



At PIC Wire & Cable®, our mission is to make our customers' job easier by providing high quality, high performance engineered electronic cables and interconnect solutions for demanding military and aerospace applications. For over 45 years, PIC Wire & Cable has helped industry leading companies improve their platform performance, reduce their schedules & lower their total costs through a unique combination of quality, technology and service.

Using the latest technologies, PIC cable products are designed and manufactured to meet the stringent electrical and mechanical performance criteria required for these advanced electronic applications - EMI immunity, lightweight, low loss, high temperature, harsh environment. Ensuring world class quality and reliability is a top priority at PIC, as evidenced by our world class quality certifications and consistently positive customer feedback.

PIC Wire & Cable is once again advancing high speed data communication technology with our extensive DataMATES® Ethernet line that offers tailored solutions for many civil and military aerospace applications, including:

- Ethernet Communications Backbone
- Mobile Shelters
- Cabin Management
- In-flight Entertainment
- Avionics Networks
- High Definition Video

ETHERNET SOLUTIONS

Physical and Electrical Data

All values nominal unless otherwise noted

1 Pair Cables

| Part Number | Speed Rating | Data Conductor | Weight lbs/100 ft (kg/100 m) | O.D. in (mm) | Jacket | Temperature Range (°C) | Max Distance ft (m) |
|-------------|---------------|----------------|------------------------------------|-----------------|------------------------------------|---------------------------|------------------------|
| E5E2222-D | 10/100 BASE-T | 22 AWG SPC | 2.3 (3.4) | 0.18 (4.57) | White Fluoropolymer Laser Markable | -55/+200 | * |
| E10222 | 10/100 BASE-T | 22 AWG TPC | 2.3 (3.4) | 0.19 (4.80) | White Fluoropolymer Laser Markable | -50/+150 | 362 (110) |
| E5E2224-D | 10/100 BASE-T | 24 AWG SPCA | 2.0 (3.0) | 0.16 (4.06) | White Fluoropolymer Laser Markable | -55/+200 | * |
| E10224 | 10/100 BASE-T | 24 AWG SPC | 2.2 (3.2) | 0.16 (4.14) | Blue Fluoropolymer | -50/+200 | 328 (100) |
| E20224 | 10/100 BASE-T | 24 AWG SPCA | 1.1 (1.6) | 0.14 (3.58) | White Fluoropolymer Laser Markable | -50/+200 | 273 (83) |
| E12224 | 10/100 BASE-T | 24 AWG TPC | 1.6 (2.4) | 0.15 (3.71) | White Fluoropolymer Laser Markable | -55/+150 | 255 (78) |
| E60224 | 10/100 BASE-T | 24 AWG SPC | 0.9 (1.3) | 0.10 (2.59) | White Fluoropolymer Laser Markable | -55/+200 | * |
| E13226 | 10/100 BASE-T | 26 AWG SPCA | 1.7 (2.5) | 0.13 (3.40) | White Fluoropolymer Laser Markable | -55/+200 | 224 (68) |

Materials Key: TPC – Tin-Plated Copper; SPC – Silver-Plated Copper; SPCA – Silver-Plated Copper Alloy

