SHIELD®

TRUSTED WORLDWIDE

PREMIUM
FIRE RESISTANT CABLE

TESTED TO ENDURE 180 MINUTES OF FIRE EXPOSURE

MADE IN
UAE

Specially Designed For Fire Alarm & Emergency Lighting System

Our fire-resistant cables are engineered to ensure the uninterrupted functionality of emergency systems during critical situations where reliability is essential. Certified to maintain circuit integrity and performance for up to **120 minutes & 180 minutes of fire conditions** under EN 50200:2015 (PH120) & BS 6387 Cat. C respectively. These cables provide peace of mind that fire alarms, emergency lighting, and other vital systems will remain operational when needed most. Designed to **withstand extreme temperatures of up to 950°C**, as well as mechanical stress and environmental factors, they offer exceptional durability and reliability. **Tested and certified by UL** to meet the BS 6387 Cat. CWZ, EN 50200:2015 (PH120) & Annex E Fire Performance test for circuit integrity, our cables are the trusted choice for ensuring the safety and performance of emergency circuits. In life-threatening situations, they deliver the reliability needed to keep critical systems functioning.

UL CERTIFIED
SAFETY
E545763

FEATURES

- Designed with Low Smoke Zero Halogen Emission Materials
- Available in STRANDED & SOLID Core Conductors
- Tested to 180 Minutes of Fire Resistance at 950°C
- High Level Data Protection
- All in one - Easy to Strip Outer Sheath
- No Additional Fiber Wraps
- No mica tape on conductors
- No additional core separators to remove
- Reduced Installation time and costs
- Easy to install and Superb Working Flexibility

TEST STANDARDS
BS EN 50200:2015 (PH 120) 830°C fire and mechanical impact
BS EN 50200:2015 + Annex E 830°C - 30 min. (15 min. fire & water spray + mechanical impact for every 5 min.)
BS 6387 Cat. CWZ

LOW SMOKE, ZERO HALOGEN: SAFER CABLES FOR SAFER SPACES

Our Low Smoke Zero Halogen (LSZH) Fire Resistant cables are engineered to provide optimal performance while prioritizing the safety of people and property minimizing the release of toxic and corrosive gases, ensuring cleaner air and better visibility for safe evacuation. The low smoke emissions reduce the risk of smoke inhalation, while the absence of halogen content prevents harmful acidic byproducts that can damage sensitive equipment and structures.

ENSURING CIRCUIT INTEGRITY IN CRITICAL INSTALLATIONS

Ideal for use in hospitals, commercial buildings, industrial facilities, and transportation systems, LSZH cables meet stringent fire safety and environmental standards, making them the perfect choice for modern safety-conscious projects.

Fire Resistant Cable

Premium - Solid Conductor Core

UL CERTIFIED
SAFETY
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APPLICATION

These special multicore cables are used for fire resistant and circuit integrity, and essentially to prevent life from smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.

CONSTRUCTION

Formation:
2 Cores
Section:
1.5 mm² , 2.5 mm²
Conductor:
Plain annealed copper wire, solid acc. to EN 60228
Insulation:
Special mix Silicon Rubber type EI2 in acc. to BS EN 50363-1
Colour Code:
Blue, Brown

Collective Screen:
0.036 mm Aluminium / PET tape over copper drain wire
Outer Sheath:
Low Smoke, Halogen Free - type LTS3 in acc.
To BS 7655-6.1
Colour Outer Sheath:
Red or White

IDENTIFICATION OF CORES

2 Cores :

TEST STANDARDS

EN 50200:2015 PH120
EN 50200:2015 ANNEX E(30')
BS 6387 Cat. CWZ

ELECTRICAL DATA

Conductor Cross-section	Nom.	1.5 mm²	2.5 mm²
DC Resistance per core at 20° C	max Ω/km	12.6	7.7
Insulation Resistance at 20° C	min MΩ*km	200	200
Mutual Capacitance	max nF/km	120	140
Inductance	max mH/km	1	1
Test Voltage - Core/Core	V	2000	2000
Test Voltage - Core/Screen	V	2000	2000
Cable Diameter	mm	7.6	8.65
Operating Voltage	V	300/500	300/500
During Installation		-5° C up to +50°C	-5° C up to +50°C
Fixed Installation		-40° C up to +75°C	-40° C up to +75°C
Insulation Operation		-40° C up to +180°C	-40° C up to +180°C
Min. Bending Radius	mm	8 x cable diameter	8 x cable diameter

CHARACTERISTICS


Fire Resistant

Min. Bending Radius
8 x cable diameter


Low Smoke
Halogen Free

Fire Resistant Cable

Premium - Stranded Conductor Core

UL CERTIFIED
SAFETY
E545763

APPLICATION

These special multicore cables are used for fire resistant and circuit integrity, and essentially to prevent life from smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.

