

Data Cabling System

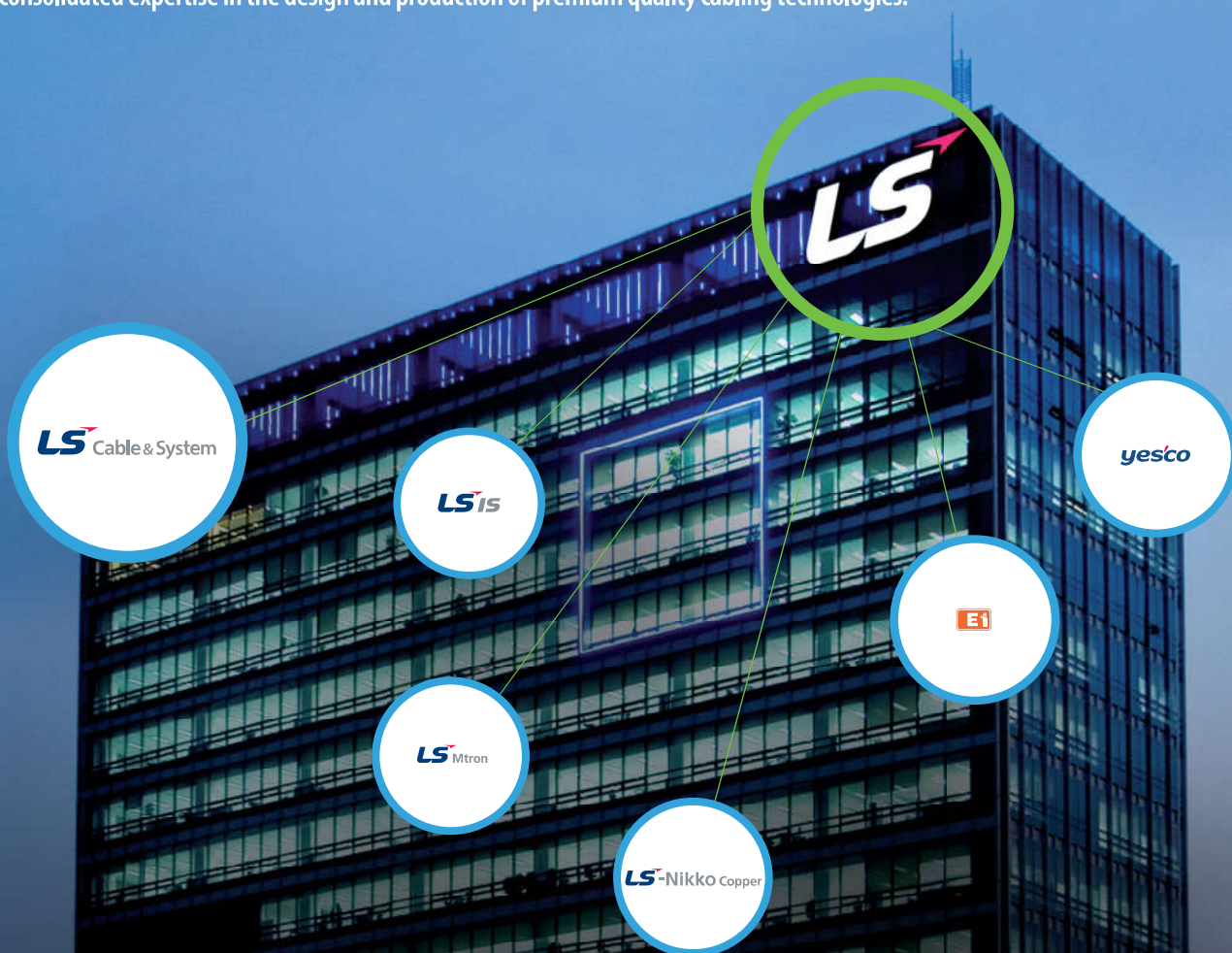


About LS Cable & System

LS spun off from LG in 2003 as a group specializing in the Electrics, Electronics, Energy, and Material.

LS consists of about 40 affiliates including LS Cable & System, LSIS, LS-Nikko Copper, LS Mtron, Gaon Cable, E1 and Yesco.

A leading player in the global cable industry, with over half a century of experience as a manufacturer, providing consolidated expertise in the design and production of premium quality cabling technologies.



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THE WORLD BEST CABLE SOLUTION LEADER

LS Cable & System supplies various cables and materials used for power grids and communication networks around the world across all industries providing its top class technology and excellent quality. The company has also developed state of the art products, such as superconductors, HVDC and submarine cables that will lead the future energy industry.

