

# Thermax

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Scope: This specification defines the physical and electrical characteristics of a shielded 1000/10G BaseT Ethernet cable.

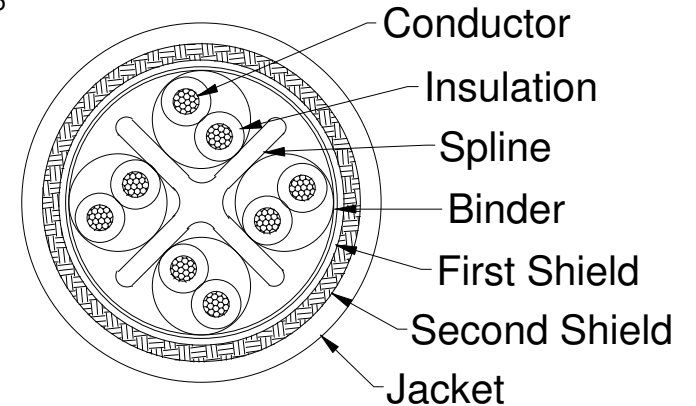
**Construction Details - Twisted Pair**  
 Conductor 24 AWG 19x36 silver plated copper alloy  
 Insulation Extruded FEP  
 Color Pair #1 Wht/Blu & Blu; Pair #2 Wht/Org & Org;  
 Pair #3 Wht/Grn & Grn; Pair #4 Wht/Brn & Brn  
 Pair Two insulated conductors twisted together (varied pair lays)

Diameter  
 .0235"  
 .045"

**Final Assembly**

Cable Four twisted pairs cabled around central spline  
 Binder Skive PTFE tape  
 First Shield Aluminum mylar tape  
 Second Shield 38 AWG silver plated copper braid - 85% coverage  
 Jacket Extruded FEP, Color: Transparent Blue  
 Identification Print Legend: "Thermax MX10G-24"

.245"  
 .270"



**Properties**

Impedance 100 Ohms ± 15% (1 to 100MHz)  
 100 Ohms ± 22% (100 to 250MHz)  
100MHz      250MHz  
 Attenuation 24 dB/100m      40 dB/100m  
 NEXT 40 dB      34 dB  
 PSNEXT 38 dB      32 dB  
 ELFEXT 27 dB      18 dB  
 PSELFEXT 24 dB      14 dB

Temperature Rating -65°C to 150°C  
 Weight 5.0 lbs/100ft

Max. Cabling Distance 100m (1000BaseT)  
 80m (10GBaseT)

Min Bend Radius 2.75"

**Non-Controlled Copy**

Cable is RoHS compliant and meets FAR 25 Appendix F. for flammability, and smoke and toxicity requirements of Boeing and ABD0031.

Product Specification			Revisions			
MX10G-24			Rev.	Description	Date	Approved
			D	Added identification	11-05-10	JAD
E	Revised ID method	01-10-11	JAD			
F	Added to note about smoke and toxicity	11-07-12	JAD			
G	Editorial	09-10-14	JAD			
H	Added Min Bend Radius	03-19-15	JAD			

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Cage Code  
12814

Prepared by RAC      Date 04-10-07      Page 1 of 1