*no maximum distance

2 Pair Cables

| Part Number | Speed Rating | Data Conductor | Weight lbs/100 ft (kg/100 m) | O.D. in (mm) | Jacket | Temperature Range (°C) | Max Distance ft (m) |
|-------------|---------------|----------------|------------------------------------|-----------------|------------------------------------|---------------------------|------------------------|
| E10422 | 10/100 BASE-T | 22 AWG SPC | 3.7 (5.5) | 0.30 (7.94) | White Fluoropolymer Laser Markable | -55/+200 | 328 (100) |
| E40424 | 10/100 BASE-T | 24 AWG SPC | 2.7 (4.1) | 0.21 (5.28) | White Fluoropolymer Laser Markable | -55/+200 | 268 (82) |
| E10424 | 10/100 BASE-T | 24 AWG SPC | 3.3 (4.9) | 0.21 (5.28) | Blue Fluoropolymer | -55/+200 | 268 (82) |
| E12424 | 10/100 BASE-T | 24 AWG TPC | 2.3 (3.4) | 0.21 (5.28) | White Fluoropolymer Laser Markable | -55/+150 | 257 (78) |
| E20424 | 10/100 BASE-T | 24 AWG SPC | 4.2 (6.2) | 0.27 (6.73) | Blue Fluoropolymer | -55/+200 | 296 (90) |
| E13426 | 10/100 BASE-T | 26 AWG SPCA | 2.0 (2.9) | 0.16 (3.99) | White Fluoropolymer Laser Markable | -55/+200 | 224 (68) |

4 Pair Cables

| Part Number | Speed Rating | Data Conductor | Weight lbs/100 ft (kg/100 m) | O.D. in (mm) | Jacket | Temperature Range (°C) | Max Distance ft (m) |
|-------------|--------------|----------------|------------------------------------|-----------------|--|---------------------------|------------------------|
| E6A6824 | 10G BASE-T | 24 AWG SPCA | 4.4 (6.5) | 0.26 (6.60) | White Fluoropolymer Tape Laser Markable | -55/+200 | 246 (75) |
| E6A5824 | 10G BASE-T | 24 AWG SPCA | 4.2 (6.3) | 0.26 (6.48) | White Fluoropolymer Tape Laser Markable | -55/+200 | 296 (90) |
| E6A0824 | 10G BASE-T | 24 AWG SPC | 5.3 (7.9) | 0.28 (6.99) | Blue Fluoropolymer | -55/+200 | 246 (75) |
| E6A2824 | 10G BASE-T | 24 AWG TPC | 4.6 (6.8) | 0.28 (6.99) | White Fluoropolymer Laser Markable | -55/+150 | 214 (65) |
| E50824 | 1000 BASE-T | 24 AWG SPC | 5.0 (7.4) | 0.27 (6.73) | Blue Fluoropolymer | -55/+200 | 268 (82) |
| DV0824 | 1000 BASE-T | 24 AWG SPCA | 7.7 (11.5) | 0.35 (8.89) | White Fluoropolymer Laser Markable | -55/+200 | * |
| E6A6826 | 10G BASE-T | 26 AWG SPCA | 3.2 (4.8) | 0.22 (5.59) | White Fluoropolymer Tape Laser Markable | -55/+200 | 214 (65) |
| E6A5826 | 10G BASE-T | 26 AWG SPCA | 3.0 (4.5) | 0.21 (5.33) | White Fluoropolymer Tape Laser Markable | -55/+200 | 230 (70) |

Quadraxial Cables

| Part Number | Speed Rating | Data Conductor | Weight lbs/100 ft (kg/100 m) | O.D. in (mm) | Jacket | Temperature Range (°C) | Max Distance ft (m) |
|-------------|---------------|----------------|------------------------------------|-----------------|--|---------------------------|------------------------|
| E51424 | 10/100 BASE-T | 24 AWG SPCA | 2.2 (3.3) | 0.16 (4.06) | White Fluoropolymer Laser Markable | -55/+150 | 255 (78) |
| E50424 | 10/100 BASE-T | 24 AWG SPC | 2.7 (4.0) | 0.17 (4.32) | Blue Fluoropolymer | -55/+200 | 236 (72) |
| E51426 | 10/100 BASE-T | 26 AWG SPCA | 1.8 (2.7) | 0.14 (3.48) | White Fluoropolymer Tape Laser Markable | -55/+150 | 214 (65) |
| E51428 | 10/100 BASE-T | 28 AWG SPCA | 1.0 (1.5) | 0.11 (2.92) | White Fluoropolymer Tape Laser Markable | -55/+200 | 170 (51) |