30th ANNIVERSARY

BICC CABLES

Cables Crafted With Trust

LOW SMOKE HALOGEN FREE AND FIRE CABLES

CATALOGUE 2025

SCAN FOR DIGITAL COPY

Index

BICC CABLES Background

Andrew Fitch
Technical Manager
Since 1996 - 2000

SCAN FOR COMPANY'S VIDEO

BICC CABLES is a prominent supplier of high-quality electrical cables, holding a substantial market presence in Egypt. Over the years, the company has consistently delivered durable and reliable solutions to meet the evolving needs of various sectors.
Our expertise covers all types of electrical cables, including Building Wires, Low Voltage Cables up to 3.3 kV and Medium Voltage Power Cables up to 66 kV (Copper & Aluminum), Control Cables, Instrument Cables, Fire Resistance & Fire Alarm Cables to Overhead Transmission Lines (AAC, AAAC, ABC, ACSR).

Originally under the ownership of BICC in the UK, the company was given the name "British Insulated Callender's Cables" and has been actively contributing to the global cable sector since 1890.

BICC CABLES, a renowned division of Sharkia Holding Group, is globally recognized for its exceptional manufacturing, customer service, and innovation capabilities. With the backing of a team of seasoned professionals, the company is committed to offering high-quality products that meet international regulations and standards.

The BICC factory is situated at Abu Rawash Industrial Zone, KM. 28 Cairo – Alexandria Desert Road, Giza, Egypt. Established in 1996 as a joint venture between BICC Cables of the UK and other investors, the site initially focused on the production of low-voltage power cables. Over the years, it has undergone significant expansion, both in production capacity and market share.

This growth has been achieved through strategic investments, including the installation of new machinery. These improvements are dedicated to meet the evolving needs of our clients and ensuring the consistent supply of high-quality cable products.

Our mission

Empower the world's connections through innovative, reliable, and sustainable wiring solutions. We are committed to delivering high-quality products that exceed industry standards, ensuring the safety and success of our customers' endeavors.

Our vision

We envision a world seamlessly connected, where our cutting-edge solutions empower industries, communities, and individuals alike.

BICC CABLES Background

Ordering Advice

The following details will ensure that your inquiries and orders are handled quickly and efficiently

1. Length of cables required and individual drum lengths.*
2. Voltage designation.
3. Relevant British or International standard.
4. Number of cores.
5. Color code & color sequence (Phase colors and neutral color).
6. Conductor size, where applicable and size of reduced neutral conductor.
7. Conductor material i.e. Copper, Aluminum.
8. Conductor type (solid class 1, stranded class 2 or Flexible strand class 5).
9. Type of insulation (PVC, XLPE and Special compounds)
10. Type of bedding
11. Fire Resistance Cables According to IEC 60331 and BS 6387.
12. Type of armour (STA, GSWA, AWA, ATA, SWA, ...)
13. Type of outer sheath (PVC, Reduced Flame Propagation PVC, LSF & LSOH or LSHF....)
14. Any other requirement, e.g. (circular conductors, special PVC sheath material, drum weight limitation, etc.)

*Cables are normally supplied in lengths of 1000 meters and its multiplies on non returnable wooden drums but varies based on cable size and construction where large sizes are supplied in shorter lengths. For wires, it can be supplied as coils of 100 Mt. for small cross sectional area (up to 25 mm^2) and other sizes are supplied on non returnable wooden drums.

BICC CABLES Background

Technical Advisory Service

Specialist advice on all matters concerning electrical power cables is available from BICC Cables sales team or direct from:

Factory:
Industrial Zone, Abu Rawash Km 28 Cairo
Alexandria Desert Road Cairo, Egypt
Tel. :(202) 3539 0251,2,3,4
Fax :(202) 3539 0255,6
E-mail: info@bicccables.com

BICC Cables is committed to supplying its customers with the highest quality of product and service. BICC Cables have undergone rigorous type testing by ERA Technology Ltd and the British Standard institution (via BASEC of the UK) and fully conform to IEC 60502 for electricity supply up to including 1.8 /3.3 kV ratings.

BICC CABLES Certification

BICC CABLES Certification

Performance

BICC Cables can provide optimum cables performance, and has access to the latest development in conductor, insulation and protective materials technology. Our experienced technical staff can provide guidance on cable selection and installation.

Where necessary, special features can be incorporated into the cable enabling it to have:

- Improved fire performance
- Low smoke and fume (Halogen free).
- Termite resistance
- Resistance to attack from oils, solvents or corrosive chemicals.

Specifying the right cable for a particular application is the first step. However, the key to reliability is in the manufacturing process. The cable must be from high quality material and manufactured ensuring that no defects or weaknesses will be revealed in service.

BICC Cables constantly monitors all manufacturing processes and operates the most stringent quality assurance procedures to give you excellent reliability. It is a factor which assumes vital significance when cables are to be installed in locations where future access would be difficult. That is when BICC cables and resources will give peace of mind.

- Quality Management System ISO 9001:2015
- Environmental Management System (EMS) ISO 14001:2015
- Occupational Health & Safety Management System (OHS) ISO 45001:2018

BICC CABLES Certification

Safety

BICC Cables is able to maintain a close watch on development in cable technology and regulations, and therefore ensure that our products are designed and constructed to be hazard free under the prescribed conditions of use.

BICC Cables uses only tried and tested materials and processes in full compliance with all the relevant British and International standards. therefore, our cables are manufactured for safe use, without the risk to health, on the understanding that users will exercise the same degree of care in their selection and application.

Industrial safety is also an important issue with BICC Cables and is strictly applied to the company's own operations.

