Industrial Cables

AMC We simply connect

AMC LOW SMOKE

Low Smoke Zero Halogen Cables for Fire-Safe Infrastructure

AMC Low Smoke LSZH cables are developed for environments where fire behaviour, air quality and occupant safety cannot be compromised. Using advanced low-smoke, zero-halogen thermoplastic compounds, they significantly reduce toxic emissions and maintain visibility during fire conditions. This high level of performance makes AMC Low Smoke cables an assured choice for public buildings, transport systems, data centres, tunnels and other enclosed spaces where corrosive smoke and halogen gases present a serious risk to people, electronic equipment and essential infrastructure.

The robust cable construction ensures consistent performance in fire conditions and helps safeguard sensitive electronic systems by limiting corrosive gas formation. These LSZH properties support safer evacuation and reduce long-term damage to critical assets, particularly in locations with high occupancy or essential operational functions. AMC Low Smoke cables provide dependable performance across power and control systems that require enhanced fire-safety characteristics and reliable operation under challenging conditions.

Features

Advanced LSZH compound insulation reduces smoke density and eliminates halogen gas emissions.

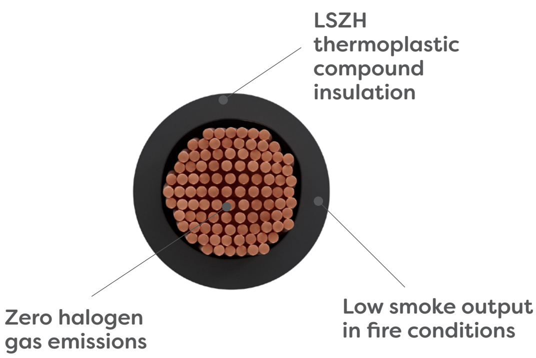
Improved visibility in fire conditions supports safer evacuation and emergency response.

Non-corrosive fire behaviour protects sensitive electronics and infrastructure assets.

Suitable for enclosed, high-occupancy public and commercial environments.

Flame-retardant materials designed to limit fire propagation.

Stable performance across critical power and control circuits.



RoHS COMPLIANT
UK MANUFACTURED
REACH COMPLIANCE
nqa ISO 9001 ISO 14001 ISO 45001 INTEGRATED MANAGEMENT
UKAS MANAGEMENT SYSTEMS 0015

AMC LOW SMOKE

Key reasons to choose AMC Low Smoke

Safety in enclosed spaces

Our Low Smoke cables produce very low smoke and zero halogen emissions, helping maintain clearer air and visibility in the early stages of a fire. These characteristics are essential in enclosed or high-occupancy environments where safe evacuation and reduced exposure to hazardous gases are key operational and regulatory requirements.

Protection of electronic systems

By eliminating halogenated gases, AMC Low Smoke cables significantly reduce the corrosive effects generated during fire conditions. This protects sensitive electronic systems in data centres, control rooms and other critical facilities where maintaining equipment integrity and operational continuity is vital to infrastructure performance and safety.

Lower toxicity

The advanced LSZH compounds used in our Low Smoke cables substantially reduce toxic emissions compared with standard PVC alternatives. This supports safer conditions for occupants and emergency personnel, particularly in buildings and transport environments where strict fire-safety expectations and air-quality considerations are essential.

Designed for critical infrastructure

AMC Low Smoke cables deliver reliable performance across essential power and control systems in public buildings, transport networks and other high-dependency infrastructure. Their fire-safe construction enhances safety standards, protects valuable assets and supports operational resilience where maintaining functionality during fire conditions is a fundamental requirement.

Benefits

Maintains clearer air quality during fire events.

Reduces corrosive damage to sensitive electronics.

Lower smoke output supports safer evacuation.

Zero halogen emissions enhance long-term infrastructure protection.

Suitable public and enclosed environments requiring enhanced fire safety.

UV-resistant outer sheath supports long-term durability in exposed marine and offshore environments.

Typical Applications

- PUBLIC BUILDINGS
- SWITCHGEAR & SWITCHBOARDS
- APPLIANCES
- DATA CENTRES
- DISTRIBUTION BOARDS & CABINETS
- TUNNELS AND ENCLOSED WALKWAYS
- ENVIRONMENTS REQUIRING HALOGEN-FREE, LOW-TOXICITY PERFORMANCE

Part No	Conductor Specification (mm)	Conductor Cross Section (mm^2)	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Maximum Resistance Per Metre at 20°C (Ohms)	Colour	Reel Sizes (Metres)
OH1	32/0.20	1	2.62	16.5	0.0185	Single core cables are available in the following colours: (R) RED, (B) BLACK, (G) GREEN, (LG) LIGHT GREEN, (U) BLUE, (Y) YELLOW, (N) BROWN, (P) PURPLE, (K) PINK, (S) SLATE GREY, (W) WHITE, (O) ORANGE, (GY) GREEN / YELLOW. Any combination of two of the above colours can be made available upon request.	100
OH2.5	35/0.30	2.5	3.72	29	0.0076		
OH4	56/0.30	4	4.25	39	0.00471		
OH6	84/0.30	6	4.82	50	0.00314		
OH10	80/0.40	10	6.19	70	0.00182		
OH16	126/0.40	16	7.95	110	0.00116		

The conductor specifications shown are representative configurations; actual cable strand may differ slightly, but will meet the resistance values shown. Nominal current amperage ratings are provided as a guide only, and can vary depending on the application, condition and environmental factors. If in doubt, please consult a qualified electrician.

* Indicates values of the sheathing compounds not the finished cable.