LS spun off from LG in 2003 as a group specializing in electronics, electrical systems, energy and materials.



LS Cable & System

Transmission Cable
Distribution Cable
Submarine Cable
Telecommunication Cable
Industrial Cable
Industrial Material

LSELECTRIC

Electric &
Automatic Equipments

LS-Nikko Copper

Copper Refinement

LSMtron

Mechanical &
Electronic Parts

yesco

LNG

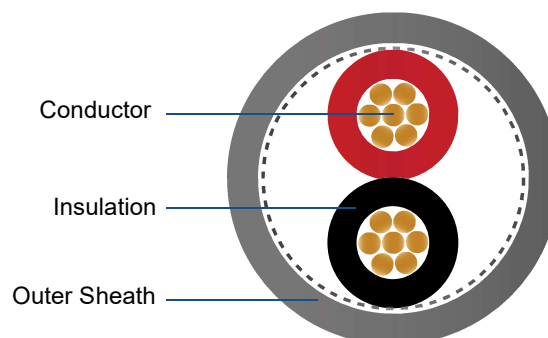


LPG

G&ON

Power &
Communication
Cables

UNSHIELDED DATA CABLE



Description

- Multipair twisted cable
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- Public Address, BMS and Fire Alarm systems
- Optimized for Analogue Audio system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation:** PVC (acc. to EN 50290-2-21) or PE (acc. to EN 50290-2-23) or XLPE (acc. to EN 50290-2-29) or LSZH (acc. to EN 50290-2-27). *Cores are twisted together in pairs.*
- **Outer sheath:** PVC or FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Grey color.

UNSHIELDED DATA CABLE

Part Number



X - Core

02 : 02 cores
04 : 04 cores
06 : 06 cores
... : ...
50 : 50 cores

Y - Conductor Size

050 : 0.50 mm²
075 : 0.75 mm²
100 : 1.00 mm²
150 : 1.50 mm²
250 : 2.50 mm²

Z - Type Conductor

Blank : Class 2
S : Class 5
T : Tinned Copper

A - Insulation

V : PVC
E : PE
X : XLPE
Z : LSZH

B - Outer Sheath

V : PVC
F : FR-PVC
Z : LSZH

- Peak Voltage

Blank : 300/500V
H : 600/1000V

* Other conductor sizes are available upon request: 125 (1.25mm²), 200 (2.00mm²), 14A (14AWG), 16A (16AWG), 18A (18AWG), 22A (22AWG), 24A (24AWG), ... etc.

Core Identification

02 cores: Black/ Red
> 02 cores: Color or Numbered
(Available upon request)

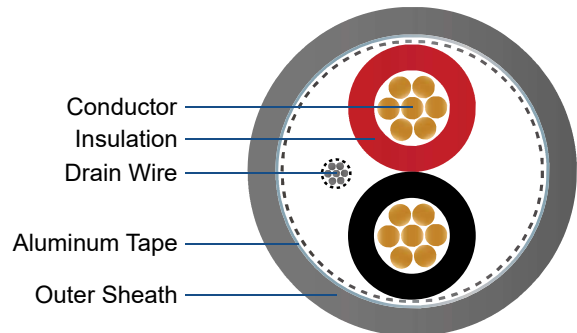
AWG to mm²

The conductor is metrically (mm²) or American Wire Gauge (AWG) constructed.
The AWG to mm² conversion is approximate and purely informative.

AWG	mm ²
20	0.5
18	0.75
17	1.0
16	1.5

AWG	mm ²
14	2.5
12	4
10	6
8	10

SHIELDED DATA CABLE



Description

- Multipair twisted cable with Aluminum Mylar Tape Shield and Drain wire
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- BMS, Fire Alarm systems
- Optimized for Public Address system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation:** PVC (acc. to EN 50290-2-21) or PE (acc. to EN 50290-2-23) or XLPE (acc. to EN 50290-2-29) or LSZH (acc. to EN 50290-2-27). *Cores are twisted together in pairs.*
- **Overall Screen:** Aluminum Mylar tape over tinned copper stranded drain wire.
- **Outer sheath:** PVC or FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Grey color.

SHIELDED DATA CABLE

Part Number



X - Core

02 : 02 cores
04 : 04 cores
06 : 06 cores
... : ...
50 : 50 cores

Y - Conductor Size

050 : 0.50 mm²
075 : 0.75 mm²
100 : 1.00 mm²
150 : 1.50 mm²
250 : 2.50 mm²

Z - Type Conductor

Blank : Class 2
S : Class 5
T : Tinned Copper

A - Insulation

V : PVC
E : PE
X : XLPE
Z : LSZH

B - Outer Sheath

V : PVC
F : FR-PVC
Z : LSZH

- Peak Voltage

Blank : 300/500V
H : 600/1000V

* Other conductor sizes are available upon request: 125 (1.25mm²), 200 (2.00mm²), 14A (14AWG), 16A (16AWG), 18A (18AWG), 22A (22AWG), 24A (24AWG), ... etc.

