



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 40 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 expanded DataMATES® product lines** that offer tailored solutions for many military & aerospace applications including:

- Ethernet Communications Backbone
- Ground Vehicle Bus
- Cabin Management
- In-flight Entertainment
- Avionics Networks
- High Definition Video







**ANOTHER CABLE ADVANCEMENT FROM PIC WIRE & CABLE:**





Our E5E3624 Power over Ethernet CAT 5e cable has a bend radius of .8 inch and is 50% more flexible than the previously spec'd cable for Honeywell's Ovation™ Select Cabin Management System.

# HIGH SPEED SOLUTIONS

## Attribute Overview

Ethernet Family	Category Ratings	Conductor	Data Pairs	Temp	Weight	Flexibility	Size	Shielding
<b>PIC</b>  <b>DataMATES</b> ® PLUS	5e, 6a	24 AWG	1, 2, 4	200°C	Light	Medium	Small	Very High
<b>PIC</b>  <b>DataMATES</b> ® BASE	5e, 6a	24 AWG	1, 2, 4	150°C	Light	High	Small	Very High
<b>PIC</b>  <b>DataMATES</b> ® LITE	5e, 6a	26 AWG	1, 2, 4	200°C	Very Light	Very High	Very Small	High
<b>PIC</b>  <b>DataMATES</b> ® QUAD	5e	24/26 AWG	4 Conductors	150°C	Light	High	Small	High

**See detailed specifications on the back**

Ethernet Family	Value Prop	Cable	Rating	Data Pairs	Temp	Max Distance ft (m)	Conductor Insulation O.D. in (mm)	Cable O.D. in (mm)	Weight lbs/100 ft (kg/100 m)	Cond	Inner Shield	Outer Shield	Jacket
	<ul style="list-style-type: none"> <li>• 200°C temp</li> <li>• Better shielding</li> <li>• Better corrosion</li> </ul>	E10224	CAT 5e	1 Pair	200°C	332 (101)	0.061 (1.549)	0.16 (4.14)	2.2 (3.2)	24 AWG SPC	Mylar Foil	90% Braid Silver PC	Blue Fluoropolymer Extruded
		E10424	CAT 5e	2 Pairs	200°C	268 (82)	0.061 (1.549)	0.21 (5.28)	3.3 (4.9)				
		E6A0824	CAT 6a	4 Pairs	200°C	246 (75)	0.048 (1.220)	0.28 (6.99)	5.3 (7.9)				
	<ul style="list-style-type: none"> <li>• 150°C temp</li> <li>• Good shielding</li> <li>• Laser markable</li> </ul>	E12224	CAT 5e	1 Pair	150°C	255 (78)	0.052 (1.321)	0.15 (3.71)	1.6 (2.4)	24 AWG Tin PC	Mylar Foil	85% Braid Tin PC	White ETFE Extruded
		E12424	CAT 5e	2 Pairs	150°C	257 (78)	0.061 (1.549)	0.21 (5.28)	2.3 (3.4)				
		E6A2824	CAT 6a	4 Pairs	150°C	214 (65)	0.048 (1.220)	0.28 (6.99)	4.6 (6.8)				
	<ul style="list-style-type: none"> <li>• 200°C temp</li> <li>• Very light</li> <li>• Very flexible</li> </ul>	E13226	CAT 5e	1 Pair	200°C	224 (68)	0.043 (1.092)	0.13 (3.40)	1.7 (2.5)	26 AWG (19/38) SPCA	NONE	80% Braid Silver PC	White PTFE Tape Sintered
		E13426	CAT 5e	2 Pairs	200°C	224 (68)	0.043 (1.092)	0.16 (3.99)	2.0 (2.9)				
		E6A3826	CAT 6a	4 Pairs	200°C	214 (65)	0.036 (0.914)	0.22 (5.59)	3.3 (4.9)				
		E5E1724	CAT 5e	2 Pairs	150°C	257 (78)	Data Pair: 0.058 (1.473) Power Pair: 0.046 (1.168)	0.20 (5.08)	3.5 (5.2)	Data Pair: 24 AWG TPC Power Pair: 22 AWG TPC	Aluminum/Polyester	85% Braid Tin PC	White ETFE Extruded
		E5E3624	CAT 5e	2 Pairs	200°C	268 (82)	Data Pair: 0.043 (1.092) Power Pair: 0.056 (1.420)	0.25 (6.35)	4.5 (6.7)	Data Pair: 24 AWG SPCA Power Pair: 20 AWG SPC	Mylar Foil	90% Braid Silver PC	White PTFE Tape
	<ul style="list-style-type: none"> <li>• 10% lighter</li> <li>• Lower loss</li> <li>• Easier termination</li> </ul>	E51424	CAT 5e	2 Pairs	150°C	255 (78)	0.045 (1.143)	0.16 (4.06)	2.2 (3.3)	24 AWG SPCA	90% Braid Tin PC	85% Braid Tin PC	White ETFE Extruded
		E51426	CAT 5e	2 Pairs	150°C	214 (65)	0.038 (0.965)	0.14 (3.48)	1.8 (2.7)	26 AWG (19/38) SPCA			