

# MaxFlite® Gigabit-Plus Ethernet Cables



See other side  
for specifications.

## Future-Proof Your High-Speed Data Systems

Announcing new **MaxFlite® Gigabit-Plus** Ethernet cables from Thermax; offering the performance you need today, with the capacity you'll need tomorrow. **MaxFlite® Gigabit-Plus** Ethernet has the capability to accommodate increased data rates without the cost of reinstalling cable.

Our innovative, patented X-Web central spline positions the wire pairs with much more precision than conventional fillers, reducing the need for individual pair shielding with no increase in crosstalk.

This also translates to lighter weight than conventional constructions, and smaller overall size for more convenient and economical installation.

*MaxFlite® Gigabit-Plus Cables meet the flammability requirements of FAR 25.853, and the smoke and toxicity requirements of Boeing and Airbus ABD0031.*



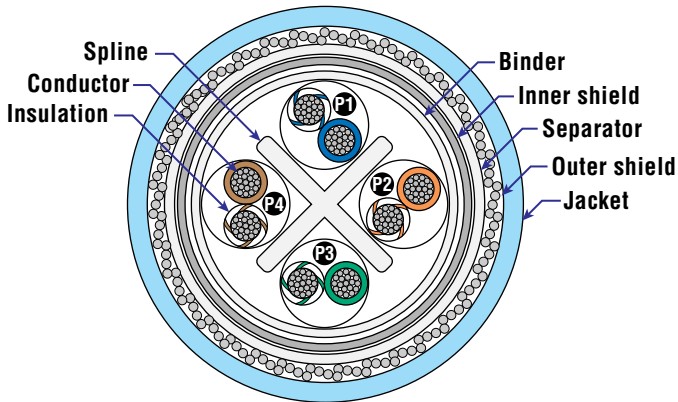
*Our patented X-Web central spline positions wire pairs precisely, reducing the need for individual pair shielding, with no increase in crosstalk.*

# Thermax

[www.thermaxcdt.com](http://www.thermaxcdt.com)

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## Specifications



Proportions altered to illustrate detail

### Construction Details

- Jacket:** Transparent extruded blue FEP, .275" diameter.
- Outer shield:** Round tin-plated copper braid, 85% minimum coverage .250" diameter.
- Separator:** Skived PTFE tape.
- Inner shield:** Aluminum/Mylar, 100% coverage.
- Binder:** Skived PTFE tape.
- Cabling:** Four twisted pairs, cabled together.
- Component wire insulation:** Extruded fluoropolymer, .045" diameter.
- Component wire conductor:** 24 AWG (19/36) silver-plated copper alloy, .0235" diameter.
- Spline:** Extruded FEP, X-Web.
- Insulation colors:**
  - Pair 1: White/Blue, Blue
  - Pair 2: White/Orange, Orange
  - Pair 3: White/Green, Green
  - Pair 4: White/Brown, Brown

### Mechanical and Environmental

- Temperature Rating:** 200° C.
- Weight:** 5.5 pounds / 100 feet.
- Bend Radius:** 2 inches minimum.

### Electrical

- Impedance:** 100 ± 15 ohms.
- Time Delay:** 1.45 nanoseconds per foot.
- Velocity of Propagation:** 70% nominal.
- DC Resistance:** 2.75 ohms per 100 feet maximum.

### Attenuation

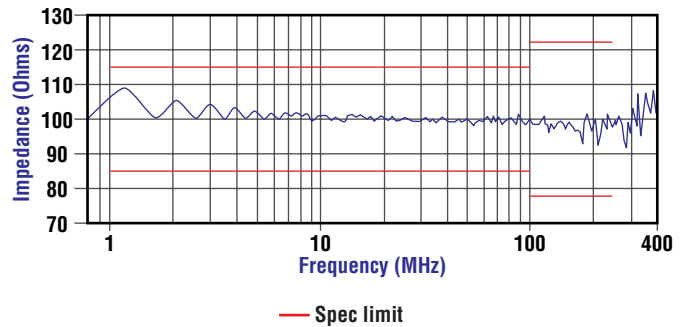
|                  |     |     |      |      |      |      |      |       |      |       |       |       |
|------------------|-----|-----|------|------|------|------|------|-------|------|-------|-------|-------|
| Frequency (MHz): | 1.0 | 4.0 | 8.0  | 10.0 | 16.0 | 20.0 | 25.0 | 31.25 | 62.5 | 100.0 | 200.0 | 250.0 |
| dB / 100 feet:   | .7  | 1.5 | 2.15 | 2.4  | 3.0  | 3.4  | 3.8  | 4.3   | 6.2  | 8.1   | 10.9  | 12.4  |

### ACR (Typical)

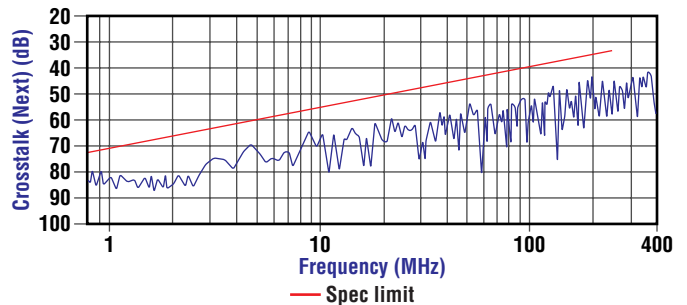
|                  |     |     |     |      |      |      |      |       |      |       |       |       |
|------------------|-----|-----|-----|------|------|------|------|-------|------|-------|-------|-------|
| Frequency (MHz): | 1.0 | 4.0 | 8.0 | 10.0 | 16.0 | 20.0 | 25.0 | 31.25 | 62.5 | 100.0 | 200.0 | 250.0 |
| dB / 100 meters: | 72  | 60  | 54  | 52   | 47   | 44   | 42   | 40    | 31   | 23    | 9     | 4     |

## Electrical Performance

### Impedance (Typical)



### Crosstalk (Typical)



### Return Loss (Typical)