Core Identification

02 cores: Black/ Red
> 02 cores: Color or Numbered
(Available upon request)

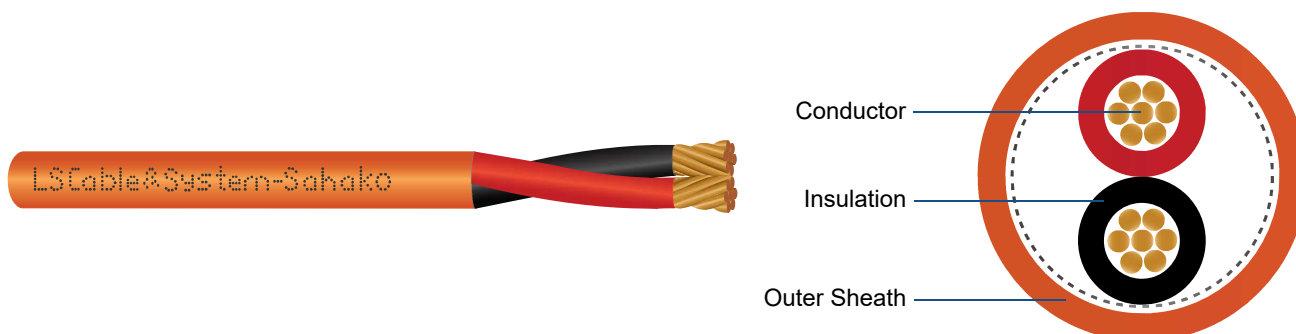
AWG to mm²

The conductor is metrically (mm²) or American Wire Gauge (AWG) constructed.
The AWG to mm² conversion is approximate and purely informative.

AWG	mm ²
20	0.5
18	0.75
17	1.0
16	1.5

AWG	mm ²
14	2.5
12	4
10	6
8	10

UNSHIELDED FLAME RETARDANT DATA CABLE



Description

- Multipair twisted cable
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- BMS, Public Address systems
- Optimized for Fire Alarm system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation:** PVC (acc. to EN 50290-2-21) or PE (acc. to EN 50290-2-23) or XLPE (acc. to EN 50290-2-29) or LSZH (acc. to EN 50290-2-27). *Cores are twisted together in pairs.*
- **Outer sheath:** FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Orange color.

UNSHIELDED FLAME RETARDANT DATA CABLE

Tests

- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS	UFRT	X	Y	Z	A	B	#
X - Core		Y - Conductor Size		Z - Type Conductor		A - Insulation	
02 : 02 cores		050 : 0.50 mm ²		Blank : Class 2		V : PVC	
04 : 04 cores		075 : 0.75 mm ²		S : Class 5		E : PE	
06 : 06 cores		100 : 1.00 mm ²		T : Tinned Copper		X : XLPE	
... : ...		150 : 1.50 mm ²				Z : LSZH	
50 : 50 cores		250 : 2.50 mm ²				B - Outer Sheath	
						F : FR-PVC	
						Z : LSZH	
						# - Peak Voltage	
						Blank : 300/500V	
						H : 600/1000V	

* Other conductor sizes are available upon request: 125 (1.25mm²), 200 (2.00mm²), 14A (14AWG), 16A (16AWG), 18A (18AWG), 22A (22AWG), 24A (24AWG), ... etc.

Core Identification

02 cores: Black/ Red
> 02 cores: Color or Numbered
(Available upon request)

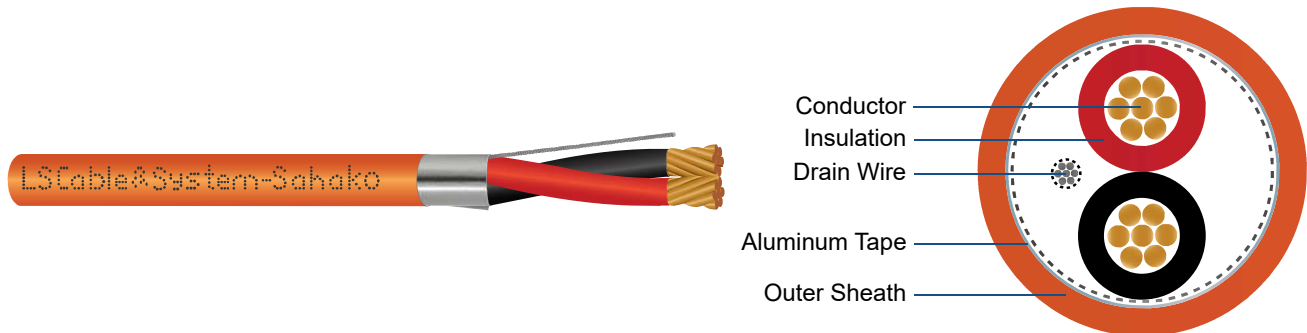
AWG to mm²

The conductor is metrically (mm²) or American Wire Gauge (AWG) constructed.
The AWG to mm² conversion is approximate and purely informative.

