius	2.0"	Outer jacket material	FEP
Operating temperature			
-50 to 150° C			

Databus cables

Databus cables streamline communication between various electronic components and avionics units in aircraft and military vehicles. Special impedance characteristics are also available to meet the performance of your operating system.



D07002-100 – DATABUS CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	1.0	Center conductor	SPC
5 MHz	2.2	Dielectric material	Extruded PTFE
10 MHz	3.0	Shield #1	TC round braid
100 MHz	-	Shield #2	-
Mechanical properties		Outer diameter	0.13"
Weight (lbs./100 ft.)	7.0	Outer jacket material	FEP
Min. bend radius	1.5"	Ohm Ω	70
Operating temperature			
-55 to +150° C			



D77-022402T-01 – DATABUS CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	1.4	Center conductor	SPC alloy
5 MHz	-	Dielectric material	Extruded PTFE
10 MHz	4.0	Shield #1	SPC alloy braid
100 MHz	13.0	Shield #2	-
Mechanical properties		Outer diameter	0.13"
Weight (lbs./100 ft.)	1.5	Outer jacket material	Extruded PFA
Min. bend radius	0.5"	Ohm Ω	77
Operating temperature			
Jacket rated at 200° C			



D07802-100 – DATABUS CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	1.0	Center conductor	SPC
5 MHz	-	Dielectric material	Solid PTFE
10 MHz	-	Shield #1	TC braid
100 MHz	-	Shield #2	TC braid
Mechanical properties		Outer diameter	0.20"
Weight (lbs./100 ft.)	3.8	Outer jacket material	FEP
Min. bend radius	1.0"	Ohm Ω	78
Operating temperature			
Jacket rated at 200° C			



D125-0224T-01 – DATABUS CABLE

Mechanical properties		Outer diameter	0.17"
Weight (lbs./100 ft.)	1.65	Outer jacket material	FEP
Min. bend radius	0.85"	Ohm Ω	125
Operating temperature			
-55 to 150° C			



D12502-400 – DATABUS CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
1 MHz	-	Center conductor	TC
5 MHz	-	Dielectric material	Foamed FEP
10 MHz	1.8	Shield #1	Aluminum mylar wrap
100 MHz	-	Shield #2	TC round braid
Mechanical properties		Outer diameter	0.22"
Weight (lbs./100 ft.)	2.4	Outer jacket material	FEP
Min. bend radius	2.2"	Ohm Ω	125
Operating temperature			
-55 to 150° C			

Triaxial cables

Triaxial cables support systems that require reduced noise pickup, while enhancing signal transfers.



TRX165-100 – TRIAXIAL CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
10 MHz	13.5	Center conductor	SC
100 MHz	21.9	Dielectric material	PTFE
Mechanical properties		Shield #1	TC
Weight (lbs./100 ft.)	3.4	Shield #2	TC
Min. bend radius	1.6"	Outer diameter	0.16"
Operating temperature		Outer jacket material	FEP
-55 to +200° C			



TRX245-200 – TRIAXIAL CABLE

Attenuation (dB/100 ft. nominal)		Cable construction	
10 MHz	8.5	Center conductor	SC
100 MHz	13.1	Dielectric material	Extruded PTFE
Mechanical properties		Shield #1	TC
Weight (lbs./100 ft.)	5.0	Shield #2	TC
Min. bend radius	2.5"	Outer diameter	0.24"
Operating temperature		Outer jacket material	ETFE
-55 to 200° C			

To learn more, go to

collinsaerospace.com/interconnectandintegrationsolutions

Collins Aerospace
888.679.6170
wovencs@collins.com
collinsaerospace.com

22-10562 08/22 © 2022 Collins Aerospace
Collins Aerospace is a registered trademark of Collins Aerospace companies.
All other marks are owned by their respective companies.

