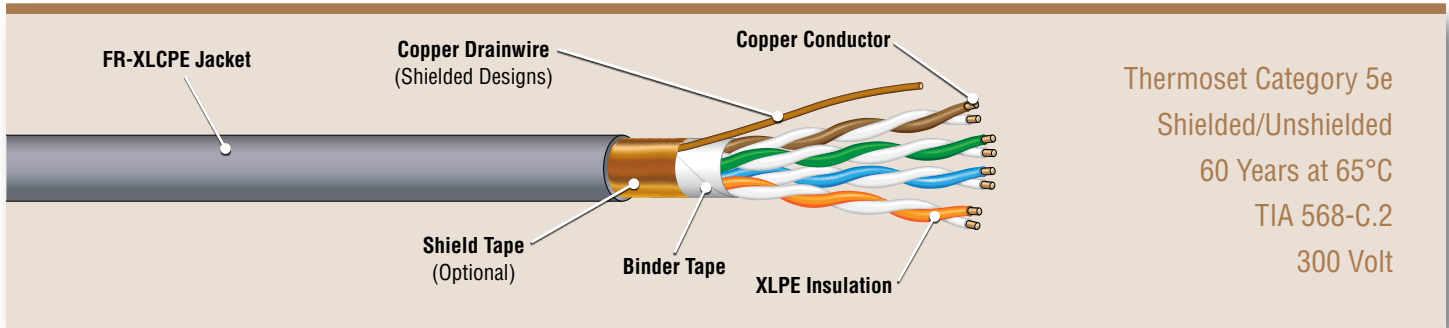


# CAT-RAD<sup>®</sup> 5e Communications Cable



## Features

- Shielded or Unshielded
- Thermoset insulation and jacket for enhanced thermal stability
- Extremely flame retardant
- Radiation resistant
- Specially formulated insulation for superior long term water resistance
- Full traceability
- Excellent mechanical properties
- Does not contain PVC or Fluoropolymers
- Mates with RJ-45 jack
- Can be used for data, voice, power over ethernet (to 48 volts), security, audio-visual, access control, and similar applications.

## Scope

CAT-RAD<sup>®</sup> 5e cable is a thermoset nuclear grade category 5e communications cable designed specifically for applications in nuclear plants and like environments. It offers proven support for gigabit ethernet applications and broadband video.

CAT-RAD<sup>®</sup> 5e cable is intended for use in harsh and demanding areas offering radiation resistance and 60 years of life at 65°C.

## Performance Standards

- ETL qualified to TIA 568-C.2
- 10 CFR 50 Appendix B quality assurance program
- Insulation and jacket in accordance with ICEA standards
- IEEE 383 RG 1.131 70,000 BTU/hr vertical tray flame test
- IEEE 1202 70,000 BTU/hr vertical tray flame test

## Construction

**Conductor:** Annealed solid 24 AWG bare copper to ASTM B3

**Insulation:** Proprietary nuclear qualified cross linked polyethylene (XLPE)

**Circuit ID:** Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown

**Assembly:** 4 pairs cabled

**Binder Tape:** Flame retardant binder

**Shield/Drainwire:** Copper/Polyester foil with 24 AWG drainwire (shielded designs only)

**Jacket:** Proprietary thermoset material

Type	Product Code	OD"	Weight (Lbs/M')
Unshielded	FD08024-500	0.23	28
Shielded	FD08024-550	0.29	37



Marmon Engineered Wire & Cable LLC  
A Berkshire Hathaway Company