AWG	mm ²
20	0.5
18	0.75
17	1.0
16	1.5

AWG	mm ²
14	2.5
12	4
10	6
8	10

SHIELDED FLAME RETARDANT DATA CABLE



Description

- Multipair twisted cable with Aluminum Mylar Tape Shield and Drain wire
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- BMS, Public Address systems
- Optimized for Fire Alarm system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation:** PVC (acc. to EN 50290-2-21) or PE (acc. to EN 50290-2-23) or XLPE (acc. to EN 50290-2-29) or LSZH (acc. to EN 50290-2-27). *Cores are twisted together in pairs.*
- **Overall Screen:** Aluminum Mylar tape over tinned copper stranded drain wire.
- **Outer sheath:** FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Orange color.

SHIELDED FLAME RETARDANT DATA CABLE

Tests

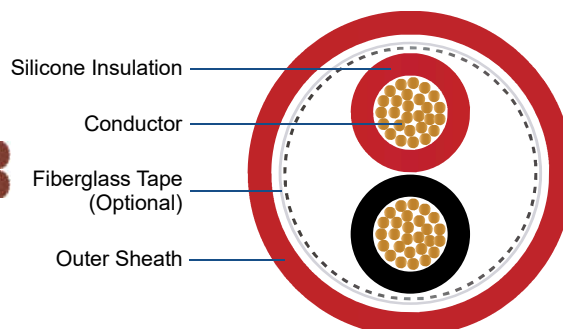
- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS - SFRT - X - Y Z - A B - #				
X - Core 02 : 02 cores 04 : 04 cores 06 : 06 cores ... : ... 50 : 50 cores	Y - Conductor Size 050 : 0.50 mm ² 075 : 0.75 mm ² 100 : 1.00 mm ² 150 : 1.50 mm ² 250 : 2.50 mm ²	Z - Type Conductor Blank : Class 2 S : Class 5 T : Tinned Copper	A - Insulation V : PVC E : PE X : XLPE Z : LSZH B - Outer Sheath F : FR-PVC Z : LSZH	# - Peak Voltage Blank : 300/500V H : 600/1000V

UNSHIELDED FIRE RESISTANT DATA CABLE

Silicone Fire Barrier



Description

- Multipair twisted cable with silicone fire barrier
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- Public Address, Fire Alarm systems
- Optimized for BMS system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation (fire barrier):** Cross-linked ceramic forming polymer (Silicone) compound.
Cores are twisted together in pairs.
- **Outer sheath:** PVC or FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Red color.

UNSHIELDED FIRE RESISTANT DATA CABLE

Silicone Fire Barrier

Tests

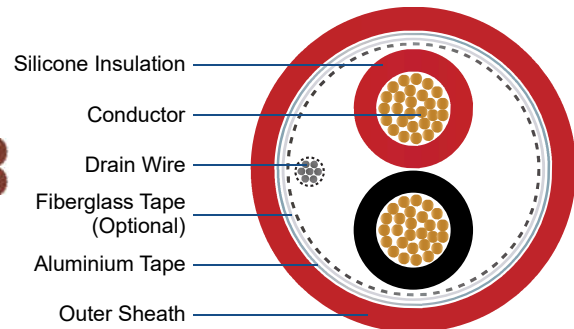
- Fire resistant according to IEC 60331-21
- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS	-	UFRS	-	X	-	Y	Z	-	S	B	-	#	-	#
				X - Core			Y - Conductor Size			B - Outer Sheath			# - Fire Resistant	# - Peak Voltage
				02 : 02 cores			050 : 0.50 mm ²			V : PVC			Blank : IEC 60331-21	Blank : 300/500V
				04 : 04 cores			075 : 0.75 mm ²			F : FR-PVC			C : BS 6387 Cat C	H : 600/1000V
				06 : 06 cores			100 : 1.00 mm ²			Z : LSZH			W : BS 6387 Cat W	
				... : ...			150 : 1.50 mm ²						Z : BS 6387 Cat Z	
				50 : 50 cores			250 : 2.50 mm ²						15 : PH15	
													30 : PH30	
													60 : PH60	
													90 : PH90	
													120 : PH120	

