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Fire Resistance Cable

EN 50200

Low Smoke Zero Halogen Compound, 120min Fire rated (PH120)

Sold / Stranded



MODEL

300/500 V, Fire Resistant Cables, 2 Core 1.5mm² to 2 Core 2.5mm², CU/Silicone/Fiber Glass Tape / CU Drain wire / AL Foil Screened / Polyolefin Sheathed with Class 1 Conductor.

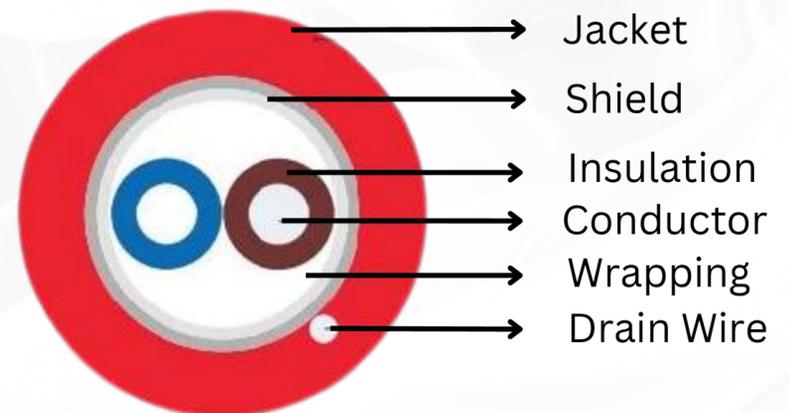
PRODUCT OVERVIEW

The Agni UL EN50200 Fire-Resistant Cable is specifically designed for signal and control transmission in environments where maximum fire safety is required. It is ideal for applications such as:

- Emergency lighting and alarm systems
- Automatic fire detection and suppression systems
- Fire-resistant automatic door mechanisms
- Ventilation and air-conditioning systems
- Emergency telephone and communication networks

LAYER COMPOSITION

- Conductor: High-quality plain annealed copper
- Insulation: Fire-resistant silicone rubber
- Shielding: PET Tape/Aluminum Foil with Copper Drain Wire
- Outer Sheath: FR-LSZH



KEY FEATURES

- Fire-Resistant Performance: Designed to maintain circuit integrity under fire conditions for up to 120 minutes
- Durability: Suitable for fixed indoor installations in dry or wet environments.
- Installation Versatility: Can be installed on platforms, pipes, conduits, and similar systems.

STANDARDS COMPLIANCE

- EN 50200:2015 - Fire resistance test for unprotected small cables
- EN 61034-2:2005+A1:2013 - Measurement of smoke density in cables during fire exposure
- EN 60754-1:2014 - Halogen-free gas emissions in cable insulation and sheath materials

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When fire safety is non-negotiable, Trust AAGNI to protect what matters most.

PRODUCT VARIANTS

The Aagni Fire-Resistant Cable is available in the following configurations:

- EN 50200 PH120 2x1.0mm²
- EN 50200 PH120 2x1.5mm²
- EN 50200 PH120 2x2.5mm²
- EN 50200 PH120 3x1.0mm²
- EN 50200 PH120 3x1.5mm²
- EN 50200 PH120 3x2.5mm²



Features	Values	Rules
Conductors	annealed red copper cl. 1	CEI EN 60228 (Table 9)
Insulation	ceramifiable silicone rubber	
Cores colour	(blue-red) - (yellow-grey) - (green-brown) - (white-black)	DIN VDE 815
Flame protection	glass-fibre tape thickness 0,12 mm	
Drain wire	annealed tinned copper	
Screen	Al/Pet tape thickness 9/23 µm covering > 110%	
Sheath	LSZH compound M1 quality	CEI EN 50363
Sheath colour	red RAL 3000 / white RAL 9016	
Fire retardant		CEI EN 60332-3-24
Flame retardant		CEI EN 60332-1-2
Halogen free	(< 0,5 mg/g - 0,5%)	CEI EN 50267-2-1/2 - IEC 60754-1/2
Low smoke emission	(Trasmittance > 60%)	CEI EN 61034-2
Fire resistant	duration 120 min. at temperature of 830 °C. (- 0 + + 40 °C)	CEI EN 50200
Fire resistant	(E30/E60)	DIN VDE 4102-12
Fire resistant	duration 180 min. at temperature of 750 °C FE180	IEC 60331-21 - VDE 472-814
DC resistance	according to	CEI EN 60228 (Table 9)
Rated voltage U ₀ /U	300/500 V	
Max voltage	550 V	
Testing voltage	2 kV	
Max working temperature	90 °C	
Max conductor temperature	180 °C	
Short circuit temperature	350 °C	
Min. installation temperature	0 °C	
Bending radius	Ø x 10	