CONSTRUCTION

Formation:
2 Cores
Section:
1.5 mm^2 , 2.5 mm^2
Conductor:
Plain annealed copper wire, Strand acc. to EN 60228
Insulation:
Special mix Silicon Rubber type EI2 in acc. to BS EN 50363-1
Colour Code:
Blue, Brown

Collective Screen:
0.036 mm Aluminium / PET tape over copper drain wire
Outer Sheath:
Low Smoke, Halogen Free - type LTS3 in acc.
To BS 7655-6.1
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IDENTIFICATION OF CORES

2 Cores :

TEST STANDARDS

EN 50200:2015 PH120
EN 50200:2015 ANNEX E(30')
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ELECTRICAL DATA

Conductor Cross-section	Nom.	1.5 mm^2	2.5 mm^2
DC Resistance per core at 20° C	max Ω/km	12.6	7.7
Insulation Resistance at 20° C	min MΩ*km	200	200
Mutual Capacitance	max nF/km	120	140
Inductance	max mH/km	1	1
Test Voltage - Core/Core	V	2000	2000
Test Voltage - Core/Screen	V	2000	2000
Cable Diameter	mm	8.05	9
Operating Voltage	V	300/500	300/500
During Installation		-5° C up to +50°C	-5° C up to +50°C
Fixed Installation		-40° C up to +75°C	-40° C up to +75°C
Insulation Operation		-40° C up to +180°C	-40° C up to +180°C
Min. Bending Radius	mm	8 x cable diameter	8 x cable diameter

CHARACTERISTICS

Fire Resistant

Min. Bending Radius
8 x cable diameter

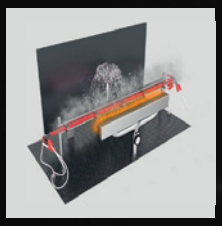
Low Smoke
Halogen Free

Standards For Fire Test

FIRE RESISTANCE (Cat. C)

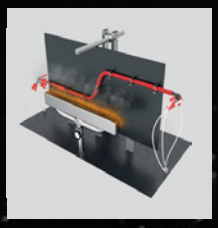
The cable is exposed to fire at the 950˚C for 180 minutes.

FIRE AND WATER RESISTANCE (Cat. W)



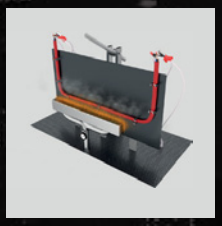
The cable is exposed for 15 minutes to fire at 650˚C and for additional 15 minutes to fire and water spray.

FIRE RESISTANCE WITH MECHANICAL SHOCKS (Cat. Z)



The cable is mounted on a vertical panel and shocked with a steel bar for 15 minutes while submitted to the action of a fire.

FIRE RESISTANCE (EN 50200 PH 120-90-60-30-15)



This test is carried out to verify the circuit integrity of cables exposed to fire at 830˚C and mechanical shocks.

FIRE RESISTANCE BS EN 50200 Annex E

This test is carried out to verify circuit integrity during a fire. the cable is exposed to a flame at 830˚C and mechanical shocks for 15 minutes and additional 15 minutes to fire, mechanical shocks and water spray.

ORDERING INFORMATION

No. of Core	Conductor Size	Conductor Type	Outer Sheath	Ordering Part No.
2 core	1.5 mm^2	Solid	Red	NFSD215R
2 core	2.5 mm^2	Solid	Red	NFSD225R
2 core	1.5 mm^2	Solid	White	NFSD215W
2 core	2.5 mm^2	Solid	White	NFSD225W
2 core	1.5 mm^2	Stranded	Red	NFST215R
2 core	2.5 mm^2	Stranded	Red	NFST225R
2 core	1.5 mm^2	Stranded	White	NFST215W
2 core	2.5 mm^2	Stranded	White	NFST225W

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