SHIELDED FIRE RESISTANT DATA CABLE

Silicone Fire Barrier



Description

- Multipair twisted cable with silicone fire barrier, Aluminum Mylar Tape Shield and Drain wire
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- Public Address, Fire Alarm systems
- Optimized for BMS system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation (fire barrier):** Cross-linked ceramic forming polymer (Silicone) compound.
Cores are twisted together in pairs.
- **Overall Screen:** Aluminum Mylar tape over tinned copper stranded drain wire.
- **Outer sheath:** PVC or FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Red color.

SHIELDED FIRE RESISTANT DATA CABLE

Silicone Fire Barrier

Tests

- Fire resistant according to IEC 60331-21
- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS	-	SFRS	-	X	-	Y	Z	-	S	B	-	#	-	#
				X - Core			Y - Conductor Size			B - Outer Sheath			# - Fire Resistant	# - Peak Voltage
				02 : 02 cores 04 : 04 cores 06 : 06 cores ... : ... 50 : 50 cores			050 : 0.50 mm ² 075 : 0.75 mm ² 100 : 1.00 mm ² 150 : 1.50 mm ² 250 : 2.50 mm ²			V : PVC F : FR-PVC Z : LSZH			Blank : IEC 60331-21 C : BS 6387 Cat C W : BS 6387 Cat W Z : BS 6387 Cat Z 15 : PH15 30 : PH30 60 : PH60 90 : PH90 120 : PH120	Blank : 300/500V H : 600/1000V
								Z - Type Conductor						
								Blank : Class 2 S : Class 5 T : Tinned Copper						

* Other conductor sizes are available upon request: 125 (1.25mm²), 200 (2.00mm²), 14A (14AWG), 16A (16AWG), 18A (18AWG), 22A (22AWG), 24A (24AWG), ... etc.

Core Identification

02 cores: Black/ Red
> 02 cores: Color or Numbered
(Available upon request)

AWG to mm²

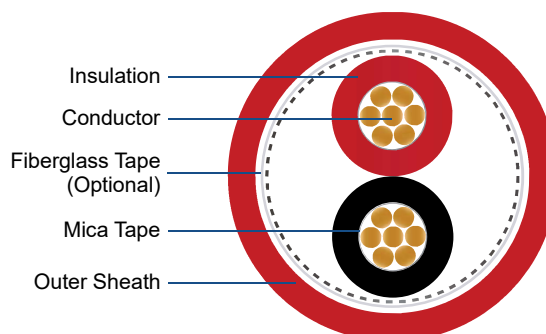
The conductor is metrically (mm²) or American Wire Gauge (AWG) constructed.
The AWG to mm² conversion is approximate and purely informative.

AWG	mm ²
20	0.5
18	0.75
17	1.0
16	1.5

AWG	mm ²
14	2.5
12	4
10	6
8	10

UNSHIELDED FIRE RESISTANT DATA CABLE

Mica Fire Barrier



Description

- Multipair twisted cable with Mica tape
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- BMS, Public Address systems
- Optimized for Fire Alarm system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Fire barrier:** MICA tape.
- **Core Insulation:** XLPE (acc. to EN 50290-2-29) or LSZH (acc. to EN 50290-2-27). *Cores are twisted together in pairs.*
- **Outer sheath:** FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Red color.

UNSHIELDED FIRE RESISTANT DATA CABLE

Mica Fire Barrier

Tests

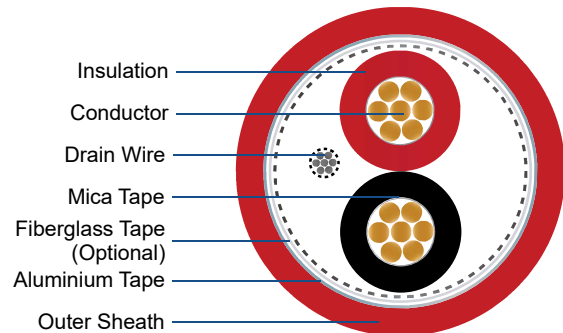
- Fire resistant according to IEC 60331-21 / BS 6387 (Cat. CWZ)
- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS	-	UFRS	-	X	-	Y	Z	-	A	B	-	#	-	#	

SHIELDED FIRE RESISTANT DATA CABLE

Mica Fire Barrier



Description

- Multipair twisted cable with Mica tape, Aluminum Mylar Tape Shield and Drain wire
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- BMS, Public Address systems
- Optimized for Fire Alarm system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Fire barrier:** MICA tape.
- **Core Insulation:** XLPE (acc. to EN 50290-2-29) or LSZH (acc. to EN 50290-2-27). *Cores are twisted together in pairs.*
- **Overall Screen:** Aluminum Mylar tape over tinned copper stranded drain wire.
- **Outer sheath:** FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Red color.