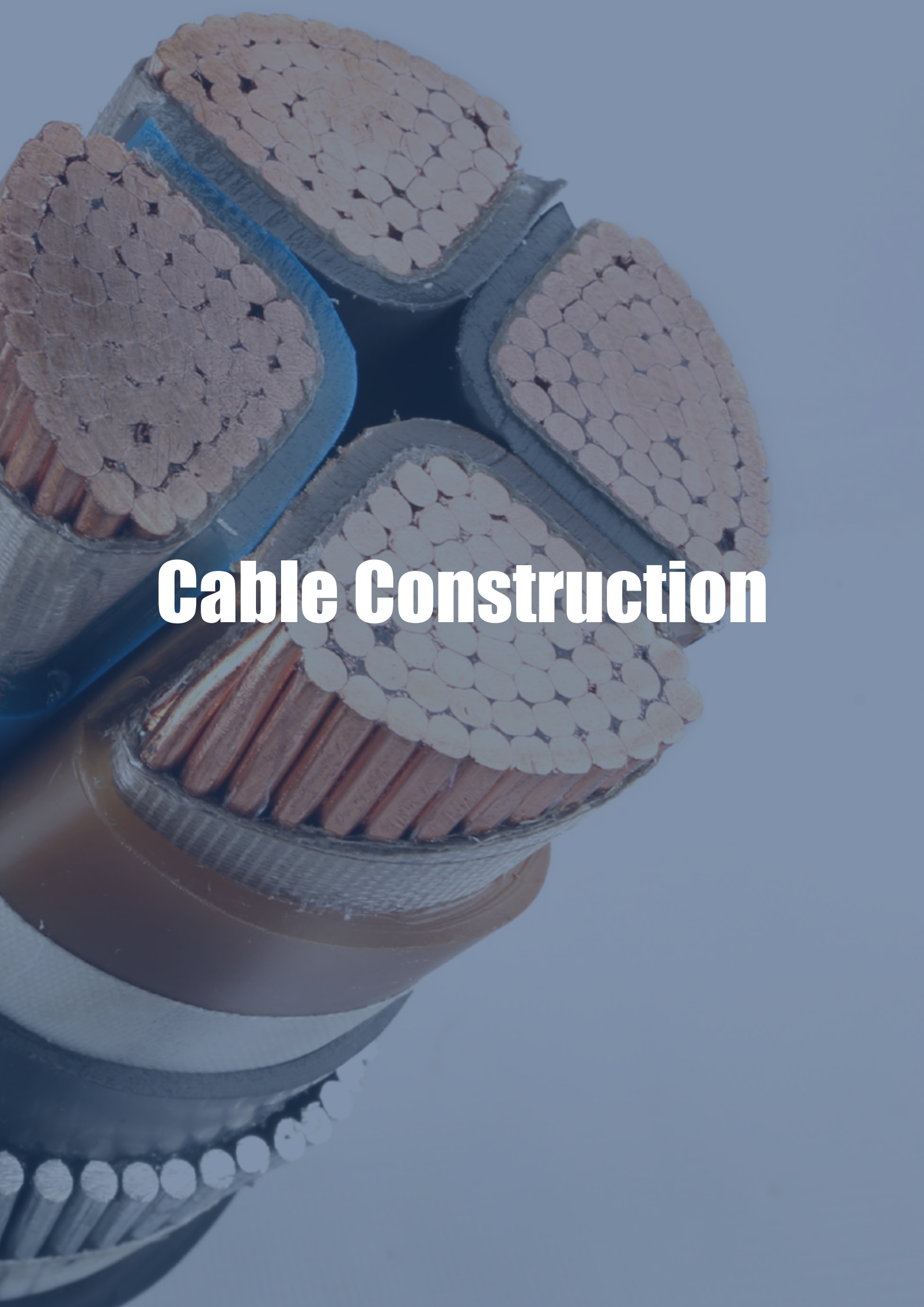
ISO 9001: 2015

BICC Cables Quality Management system, from the start of manufacture is in conformance to:

ISO 9001: 2015 BICC Cables is certified to ISO 9001 by the British Standards Institute (BSI-UK) which is an international recognized accreditation body with uncompromising standards.

ISO 9001: 2015 is an international standard which defines, for suppliers and manufacturers, what is required of quality oriented management system. Essentially, it requires the certified company to draw up written procedures to ensure full compliance with all requirements of the standard.

The procedures are strictly followed by every department in the company, thus ensuring that the goods leaving the factory are of the highest quality and meet each customer's requirements in every respect.



Cable Construction

Cable Construction

Product Code

Number of Unit/s

Number of Cores /
Pairs / Triples ..etc
H : 1 Reduced Neutral
D : 2 Reduced Neutral

Unit Type

C: Core
P: Pair
R: Triplex
T: Triple
Q: Quad
F: Flat

Size

Conductor Cross
Sectional Area (mm²)

Conductor Material

C: Copper
T: Tinned Copper
A: Aluminium H12
J: Aluminium H14
L: Aluminium Alloy
Y: AACSR
G: ACSR

Conductor Design

S: Solid
T: Strand
F : Flexible

Fire Resistance

M: Mica Glass Tape

Insulation Type

P: PVC
X: XLPE
D: PVC 105ºC
S: XLPE 2.5% C.B
A: LSHF Thermo Plastic
L: XL-LSHF
E: PE
N: PVC 90ºC
F : PVC Flex

Chemical Protection

LD: Lead
PA: AL-HDPE-PA

Outer Sheath

P: PVC
E: PE
L: LSHF

Armouring

T: Steel Tape
G: Galvanized Steel Tape
W: Galvanized Steel Wire
K: Aluminum Tape
J: Aluminum Wire
A: Al Foil double side coated

Bedding

P: PVC
E: PE
L: LSHF

Screen & Sheilding

OS: Overall Shield
IS: INDV. Shield /or IS/OS
U: Copper Tape
C: Copper Tape Over Bedding
O: Copper Wire
S: Copper Braid
T: Tinned Copper Braid
F: Tinned Copper Braid over Al/PET
G: Tinned Copper Braid over PET
H: Tinned Copper Braid over Bedding
Q: Aluminum Tape Screen
R: Aluminuim Wire Screen

Rated Voltage

A: 300/500 V or 500 V
C: 0.6 / 1 kV
E: 1.5 kV_{dc}
G: 300/300 V or 300 V
I: 8.7/15 kV
K: 18/30 kV
P: 26/45 kV
B: 450/750 V
D: 1.8/3 kV
F: 3.6/6 kV
J: 6/10 kV
M: 12/20 kV
N: 20.8/36 kV

Introduction

Fires have a high cost in terms of loss of human life and damage to industrial, residential, or commercial buildings. While fire itself is a major cause of destruction, it is crucial to recognize that one of the leading causes of death is the inhalation of toxic gases and the presence of dense smoke, which can obstruct escape routes. Even the most sophisticated alarm and emergency systems can be rendered ineffective if their performance is compromised by the destruction of cables during a fire. Therefore, companies have increasingly invested in the design and development of advanced insulation materials and cables that offer superior performance in fire conditions, minimize fumes and acid gas emissions, and ensure circuit integrity even in the event of a fire.

Fire-resistant cables are specifically designed to maintain circuit integrity and continue functioning for a specified duration under defined fire conditions. Also known as circuit integrity cables, these are essential for critical circuits that support life safety or enable rapid facility shutdowns during emergencies. They are ideal for environments requiring high performance, equipment protection, and, most importantly, human safety.

Applications for these cables are extensive, with numerous benefits making them suitable for various uses, including:

- Residential buildings, multi-story buildings, stores, shops, hotels, theaters, cinemas, schools, hospitals, airports, etc.
- Fire warning systems, alarm systems, ventilation systems, escalators, lifts, safety lights, operation and intensive care stations, maintenance equipment.
- Underground railways and other railway infrastructure
- Power stations and industrial plants with valuable machinery and materials or high-risk potentials
- Emergency power supply systems

Fire Performance

Cables must be properly designed, manufactured, and tested to ensure they meet fire performance requirements.

The behavior of cables in the presence of flame encompasses several aspects. Two key performance categories are:
– Flame Retardant
– Fire Resistant

Flame retardant cables resist the spread of fire but are fully destroyed by the fire, lacking circuit integrity. These cables are designed to prevent flame propagation but do not maintain service during a fire.
Fire-resistant cables, on the other hand, are engineered to maintain circuit integrity and continue functioning even in the presence of fire. They are crucial for systems such as fire alarms, emergency lighting, voice alarm systems, and building evacuation systems. Fire-resistant cables also exhibit flame retardant properties, ensuring the highest level of safety during a fire.

Gas Emission / Smoke Density

Another critical aspect is the quality and quantity of gases released during a fire. Fire fatalities can result not only from flames but also from toxic gases emitted by burning materials. PVC, a common insulation and jacketing material, has excellent flame-retardant properties due to its chlorine content, which suppresses flames. However, chlorine is a corrosive and toxic gas that produces dense smoke, which is undesirable in fire situations. Therefore, it is essential to use materials that are halogen-free and emit minimal smoke. Specific tests according to relevant standards should be conducted to verify performance.

