

2 Core Fire Alarm Cable



Construction

Conductor: Plain annealed copper Class 1

Insulation: PVC

Shielding: Aluminum/Polyester Foil (100% Coverage).

Drain Wire: Tinned Copper (provides continuous ground).

Outer Jacket: Flame-Retardant PVC (Polyvinyl Chloride).

Color: Red

Applications

Engineered for critical life-safety systems, this 2-core cable is designed for the interconnection of fire protective signaling circuits. It is suitable for connecting smoke detectors, heat detectors, pull stations, strobes, and sirens. The aluminum foil shielding eliminates electromagnetic interference (EMI), ensuring signal integrity in electrically noisy environments. Compliant with NEC Article 760, it is ideal for riser shafts (floor-to-floor) and general horizontal wiring in commercial and residential buildings.

Standards

UL Standard: UL 1424 (Power-Limited Fire Alarm Circuits).

Flame Rating:

Type FPLR: UL 1666 (Riser Rated) - Standard.

Type FPLP: NFPA 262 (Plenum Rated) - Optional upon request.

NEC Code: NEC Article 760.

Environmental: RoHS 3 & REACH Compliant.



Specification

Related Voltage	450/750V
Temperature Range	-20 to 75°C
Permissible short circuit temperature at the conductor	+160°C (Short circuit duration max. 5 s)
Minimum bending radius	10x

Technical Data (64/110kV)

No.of coresxNominal cross section (mm ²)	Nominal thickness of conductor (mm)	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Outer Diameter	Maximum Conductor Resistance at 20°C (/Km)	
					Bare Copper	Tinned Copper
2 x 25AWG	0.45	0.30	0.58	3.6±0.3	111	115
2 x 18AWG	1.02	0.38	0.58	5.2±0.3	21.4	22.2
2 x 16AWG	1.29	0.38	0.58	5.8±0.3	13.5	14.0
2 x 14AWG	1.63	0.51	0.58	7.1±0.3	8.45	8.78