SHIELDED FIRE RESISTANT DATA CABLE

Mica Fire Barrier

Tests

- Fire resistant according to IEC 60331-21 / BS 6387 (Cat. CWZ)
- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS	-	SFRS	-	X	-	Y	Z	-	A	B	-	#	-	#	

* Other conductor sizes are available upon request: 125 (1.25mm²), 200 (2.00mm²), 14A (14AWG), 16A (16AWG), 18A (18AWG), 22A (22AWG), 24A (24AWG), ... etc.

Core Identification

02 cores: Black/ Red
> 02 cores: Color or Numbered
(Available upon request)

AWG to mm²

The conductor is metrically (mm²) or American Wire Gauge (AWG) constructed.
The AWG to mm² conversion is approximate and purely informative.

AWG	mm ²
20	0.5
18	0.75
17	1.0
16	1.5

AWG	mm ²
14	2.5
12	4
10	6
8	10



CERTIFICATE



This is to certify that

LS CABLE & SYSTEM VIETNAM CO., LTD.

Nhon Trach 2 - Loc Khang Industrial Zone,
Hiep Phuoc Town, Nhon Trach District,
Dong Nai Province,
Vietnam

has implemented and maintains a **Quality Management System**.

Scope:

Manufacturing of Copper Telecommunication Cables, Power Cables, Control Cables, Optical Fiber Cables and Busduct to Specification Agreed Upon with LS Cables & System, Ltd.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no.	50650011 QM15
Valid from	2021-10-05
Valid until	2024-10-04
Date of certification	2021-10-05



DQS GmbH

Markus Bleher
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Cert. Co. Ltd., Helios Tower- Tower B,
No 75 Tam Trinh Street, Mai Dong Ward, Hoang Mai District, Hanoi, Vietnam



CERTIFICATE



This is to certify that

LS CABLE & SYSTEM VIETNAM CO., LTD.

Nhon Trach 2 - Loc Khang Industrial Zone,
Hiep Phuoc Town, Nhon Trach District,
Dong Nai Province,
Vietnam

has implemented and maintains an **Environmental Management System**.

Scope:

Manufacturing of Copper Telecommunication Cables, Power Cables, Control Cables, Optical Fiber Cables and Busduct to Specification Agreed Upon with LS Cables & System, Ltd.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 14001 : 2015

Certificate registration no.	50650011 UM15
Valid from	2021-10-05
Valid until	2024-10-04
Date of certification	2021-10-05



DQS GmbH

Markus Bleher
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany
Administrative Office: DQS Cert. Co. Ltd., Helios Tower- Tower B,
No 75 Tam Trinh Street, Mai Dong Ward, Hoang Mai District, Hanoi, Vietnam



Test Report

Report No.: AJFS2208006326FF

Date: AUG.18, 2022 Page 1 of 3

SAHAKO ELECTRICAL SYSTEMS COMPANY LIMITED

116 D.1 STREET, HIM LAM NEW URBAN, TAN HUNG WARD, DISTRICT 7, HO CHI MINH CITY, VIETNAM

Product Description: SHIELDED FIRE RESISTANT DATA CABLE 2x1,5mm² – 600V/1000V

SGS Ref No.: GZES2208015104CO

Model Name: LS-SFRS-02-150-VF

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Test Requested:

BS 6387:2013, Test method for resistance to fire of cables required to maintain circuit integrity under fire conditions, Protocol C for resistance to fire alone.

Test Results: --- See attached sheet ---

Test Period:

Sample Receiving Date : AUG.05, 2022

Test Performing Date : AUG.05, 2022 TO AUG.11, 2022

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Allen Zou
Approved Signatory

scan to see the report



AJFS2208006326FF



SGS-CSTC Standards Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

Report No.: AJFS2208006326FF

Date: AUG.18, 2022

Page 2 of 3

I. Test conducted

Test was conducted in accordance with BS 6387:2013 Test method for resistance to fire of cables required to maintain circuit integrity under fire conditions, Protocol C for resistance to fire alone.