Fire Resistant Cables Features & Advantages:

Features:
– Fire resistance
– Long-term circuit integrity in a fire
– Low smoke and toxic gas emissions
– Flame retardant properties
– Zero halogen gases
– Excellent mechanical properties

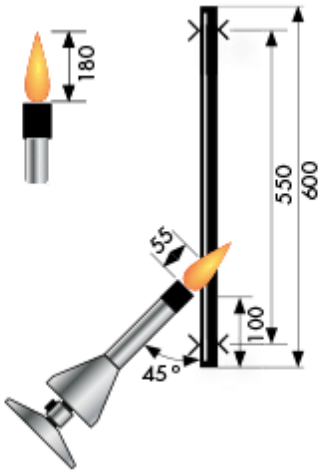
Advantages:
•Very low smoke production & non-corrosive
•No thermoplastic dripping
•Low toxicity
•Good resistance to moisture, fluids, cut-through, crush, and abrasion; slick finish with a low coefficient of friction
•Suitable for a broad range of demanding applications; easy to bend and install
•Effective in harsh environments; easy to pull

Test Methods:

Flame Test Classification

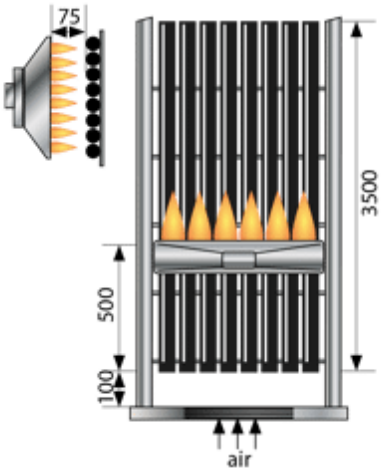
IEC 60332-1-2 / EN 60332-1-2 / VG 95218-2 Method 1 / BS 4066 Part 1 / VDE 0482-332-1-2

BS 6387 Fire resistance Test which consists of 3 component Protocols, designated C, W and Z is to be included in test methods



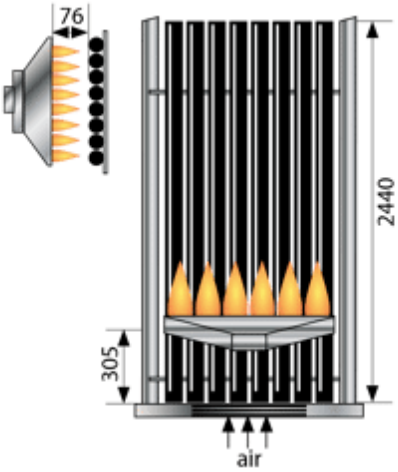
Test set-up	The single cable under test is secured vertically and flamed with a burner at an angle of 45° to the vertical. Test apparatus acc. to IEC / EN 60332-1-1.
Flame temperature	Determined by the stipulated setting of the burner flame.
Test duration	Cable with a diameter of D ≤ 25 mm: 60 ± 2 sec, Cable with a diameter of 25 < D ≤ 50 mm: 120 ± 2 sec, 50 < D < 75 mm: 240 ± 2 sec, D > 75 mm: 480 ± 2 sec
Compliance criterion	The fire damage must end at least 50 mm below the upper fixing clamp. The cable must be self-extinguishing.

IEC 60332-3 / EN 60332-3 / VDE 0482-332-3



Test set-up	The cables are secured to a ladder, close together or spaced apart depending on the type of fire. The cables can be secured in several layers. Test apparatus acc. to IEC / EN 60332-3-10.
Flame temperature	Determined by the stipulated quantity of propane gas and air.
Test duration	IEC Part 21/EN Part 21: Category A F/R for special applications only
Compliance criterion	IEC Part 22/EN Part 22: Category A (7 liters of combustible material per meter / flame application 40 minutes)

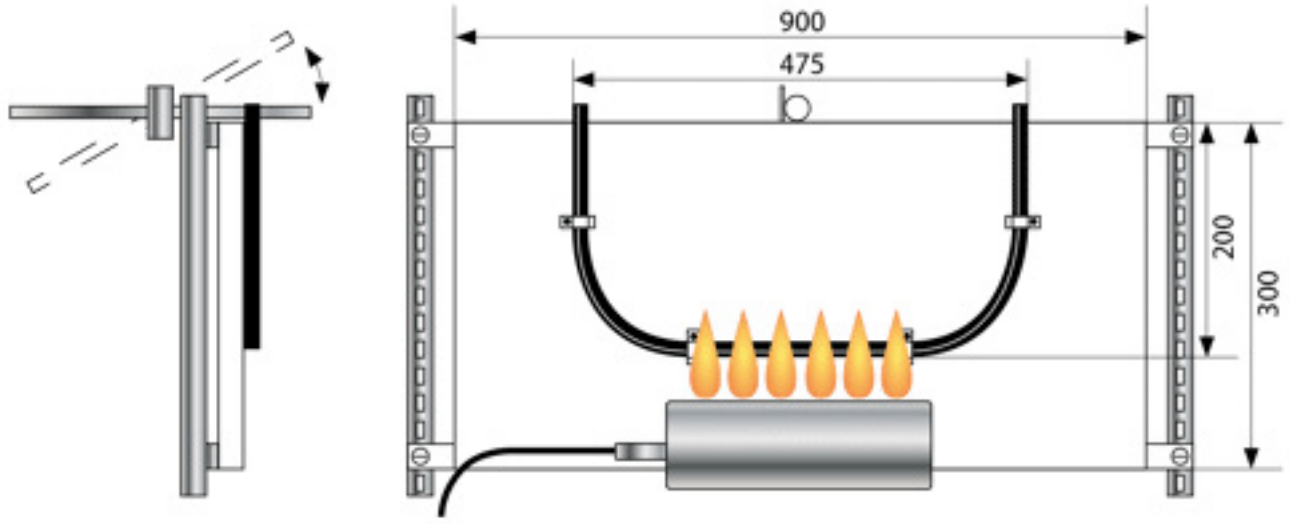
UL 1685 FT4 / IEEE 1202 / UL 2556 Section 9.6 Method 2 (CSA method)



Test set-up	The cables are secured to a ladder in a single layer (quantity depends on the diameter of the cable). The length of each sample is 2.44 m. Cables with a diameter of <13 mm is secured to the ladder in bundles. The burner is tilted at an angle of 20°.
Compliance criterion	The area of fire damage to the cables must be less than 1.5 m (measured from the bot-tom edge of the burner nozzle).

