

High-Performance 24 AWG Ethernet Quad Cable

NETflight® Series

INTRODUCTION



High-Performance 24 AWG Ethernet Quad Cable

Amphenol CIT is excited to announce the newest addition to our NETflight® Ethernet Series: NF24Q100-01HP, a high-performance 24 AWG Ethernet Quad Cable designed to provide reliable performance at extreme data rates in a 100 Ω quad construction. Part of our robust family of data cable products, this cable is:

- » Lightweight
- » Compact
- » RoHS compliant

Tested to 1 GHz up to 100 ft, the NF24Q100-01HP provides all of the performance and benefits of previous Ethernet quad constructions, but with a higher temperature rating and faster data rates up to 1 GHz, making it ideal for the harsh environments of aerospace and military applications.

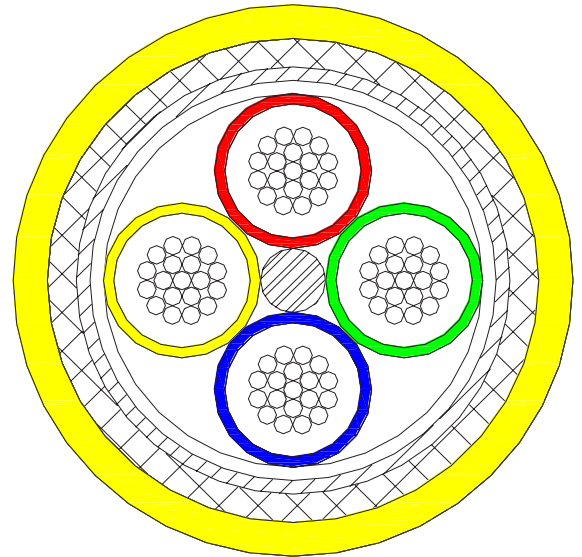
FEATURES	BENEFITS
Faster data speeds up to 1 GHz	• Supports more applications
Use in extreme environmental conditions	• Better handling during termination and installation and over long-term use
Reliable electrical performance	• Customer confidence in overall system application
Cable identification located on jacket	• Easily identifiable during installation
Higher temperature range	• Able to use up to 200 °C

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SPECIFICATIONS & PERFORMANCE

24 AWG High-Performance Ethernet Quad		
Part Number	NF24Q100-01HP	
AWG Size (Stranding)	24 (19/36)	
Nominal Outer Diameter	4.06 mm (0.160")	
Typical Weight	36.4 kg/km (24.5 lb/1000 ft)	
Mechanical		
Jacket Material	Extruded FEP	
Jacket Color	Yellow	
Conductor	Silver-Coated Copper Alloy	
Conductor Color Coding	Red, Blue, Yellow, Green	
Dielectric	Extruded Fluoropolymer	
Temperature Range	-65 to 200 °C	
Electrical		
Standard Impedance	100 +/- 10 Ω	
Nominal Capacitance	13 pf/ft	
Nominal Velocity of Propagation	80%	
Maximum Insertion Loss	@ 100 MHz	9.1 dB/30 m 9.1 dB/100 ft
	@ 500 MHz	21.3 dB/30 m 21.3 dB/100 ft
	@ 1 GHz	32 dB/30 m 32 dB/100 ft
Minimum Near-End Crosstalk (NEXT)	@ 100 MHz	35.3
	@ 1 GHz	24.0
Minimum Return Loss	@ 100 MHz	19.0
	@ 1 GHz	6.0



NF24Q100-01HP Cable Cross Section