II. Test specimen

Description	Cable
Color	Red
Overall diameter	6.8mm~9.0mm
Specimen length	1200 mm
Marking	LS Cable & System – Sahako Shielded Fire Resistant Data Cable 600/1000V 2CX1.5mm ² / BS 6387 CWZ / IEC 60331 =0513M

Settings:

—Test voltage: [1000] V

—Test current: [0.25] A

—Flame temperature: 950°C

III. Test results

Items	Results
The survival time achieved	180 min
If the voltage is not maintained during the test duration, as indicated by fuse failure.	Pass
If a conductor ruptures during the test duration, as indicated by the lamp extinguishing.	Pass

Statements:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



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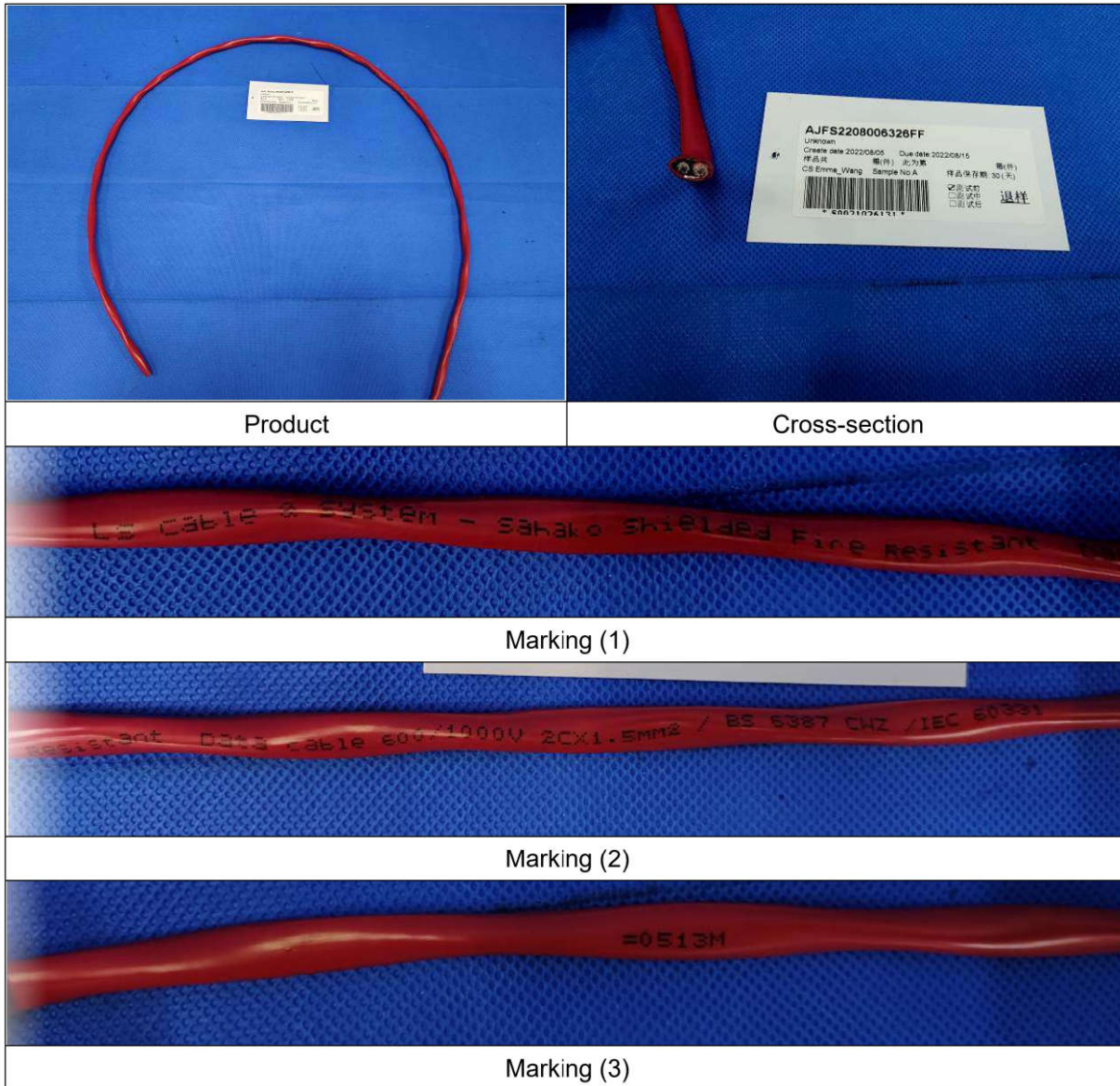
Test Report

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Date: AUG.18, 2022

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Photo Appendix:



SGS authenticate the photo on original report only

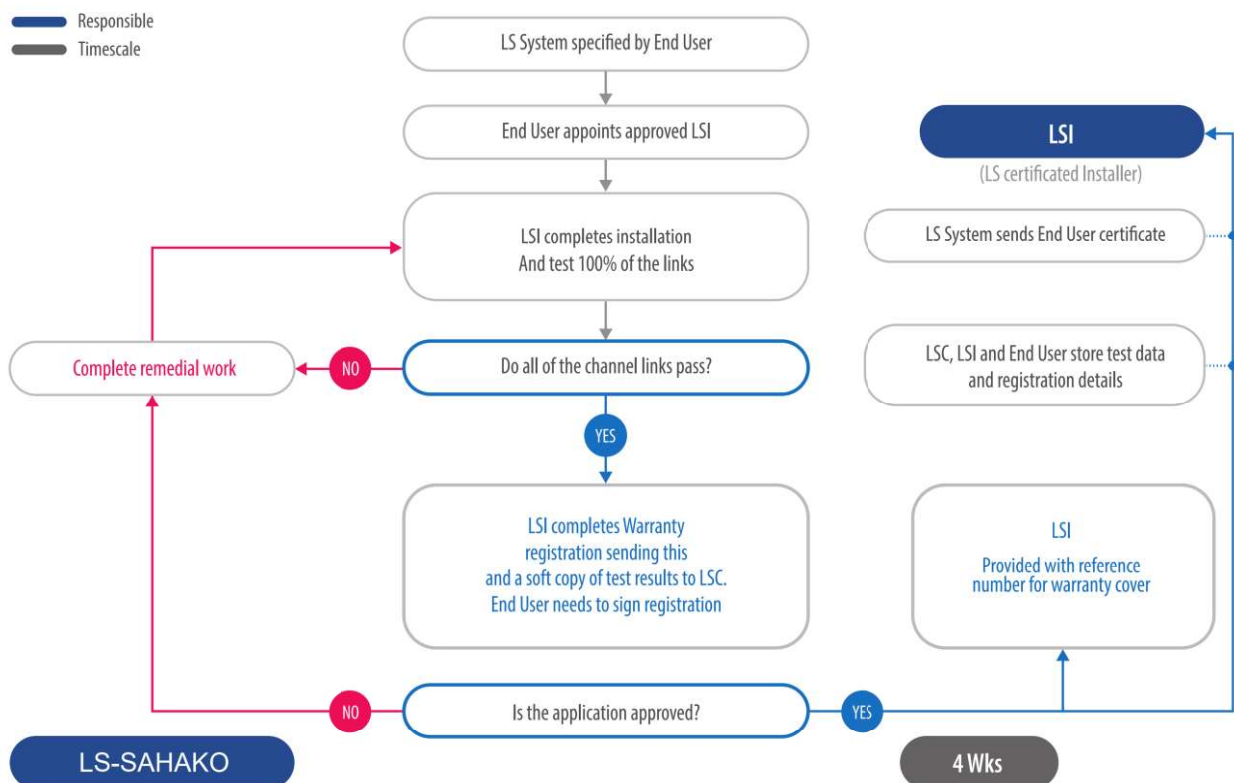
End of Report

LS-SAHAKO Warranty

- Unique 25 year application and product warranty.
- The warranty applied to the network and can be sold as an asset.
- The warranty is only offered by fully trained LS Integrators.
- The system is independently inspected by a third party.



Warranty Process



GLOBAL NETWORK

More than 60 Factories,
Sales and Production Sites
in 20 Countries.

- Factory
- Sales office
- Branch office

● ● **United States**
LSCA FORT LEE
LSCUS TARBORO

● **Mexico**
MEXICO CITY

KOREA



Gumi Plant

EHV / MV / LV cable
UTP, Coaxial cable
SCR, Magnet wire
Overhead cable, Bus duct



Indong Plant

Optical fiber
Optical cable



Donghae Plant

Submarine cable
Industrial specialty cable

CHINA



LSHQ(Yichang)

EHV / MV / LV cable
Industrial specialty cable



LSCW(Wuxi)

Industrial devices cable
Automotive cable
Harness & module
Aluminum, Bus duct





VIETNAM



LS-VINA(Haiphong)

EHV / MV / LV cable
SCR, ACSR
Overhead cable



LSCV(HO Chi Minh)

MV / LV cable
UTP, Optical cable
Overhead cable

INDIA



LSCI(Bawal)

EHV / MV / LV cable
Coaxial cable
Overhead cable

USA



LSCUS(Tarboro)

MV / LV cable
Control, Instrument cable

POLAND



LS EV Poland./LSCP (Dzierzoniow)

Automotive battery components
Optical cable



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LS CABLE & SYSTEM - SAHAKO Data Cable

Nhon Trach 2 - Loc Khang Industrial Zone, Nhon Trach District, Dong Nai Province, Vietnam

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