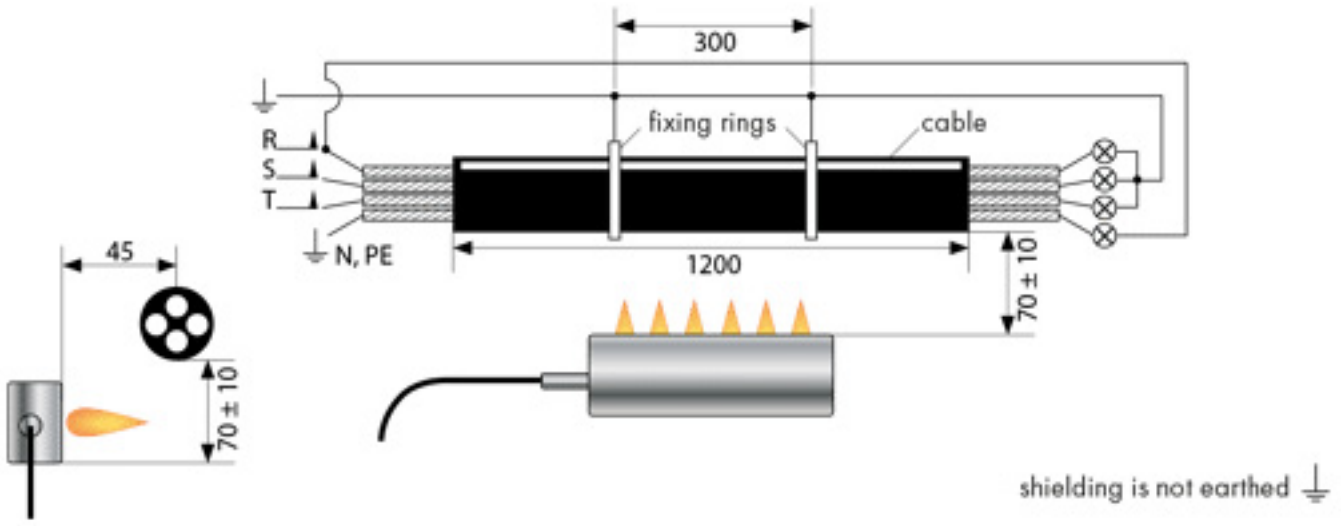
IEC 60331-1 / IEC 60331-2

Test set-up	The cable is secured onto a positioning board and a flame is applied from the front. The positioning board is subjected to shocks every 15 minutes during the combustion period. Part 1: cables with a diameter > 20 mm Part 2: cables with a diameter ≤ 20 mm Test apparatus acc. to IEC 60331-11.
Compliance criterion	When the flame is applied, it must still be possible to transmit power or signals via all conductors. There must be no short circuit between the conductors or to the shielding.



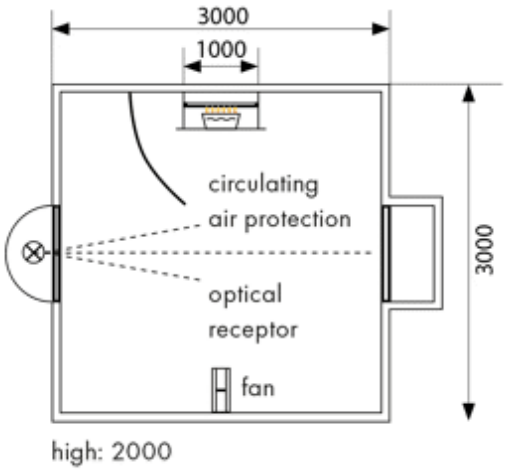
IEC 60331-21 / IEC 60331-22 (draft) / IEC 60331-23

Test set-up	The cable is laid horizontally, with the core and shield connected to a power supply at the following voltages - High voltage cables 0.6/1 kV: U0/U min. 100 V - Data cables: 110 V The flame is applied under the cable from a horizontally offset position across a width of 1200 mm. Part 21: power and control cables ≤1 kV Part 22 (draft): power cables > 1 kV Part 23: copper data cables
Compliance criterion	When the flame is applied and during a cooling period of an additional 15 minutes, it must still be possible to transmit power or signals via all conductors. There must be no short circuit between the conductors or to the shielding and no open phase.



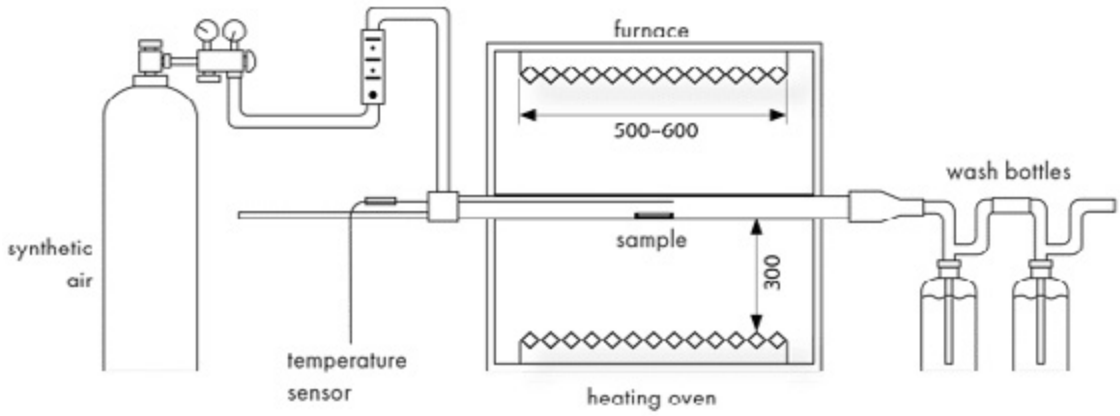
Smoke Density IEC 61034-2 / EN 61034-2 / VDE 0482-1034-2 / NF C32-073-2

Test set-up	A cable specimen is burnt in a closed chamber using a flammable liquid. The light transmittance of the resulting smoke is measured optically. Test apparatus acc. to IEC/EN 61034-1
Flame temperature	Determined by the quantity and composition of the fuel.
Test duration	40 min
Compliance criterion	The smoke must transmit the light at the end of the test's duration, as stated in individual specifications. The recommendation of light transmission is 60 % minimum.



Corrosiveness of the combustion gases (absence of halogen) IEC 60754 / EN 50267 / VDE 0482-267-1 / NF C32-074

Test set-up	This standard covers the general aspects of corrosiveness of smoke and combustion gases dissolved in water or atmospheric moisture as well as the potential hazard (general guidelines).



IEC 60754-1 / EN 50267-2-1 / VDE 0482-267-2-1 / NF C32-074-21

Test set-up	A sample of between 0.5 g and 1.0 g is heated in a tube. The resulting gases are dissolved and tested for their halogen content. Test apparatus acc. to EN 50267-1.
Flame temperature	800 ± 10 °C
Test duration	40 ± 5 minutes in total, with at least 20 minutes at the maximum temperature
Compliance criterion	The amount of halogen acid is expressed as mg of hydrochloric acid per gram mass of sample

IEC 60754-2 / EN 50267-2-2 / VDE 0482-267-2-2 / NF C32-074-22

Test set-up	A sample of 1 g of all non-metallic cable components is burnt in a furnace. The pH value and the conductivity of the combustion gases dissolved in water are measured. Test apparatus acc. to EN 50267-1.
Flame temperature	At least 935 °C
Test duration	30 min
Compliance criterion	The pH value and the conductivity must be measured. Recommendation: The pH value of the washing water must be at least 4.3, the conductivity of the washing water must be at most 10 µS/mm. The criteria are valid for one non-metallic component of a cable.

