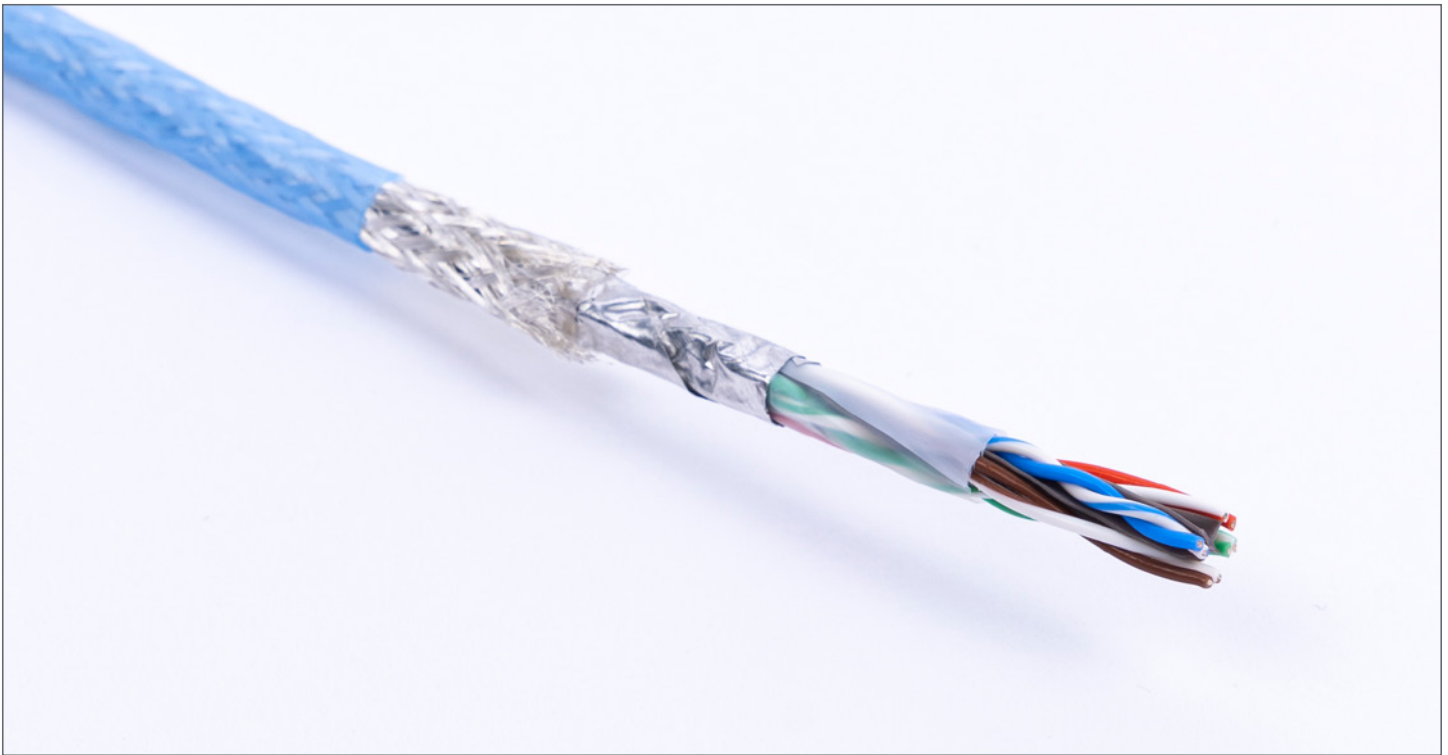


MX10G-24-ALW Lightweight High-Speed Digital Data Cables

Gigabit Series



INTRODUCTION

To address the aerospace market's ever-present challenge of reducing weight aboard aircraft, we have developed the MX10G-24-ALW, the newest addition to our Gigabit-Plus™ line of high-speed digital data cables. In place of the standard copper-based shield, this 100 Ω 1-10 G Base-T Ethernet cable features an aluminum round shield which allows substantial weight savings without sacrificing temperature rating or electrical performance.

FEATURES	BENEFITS
Optimized weight for aerospace applications	<ul style="list-style-type: none">• 10% lighter than standard Gigabit cables
Ease of termination	<ul style="list-style-type: none">• Compatible with standard RJ-45 connectors or Amphenol CIT Octax® connectors• Suitable for use in high-temperature applications
Supports gigabit data up to 250 MHz	<ul style="list-style-type: none">• Equivalent electrical performance of higher weight cables
Identification marking on jacket	<ul style="list-style-type: none">• Readable identification for installers

MX10G-24-ALW Lightweight High-Speed Digital Data Cables

Gigabit Series

100 Ω 1-10 G Base-T Lightweight Ethernet Cable		
P/N	MX10G-24-ALW	
Product Family	Gigabit-Plus™	
AWG Size	24 AWG (19/36)	
Pairs	4	
Nominal Outer Diameter	0.270" (6.86 mm)	
Weight	45 lbs/1000 ft (67 kg/1000 m)	
Mechanical		
Jacket Material	PTFE	
Jacket Color	Blue	
Conductor	Stranded Silver-Plated Copper Alloy	
Conductor Color Coding	<ul style="list-style-type: none"> • Blue & White/Blue • Green & White/Green • Orange & White/Orange • Brown & White/Brown 	
Dielectric	FEP	
Shield 1 Material	AL/Mylar	
Round Shield Material	Aluminum	
Temperature Range	-55 to 150 °C	
Min. Bend Radius	2" (50.8 mm)	
Electrical		
Standard Impedance	100 Ω	
DC Resistance @ 100 ft	2.76 Ω	
Velocity of Propagation	70%	
Minimum Near-End Crosstalk (NEXT)	34 dB	
Attenuation @ 100 m	@ 100 MHz	24 dB
	@ 250 MHz	40 dB
Aerospace Standards		
ROHS Compliant	✓	
Meets FAR 25.853 Flammability Requirements	✓	
Meets Boeing/Airbus Smoke & Toxicity Requirements	✓	



MX10G-24-ALW Cross Section