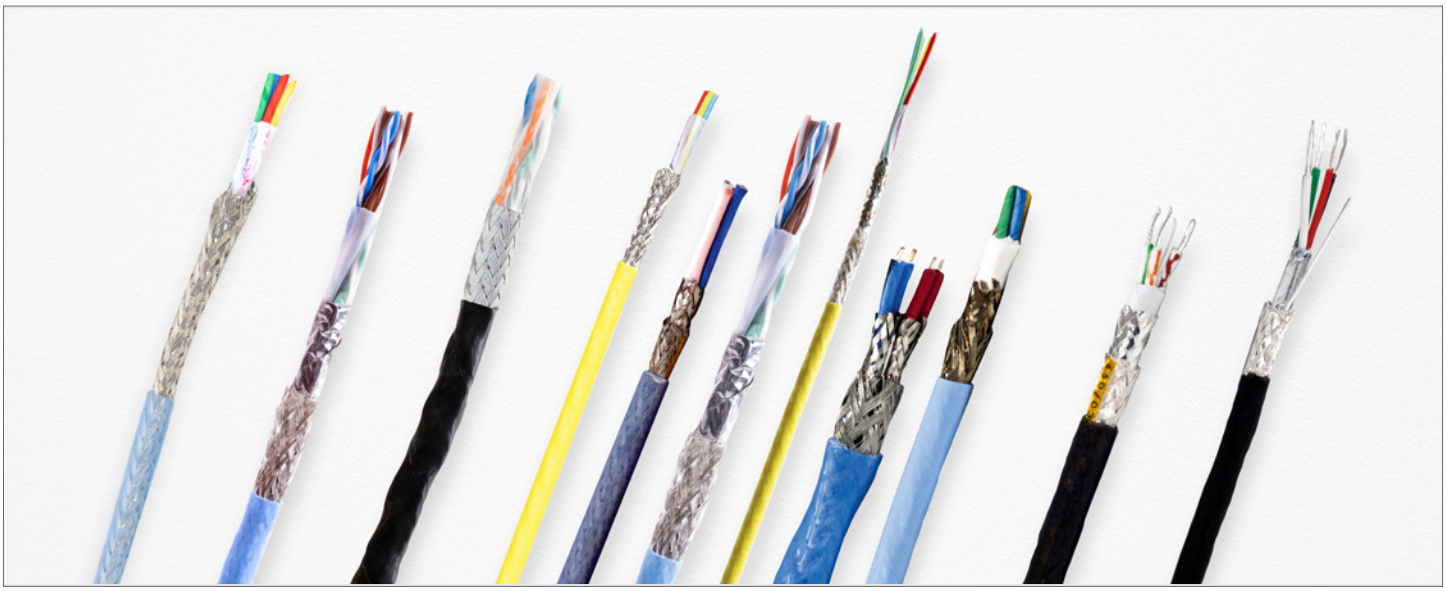
High-Speed Digital Data Cables

Gigabit, NETflight®, and Maxflite™ Series



Gigabit Series Ethernet Cables | NETflight® Series Ethernet Cables | Maxflite™ Series Cables

INTRODUCTION

We manufacture a wide variety of high-performance data cables designed to meet the needs of aerospace, defense, military, ground transportation, industrial, and RF communication applications like:

- Ethernet Backbone
- Avionics
- High-Definition Video
- Cabin Management Systems
- IFEC
- Bus

High-Speed Digital Data Cable Series:

Gigabit Ethernet cables have been developed in a wide variety of configurations to provide 1 and 10 Gb performance in the most demanding applications.

NETflight® Ethernet cables in single pair, dual pair, and quadrax configurations are widely used throughout the aerospace industry and provide superior electrical and mechanical performance.