BS6387 Fire Resistance Test

Test	The test method given in this British Standard consists of three component Protocols, designated C, W and Z. When separate test pieces from the same sample of cable are tested to each of these three protocols, these together comprise the full test. When the requirements of each one of the protocols are met, the cable may be designated as “category CWZ”. It details the following methods to categorize the cables according to cable withstand capacities.
Resistance to fire alone (Protocol C):	Protocol C: subjects the cable under test to a flame via direct impingement corresponding to a temperature attack of 950°C ± 40°C for 3 hours.
Resistance to fire with water (Category W):	Cables are subjected to fire at 650°C ±40°C for 15 minutes, then at 650°C with water spray for a further 15 minutes.
Resistance to fire with mechanical shock (Protocol Z):	subjects the cable under test to a flame via direct impingement corresponding to a temperature attack of 950°C ± 40°C for 15 minutes. with indirect application of mechanical shock.

*Product standards might refer to only one of the protocols C or W or Z, but, in such cases, may not use the designation”Category CWZ”.

Low Smoke Halogen Free Wires and Cables

LSHF Wires

STRANDED COPPER
Single Core
LSHF Insulated 450/750 V

Applications:
For indoor fixed installations in dry locations, laid in conduits, as well as in steel support brackets

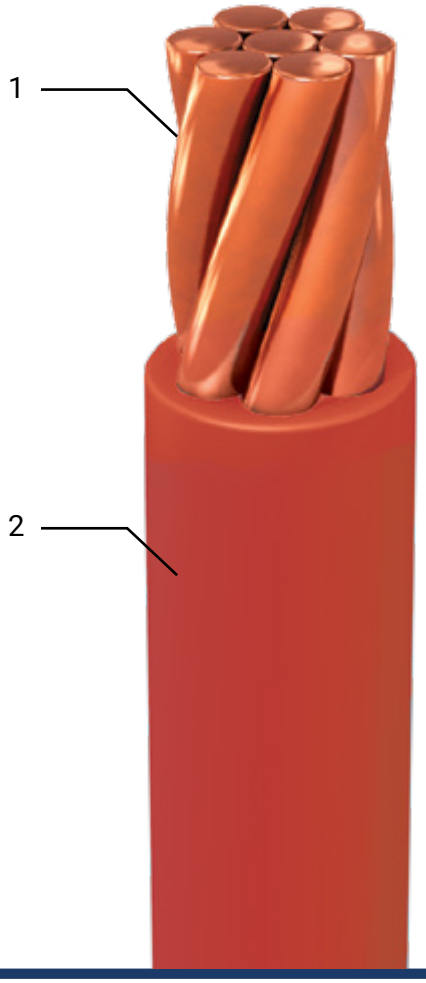
Maximum operating temperature: 90°C

Construction:
1. CONDUCTOR
Copper, Stranded class 2
*Note: Solid copper conductors class 1 are available upon request from 0.5 mm^2 up to 16 mm^2

2. INSULATION
Low Smoke Halogen Free [LSHF]

Standards:
BSEN 50525-3-41(H07Z-R)
IEC 60228

Rated Voltage:
450/750 V
*Note: Other AWG sizes are available upon request



LSHF Wires

Stranded CU/LSHF

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Rating	
	(mm²)	(mm)	(kg/km)	DC at 20 °C	AC at 70 °C	in free air 	in pipes 
				Ω/Km	Ω/Km	A	A
01C001CT0LB0000	1	2.7	20	18.1	21.66	15	12
01C01.5CT0LB0000	1.5	2.9	26	12.1	14.48	18	15
01C002CT0LB0000	2	3.4	32	9.22	11.03	21	17
01C02.5CT0LB0000	2.5	3.5	37	7.41	8.87	29	24
01C003CT0LB0000	3	3.7	42	6.1	7.30	31	25
01C004CT0LB0000	4	4.1	58	4.61	5.52	38	27
01C006CT0LB0000	6	4.6	79	3.08	3.69	45	33
01C010CT0LB0000	10	5.8	116	1.83	2.19	67	48
01C016CT0LB0000	16	6.7	173	1.15	1.38	89	65
01C025CT0LB0000	25	8.5	274	0.727	0.87	118	83
01C035CT0LB0000	35	9.1	366	0.524	0.63	147	104
01C050CT0LB0000	50	10.6	495	0.387	0.46	178	125
01C070CT0LB0000	70	12.6	694	0.268	0.32	228	155
01C095CT0LB0000	95	14.6	956	0.193	0.23	290	199
01C120CT0LB0000	120	16.1	1191	0.153	0.18	338	227
01C150CT0LB0000	150	17.9	1481	0.124	0.15	385	259
01C185CT0LB0000	185	20.0	1830	0.0991	0.12	449	298
01C240CT0LB0000	240	23.0	2422	0.0754	0.09	541	358
01C300CT0LB0000	300	25.2	2990	0.0601	0.08	619	405
01C400CT0LB0000	400	28.7	3813	0.047	0.06	748	488
01C500CT0LB0000	500	32.6	4843	0.0366	0.05	863	560
01C630CT0LB0000	630	38.4	6155	0.0283	0.04	1024	652

Installation Conditions for the above rating
In Air : 30°C
In Duct : 20°C
The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Wires

FLEXIBLE COPPER

Single Core
LSHF Insulated 450/750 V

Applications:

For indoor fixed installations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus. they can be laid in groups around Steel sheet

Maximum operating temperature: 90˚C

Construction:

1. CONDUCTOR

Copper, flexible class 5

2. INSULATION

Low Smoke Halogen Free [LSHF]

Standards:

BSEN 50525-3-41 (H07Z-K)
IEC 60228

Rated Voltage:

450/750 V

*Note: Other AWG sizes are available upon request

LSHF Wires

Flex. CU/LSHF

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Rating	
						in free air 	in pipes 
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C		
				Ω/Km	Ω/Km	A	A
01C001CF0LB0000	1	2.7	18	19.5	23.3	15	12
01C01.5CF0LB0000	1.5	3.0	23	13.3	15.9	18	15
01C002CF0LB0000	2	3.5	30	9.755	11.67	21	17
01C02.5CF0LB0000	2.5	3.7	37	7.98	9.548	29	24
01C003CF0LB0000	3	4.1	43	6.45	7.717	31	25
01C004CF0LB0000	4	4.3	53	4.95	5.922	38	27
01C006CF0LB0000	6	4.9	74	3.3	3.948	45	33
01C010CF0LB0000	10	6.2	123	1.91	2.29	67	48
01C016CF0LB0000	16	7.2	176	1.21	1.45	89	65
01C025CF0LB0000	25	9.9	281	0.78	0.94	118	83
01C035CF0LB0000	35	11.7	382	0.554	0.663	147	104
01C050CF0LB0000	50	13.3	511	0.386	0.462	178	125
01C070CF0LB0000	70	15.4	704	0.272	0.326	228	155
01C095CF0LB0000	95	17.9	974	0.206	0.247	290	199
01C120CF0LB0000	120	19.5	1200	0.161	0.193	338	227
01C150CF0LB0000	150	21.1	1520	0.129	0.155	385	259
01C185CF0LB0000	185	25.0	1854	0.106	0.127	449	298
01C240CF0LB0000	240	28.4	2439	0.0801	0.096	541	358
01C300CF0LB0000	300	31.8	3063	0.0641	0.0769	619	405
01C400CF0PB0000	400	36.2	3903	0.0486	0.0583	748	488

Installation Conditions for the above rating
In Air : 30°C
In Duct : 20°C

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables- Non armoured

STRANDED COPPER

Single Core
XLPE Insulated 0.6/1 KV

Applications:

For outdoor and indoor installations in damp and wet locations, They are normally used for power distribution in urban networks. industrial plants. As well as in thermopower and Hydropower stations.

