



RAYCHEM HIGH-SPEED CABLE FOR IEEE 1394 APPLICATIONS

DEPENDABLE SIGNAL INTEGRITY FOR HIGH-SPEED DATA TRANSMISSION
IN RUGGED MILITARY AND AEROSPACE ENVIRONMENTS

SPACE AND WEIGHT SAVINGS

- Easier routing in confined spaces
- Smaller cable bundles for improved installation

RUGGED

- Tough, high-temperature FEP insulation and jacket

COMPATIBLE

- 1394A: up to 0.4 Gb/s
- 1394B: up to 3.2 Gb/s
- Laser markable jacket

APPLICATIONS

- Mission Systems
- Flight Control
- Avionics
- Propulsion Control

Raychem high-speed cables for IEEE 1394 applications give you high-speed capabilities in a rugged, compact package. Our portfolio of fine-gauge 1394 cable designs gives you greater flexibility in routing through space-constrained environments, while still meeting requirements for a wide temperature range, low flammability and smoke generation, and easy termination.

The cables are available in four-conductor configurations to meet the needs of 1384A and B applications. Standard configurations use a double braid shield to achieve excellent signal integrity in noisy aerospace and military environments. Consult TE Connectivity (TE) for other configurations.

TE Components . . . TE Technology . . . TE Know-how . . .
AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH
SEACON Phoenix | L.L. Rowe | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.

HIGH-SPEED CABLE FOR IEEE 1394 APPLICATIONS

High-Speed Data Transmission In Military and Aerospace Environments

Specifications

MATERIALS

- **Conductors:**
24, 22 AWG: Silver-coated copper alloy
26 AWG: Silver-coated high-strength alloy
Component Color: Blue/Orange, Red/Green
- **Dielectric:** Foamed FEP
- **Core Wrap:** PTFE
- **Shielding:** Silver-coated copper braid, 92% coverage
- **Jacket:** FEP, white (laser markable)

ELECTRICAL

- **Standard Impedance:** 110 +6/-4 ohms
- **Crosstalk (min.):** 26 dB, 1 to 500 MHz
- **Capacitance (max):** 13 pF/ft at 1 kHz

- **Time Delay (max):** 1.31 ns/ft
- **Time Delay Skew between Pairs (max.):** 400 ps/4.5 m
- **Velocity of Propagation (nom.):** 83%

STANDARDS/SPECIFICATIONS

- **IEEE 1394B for Military and Aerospace Vehicles:**
SAE AS5643
- **Environmental Performance Testing:** WC 27500
- **Smoke Density and Toxicity:** BSS 7238 and 7239
- **Flammability:** FAR Part 25, Appendix F, Part 1, and AS22759
- **TE Product Specification:** 1200/1400

ENVIRONMENTAL

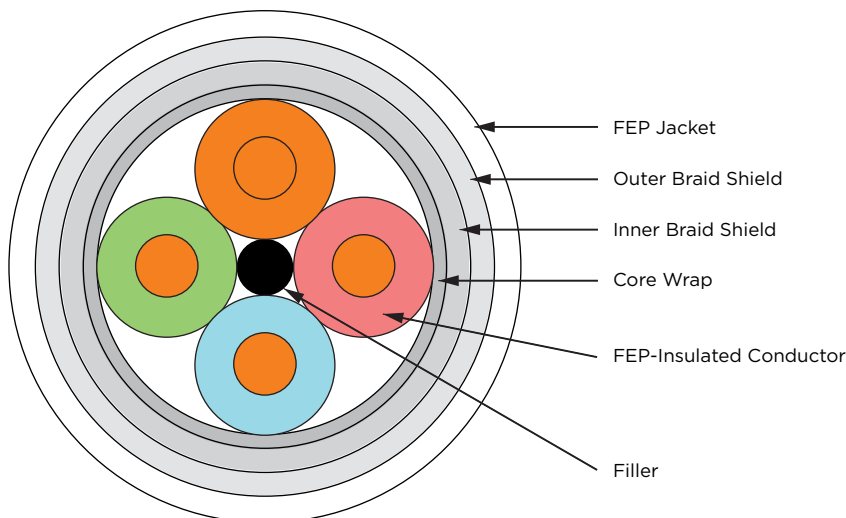
- **Temperature Range:** -55°C to 200°C

Part Numbers

No. of Conductors	Conductor Size	Shielding	Jacket OD, Nom.	Part No.
4	26 AWG	Double Braid	0.156	3EQ-26C422-32M
4	24 AWG	Double Braid	0.188	3EQ-24C422-32M
4	22 AWG	Double Braid	0.218	3EQ-22C222-32M

For other constructions, including power wires, please consult TE.

Typical Configuration



te.com/ieee1394

© 2016 TE Connectivity Ltd. family of companies. All Rights Reserved.

1-1773889-2 09/16

Raychem, TE, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies.

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE Connectivity (TE) has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free, or any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice.

Consult TE for the latest dimensions and design specifications.

North America +1 800 522 6752 • EMEA +800 0440 5100 • Asia Pacific +86 400 820 6015 • Japan 044 844 8180 • Visit te.com for additional country contacts.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Multi-Conductor Cables](#) category:

Click to view products by [TE Connectivity](#) manufacturer:

Other Similar products are found below :

[89182-010-1000](#) [89705-008-500](#) [6000FE-877-1000](#) [CS2885-000](#) [M27500-20SP2S23](#) [6300FE-877-U1000](#) [6309UE-877-1000](#) [M3905-BK005](#)
[6502FE 8771000](#) [6541PA-008-U1000](#) [CV6807-000](#) [CW9530-000](#) [CX6543-000](#) [CXA-0066-20-4-9CS2973](#) [CXA-0078-16-1-9CS2405](#) [CXA-](#)
[0078-22-4-9CS2405](#) [CXA-0078-24-4-9CS2405](#) [CXA-0140-16-6/9-9CS2405](#) [CY0660-000](#) [720451-000](#) [752687-000](#) [768146-000](#) [773159-000](#)
[82841-877-5000](#) [83318E-009-500](#) [8348-060-500](#) [83559-002-1000](#) [83653-002-5000](#) [83659-002-1000](#) [83709-002-1000](#) [8404-060-500](#) [8469](#)
[060100](#) [858171-000](#) [8628-060-500](#) [868361-001](#) [8730-060-1000](#) [8737-060-U1000](#) [8747-060-100](#) [8747-060-1000](#) [8769-060-1000](#) [8775-060-](#)
[500](#) [8780-060-1000](#) [8782-001-U1000](#) [88444-002-1000](#) [9159-060-500](#) [939870-000](#) [9423 060U500](#) [9444 060U1000](#) [9497 0001000](#) [9515-060-](#)
[1000](#)