Maxflite™ cables provide high-speed performance for the popular video and data bus protocols:

- HDMI
- DVI
- USB
- Firewire

In addition to the standard protocols, we also offer:

- Custom Designs
- Assembly Services

FEATURES & BENEFITS

- Exceptional electrical and mechanical performance
- Operating performance from -55 °C to as high as 200 °C
- Meets the requirements of aerospace and other harsh environments including FAR 25.853 flammability and Boeing/Airbus smoke and toxicity requirements
- Multiple configurations to meet the needs of almost any application
- Lightweight versions to address weight and space requirements
- Advanced technologies, including bonded pairs and an innovative X-Web, reduce crosstalk and ensure installable performance

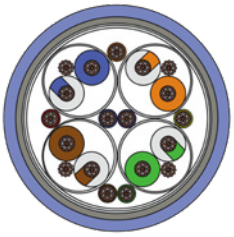
High-Speed Digital Data Cables

Maxflite™ Series

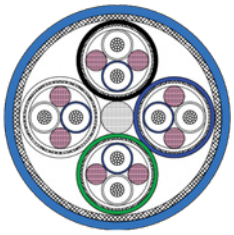
Maxflite™ Series	HDMI (1.3)	HDMI (2.0)	DVI	IEEE 1394 Firewire	USB 2.0 26/22 AWG	USB 3.0 24/26/22 AWG + Drain	USB 3.1
Part Number	1586-305	26453/1K017LX-15-DL	24463/05099X-8(LD)	24483/03063LX-6(LD)	NF26/22USB(A)	USB3.0/24(AM)	26443/1K016LX-16-DL
Nom. Impedance	100 Ω	100 Ω	100 Ω	110 Ω	90 Ω	90 Ω	90 Ω
Nom. Velocity of Propagation	70%	75%	75%	79%	70%	70%	75%
Nom. Attenuation	17 dB/100 ft @ 300 MHz	30 dB/100 ft @ 1 GHz	N/A	11 dB/100 ft @ 200 MHz	2 dB/5m @ 100 GHz	1.4 dB/m @ 1.25 GHz	4.9 dB/3m @ 1.25 GHz
	42 dB/100 ft @ 1.6 GHz	50 dB/100 ft @ 2 GHz		17 dB/100 ft @ 400 MHz	3.2 dB/5m @ 200 MHz	2.4 dB/m @ 2.5 GHz	6.9 dB/3m @ 2.5 GHz
	70 dB/100 ft @ 4.1 GHz	70 dB/100 ft @ 3 GHz		24 dB/100 ft @ 800 MHz	5.8 dB/5m @ 400 MHz	4.1 dB/3m @ 5 GHz	10.8 dB/3m @ 5 GHz
						5.1 dB/3m @ 7.5 GHz	14.8 dB/3m @7.5 GHz
							19.7 dB/3m @10 GHz
Nom. Weight lbs/1000 ft (kg/1000 m)	72 (107)	64 (95.1)	105 (156)	78 (116)	19 (28)	50 (74.41)	73 (108.8)
Nom. Diameter in (mm)	0.315 (8)	0.295 (7.49)	0.4 (10.16)	0.34 (8.64)	0.133 (3.4)	0.27 (6.8)	0.295 (7.49)
Min. Bend Radius in (mm)	1.89 (48)	1.5 (38.1)	4 (102)	3.4 (86)	1.3 (33)	2.7 (68.6)	1.5 (38.1)
Operating Temp**	-55 to 150 °C	-55 to 135 °C	-55 to 150 °C	-55 to 150 °C	-55 to 150 °C	-55 to 150 °C	-55 to 200 °C
Meets FAR 25.853	✓	✓	✓	✓	✓	✓	✓
Meets Boeing/ Airbus Smoke & Toxicity	✓	✓	✓	✓	✓	✓	✓

***Available at -65 ºC. Contact us for details.*

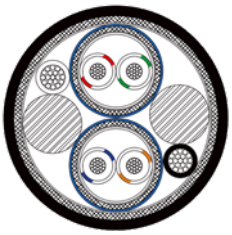
HDMI



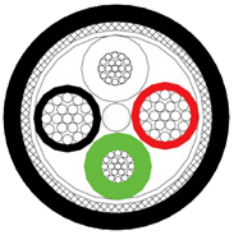
DVI



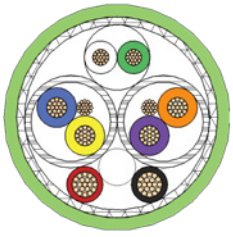
IEEE 1394 Firewire



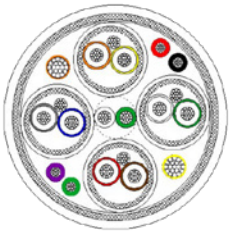
USB 2.0



USB 3.0



USB 3.1



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