Maximum operating temperature: 90˚C

Construction:

1. CONDUCTOR
Copper, semi-rigid class 2

2. INSULATION
Cross-Linked polyethylene [XLPE]

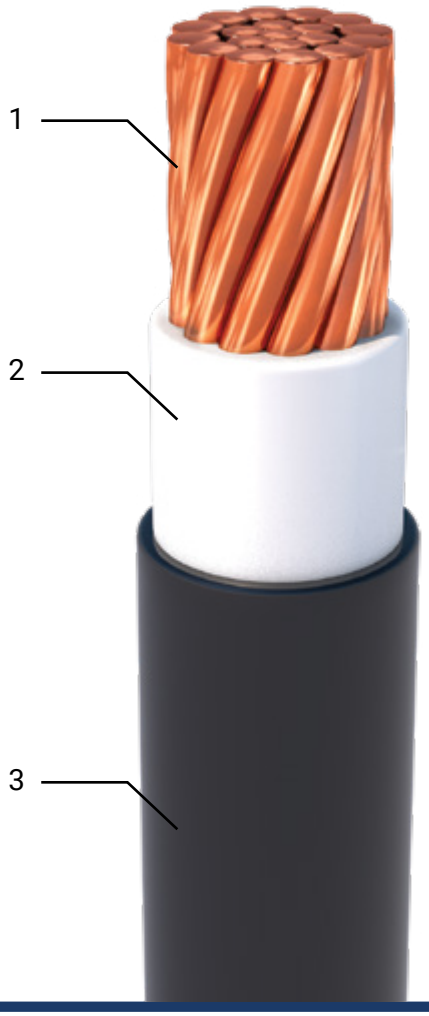
3. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

IEC 60502-1
IEC 60228

Rated Voltage:

0.6/1 kV



LSHF Cables- Non armoured

CU/XLPE/LSHF 1 Core

Flat Formation

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Rating	
	(mm²)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	In Free Air
				Ω/Km	Ω/Km	A	A
N01C01.5CT0XC000L	1.5	6.2	50	12.1	15.4	45	34
N01C02.5CT0XC000L	2.5	6.6	62	7.41	9.45	57	46
N01C004CT0XC000L	4	7.2	81	4.61	5.88	67	52
N01C006CT0XC000L	6	7.7	101	3.08	3.93	82	65
N01C010CT0XC000L	10	8.5	142	1.83	2.33	118	87
N01C016CT0XC000L	16	9.4	201	1.15	1.47	140	121
N01C025CT0XC000L	25	10.9	294	0.727	0.927	181	151
N01C035CT0XC000L	35	12	390	0.524	0.669	216	190
N01C050CT0XC000L	50	13.5	511	0.387	0.494	254	231
N01C070CT0XC000L	70	15.3	708	0.268	0.343	318	295
N01C095CT0XC000L	95	17	956	0.193	0.248	375	370
N01C120CT0XC000L	120	18.6	1206	0.153	0.197	432	433
N01C150CT0XC000L	150	20.6	1486	0.124	0.16	476	491
N01C185CT0XC000L	185	22.7	1828	0.0991	0.129	547	572
N01C240CT0XC000L	240	25.4	2351	0.0754	0.99	629	705
N01C300CT0XC000L	300	28	2926	0.0601	0.081	711	832
N01C400CT0XC000L	400	31.4	3744	0.047	0.0638	813	959
N01C500CT0XC000L	500	35.1	4828	0.0366	0.0517	920	1086
N01C630CT0XC000L	630	39.8	6163	0.0283	0.0425	1054	1247

CU/XLPE/LSHF 1 Core

Trefoil Formation

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Rating		
	(mm²)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
N01C01.5CT0XC000L	1.5	6.2	50	12.1	15.4	45	32	34
N01C02.5CT0XC000L	2.5	6.6	62	7.41	9.45	57	41	46
N01C004CT0XC000L	4	7.2	81	4.61	5.88	62	45	44
N01C006CT0XC000L	6	7.7	101	3.08	3.93	79	60	58
N01C010CT0XC000L	10	8.5	142	1.83	2.33	104	77	75
N01C016CT0XC000L	16	9.4	201	1.15	1.47	134	98	105
N01C025CT0XC000L	25	10.9	294	0.727	0.927	172	124	133
N01C035CT0XC000L	35	12	390	0.524	0.669	208	155	167
N01C050CT0XC000L	50	13.5	511	0.387	0.494	242	184	202
N01C070CT0XC000L	70	15.3	708	0.268	0.343	299	226	260
N01C095CT0XC000L	95	17	956	0.193	0.248	355	273	318
N01C120CT0XC000L	120	18.6	1206	0.153	0.197	406	308	375
N01C150CT0XC000L	150	20.6	1486	0.124	0.16	451	350	428
N01C185CT0XC000L	185	22.7	1828	0.0991	0.129	514	398	485
N01C240CT0XC000L	240	25.4	2351	0.0754	0.99	590	457	590
N01C300CT0XC000L	300	28	2926	0.0601	0.081	660	516	682
N01C400CT0XC000L	400	31.4	3744	0.047	0.0638	750	582	785
N01C500CT0XC000L	500	35.1	4828	0.0366	0.0517	838	646	895
N01C630CT0XC000L	630	39.8	6163	0.0283	0.0425	939	736	1052

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying: 0.50 Mt.
Soil Thermal Resistivity: 1.0 °C m/W
The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables- Non armoured

STRANDED ALUMINUM

Single Core
XLPE Insulated 0.6/1 KV

Applications:

For indoor and outdoor installations in damp and wet locations. They are normally used for power distribution in urban networks,
industrial plants as well as in thermopower and hydropower stations.

Maximum operating temperature: 90˚C

Construction:

1. CONDUCTOR
Aluminum, semi-rigid class 2

2. INSULATION
Cross-Linked polyethylene [XLPE]

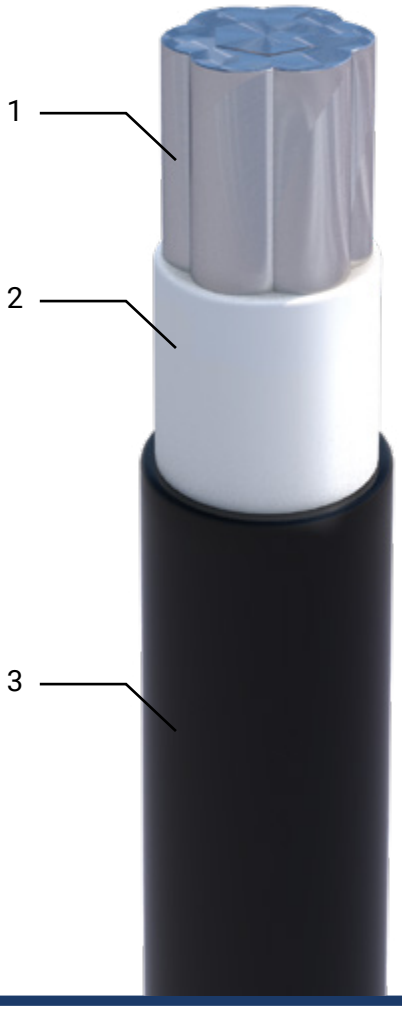
3. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

IEC 60502-1
IEC 60228

Rated Voltage:

0.6/1 kV



LSHF Cables- Non armoured

AL/XLPE/LSHF 1 Core

Flat Formation

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Rating	
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	In Free Air
				Ω/Km	Ω/Km	A	A
N01C016AT0XC000L	16	9.4	106	1.91	2.45	108	92
N01C025AT0XC000L	25	10.9	148	1.2	1.54	137	121
N01C035AT0XC000L	35	12	183	0.868	1.113	166	151
N01C050AT0XC000L	50	13.5	234	0.641	0.822	197	185
N01C070AT0XC000L	70	15.3	306	0.443	0.569	242	237
N01C095AT0XC000L	95	17	395	0.32	0.411	285	300
N01C120AT0XC000L	120	18.6	478	0.253	0.325	336	347
N01C150AT0XC000L	150	20.5	589	0.206	0.265	375	398
N01C185AT0XC000L	185	22.7	723	0.164	0.212	426	462
N01C240AT0XC000L	240	25.4	905	0.125	0.163	496	549
N01C300AT0XC000L	300	27.9	1111	0.1	0.131	565	624
N01C400AT0XC000L	400	31.3	1417	0.0778	0.1	654	745
N01C500AT0XC000L	500	35.1	1793	0.0605	0.087	736	867
N01C630AT0XC000L	630	39.7	2297	0.0469	0.062	844	1016

AL/XLPE/LSHF 1 Core

Trefoil Formation

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Rating		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
N01C016AT0XC000L	16	9.4	106	1.91	2.45	105	75	69
N01C025AT0XC000L	25	10.9	148	1.2	1.54	133	95	105
N01C035AT0XC000L	35	12	183	0.868	1.113	158	119	133
N01C050AT0XC000L	50	13.5	234	0.641	0.822	187	137	162
N01C070AT0XC000L	70	15.3	306	0.443	0.569	229	172	197
N01C095AT0XC000L	95	17	395	0.32	0.411	273	202	237
N01C120AT0XC000L	120	18.6	478	0.253	0.325	318	243	266
N01C150AT0XC000L	150	20.5	589	0.206	0.265	355	267	329
N01C185AT0XC000L	185	22.7	723	0.164	0.212	406	302	370
N01C240AT0XC000L	240	25.4	905	0.125	0.163	470	356	439
N01C300AT0XC000L	300	27.9	1111	0.1	0.131	527	403	508
N01C400AT0XC000L	400	31.3	1417	0.0778	0.1	609	463	595
N01C500AT0XC000L	500	35.1	1793	0.0605	0.087	686	528	693
N01C630AT0XC000L	630	39.7	2297	0.0469	0.062	781	606	821

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W
The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables- Non armoured

STRANDED COPPER

Multi Core
XLPE Insulated
0.6/1 KV

Applications:

Semi-rigid for use in low voltage power distribution in fixed indoor and outdoor installations.
Maximum operating temperature: 90˚C

Construction:

1. CONDUCTOR
Copper, semi-rigid class 2

2. INSULATION
Cross-Linked polyethylene [XLPE]

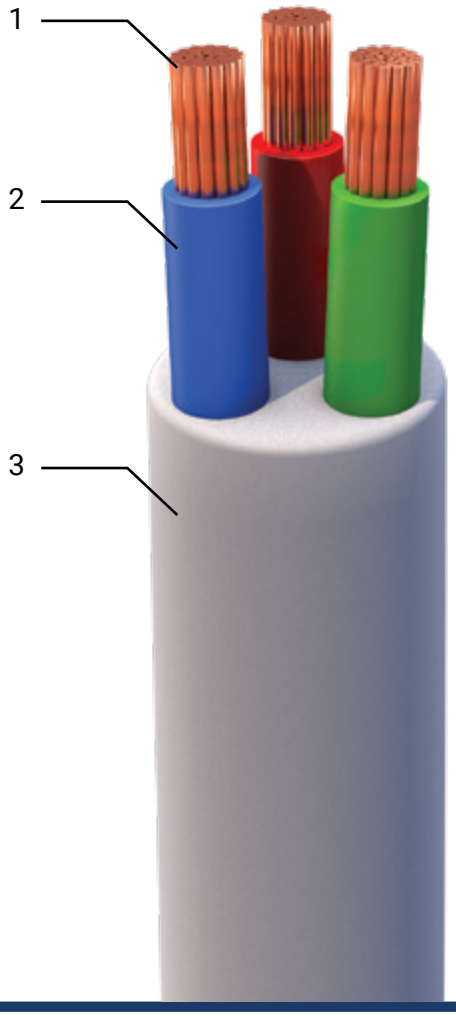
3. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

IEC 60502-1
IEC 60228

Rated Voltage:

0.6/1 kV



LSHF Cables- Non armoured

CU/XLPE/LSHF 2 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N02C01.5CT0XC000L	1.5	RM	9.9	131	12.1	15.43	40	31	29
N02C02.5CT0XC000L	2.5	RM	10.7	163	7.41	9.45	51	40	39
N02C004CT0XC000L	4	RM	11.9	214	4.61	5.88	68	52	52
N02C006CT0XC000L	6	RM	12.9	268	3.08	3.93	85	66	66
N02C010CT0XC000L	10	RM	14.5	321	1.83	2.33	114	87	90
N02C016CT0XC000L	16	RM	16.3	448	1.15	1.47	145	112	116
N02C025CT0XC000L	25	RM	19.3	665	0.727	0.927	187	136	150
N02C035CT0XC000L	35	RM	21.5	867	0.524	0.669	224	165	185
N02C050CT0XC000L	50	SM	20.1	1035	0.387	0.494	265	199	226
N02C070CT0XC000L	70	SM	22.8	1449	0.268	0.343	328	247	289
N02C095CT0XC000L	95	SM	25.7	1984	0.193	0.248	395	302	352

CU/XLPE/LSHF 3 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N03C01.5CT0XC000L	1.5	RM	10.4	151	12.1	15.43	33	25	25
N03C02.5CT0XC000L	2.5	RM	11.2	190	7.41	9.45	43	33	33
N03C004CT0XC000L	4	RM	12.5	256	4.61	5.88	56	44	44
N03C006CT0XC000L	6	RM	13.6	326	3.08	3.93	70	54	56
N03C010CT0XC000L	10	RM	15.3	419	1.83	2.33	94	73	78
N03C016CT0XC000L	16	RM	17.3	600	1.15	1.47	122	90	100
N03C025CT0XC000L	25	SM	18.0	864.0	0.7	0.9	150.0	122.0	128.0
N03C035CT0XC000L	35	SM	20.0	1144.0	0.5	0.7	186.0	141.0	158.0
N03C050CT0XC000L	50	SM	23.0	1497.0	0.4	0.5	222.0	171.0	193.0
N03C070CT0XC000L	70	SM	26.5	2132.0	0.3	0.3	273.0	209.0	246.0
N03C095CT0XC000L	95	SM	29.8	2909.0	0.2	0.2	325.0	247.0	298.0
N03C120CT0XC000L	120	SM	33.2	3618.0	0.2	0.2	376.0	292.0	347.0
N03C150CT0XC000L	150	SM	37.3	4449.0	0.1	0.2	417.0	321.0	399.0
N03C185CT0XC000L	185	SM	41.3	5530.0	0.1	0.1	484.0	370.0	457.0
N03C240CT0XC000L	240	SM	45.4	7217.0	0.1	1.0	561.0	427.0	539.0
N03C300CT0XC000L	300	SM	50.3	9021.0	0.1	0.1	624.0	486.0	622.0

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded

SM/RM : Sector for Phase , Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables- Non armoured

CU/XLPE/LSHF 4 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N04C01.5CT0XC000L	1.5	RM	11.1	177	12.1	15.43	33	25	25
N04C02.5CT0XC000L	2.5	RM	12.1	229	7.41	9.45	43	33	33
N04C004CT0XC000L	4	RM	13.5	310	4.61	5.88	56	44	44
N04C006CT0XC000L	6	RM	14.7	400	3.08	3.93	70	54	56
N04C010CT0XC000L	10	RM	16.7	528	1.83	2.33	94	73	78
N04C016CT0XC000L	16	RM	18.9	764	1.15	1.47	122	90	100
N04C025CT0XC000L	25	SM	20.6	1134	0.7	0.9	150	122	128
N04C035CT0XC000L	35	SM	23.0	1505	0.5	0.7	186	141	158
N04C050CT0XC000L	50	SM	26.7	1968	0.4	0.5	222	171	193
N04C070CT0XC000L	70	SM	30.8	2818	0.3	0.3	273	209	246
N04C095CT0XC000L	95	SM	34.5	3833	0.2	0.2	325	247	298
N04C120CT0XC000L	120	SM	38.6	4807	0.2	0.2	376	292	347
N04C150CT0XC000L	150	SM	43.1	5904	0.1	0.2	417	321	399
N04C185CT0XC000L	185	SM	47.1	7362	0.1	0.1	484	370	457
N04C240CT0XC000L	240	SM	52.9	9604	0.1	1.0	561	427	539
N04C300CT0XC000L	300	SM	58.5	11967	0.1	0.1	624	486	622

CU/XLPE/LSHF 4 Cores Cable with Reduced Neutral

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N3HC025CT0XC000L	25/16	SM/RM	20	1032	0.727/1.1500	0.927/1.4700	150	122	128
N3HC035CT0XC000L	35/16	SM/RM	21.9	1322	0.524/1.1500	0.669/1.4700	186	141	158
N3HC050CT0XC000L	50/25	SM	25.3	1763	0.387/0.7270	0.494/0.9270	222	171	193
N3HC070CT0XC000L	70/35	SM	29.1	2484	0.268/0.5240	0.343/0.6690	273	209	246
N3HC095CT0XC000L	95/50	SM	33	3379	0.193/0.3870	0.248/0.4940	325	247	298
N3HC120CT0XC000L	120/70	SM	36.9	4295	0.153/0.2680	0.197/0.3430	376	292	347
N3HC150CT0XC000L	150/70	SM	40.7	5152	0.124/0.2680	0.16/0.3430	417	321	399
N3HC185CT0XC000L	185/95	SM	44.6	6496	0.0991/0.1930	0.129/0.2480	484	370	457
N3HC240CT0XC000L	240/120	SM	50.1	8411	0.0754/0.1530	0.099/0.1970	561	427	539
N3HC300CT0XC000L	300/150	SM	55.4	10463	0.601/0.1240	0.081/0.1600	624	486	622

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase , Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables- Non armoured

STRANDED ALUMINUM

Multi Core
XLPE Insulated
0.6/1 KV

Applications:

For indoor and outdoor installations in damp and wet locations. Maximum operating temperature: 90˚C

Construction:

1. CONDUCTOR
Aluminum, semi-rigid class 2

2. INSULATION
Cross-Linked polyethylene [XLPE]

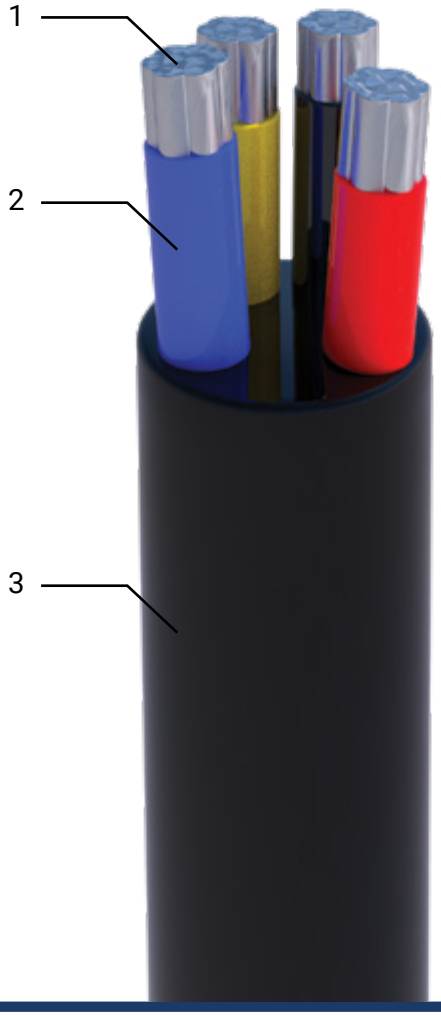
3. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

IEC 60502-1
IEC 60228

Rated Voltage:

0.6/1 kV



LSHF Cables- Non armoured

AL/XLPE/LSHF 2 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N02C016AT0XC000L	16	RM	16.3	258	1.91	2.45	107	80	87
N02C025AT0XC000L	25	RM	19.3	362	1.2	1.54	139	102	108
N02C035AT0XC000L	35	RM	21.5	452	0.868	1.113	170	127	135
N02C050AT0XC000L	50	SM	20.1	476	0.641	0.822	201	146	164
N02C070AT0XC000L	70	SM	22.8	623	0.443	0.569	247	190	211
N02C095AT0XC000L	95	SM	25.7	818	0.32	0.411	293	228	257

AL/XLPE/LSHF 3 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N02C016AT0XC000L	16	RM	17.3	315	1.91	2.45	91	68	73
N02C025AT0XC000L	25	SM	18	400	1.2	1.54	119	89	97
N02C035AT0XC000L	35	SM	20	502	0.868	1.113	139	107	120
N02C050AT0XC000L	50	SM	23	664	0.641	0.822	170	131	146
N02C070AT0XC000L	70	SM	26.5	887	0.443	0.569	206	160	187
N02C095AT0XC000L	95	SM	29.8	1172	0.32	0.411	247	190	228
N02C120AT0XC000L	120	SM	33.2	1434	0.253	0.325	284	219	263
N02C150AT0XC000L	150	SM	37.3	1773	0.206	0.265	320	247	305
N02C185AT0XC000L	185	SM	41.3	2164	0.164	0.212	364	281	348
N02C240AT0XC000L	240	SM	45.4	2791	0.125	0.163	432	330	409
N02C300AT0XC000L	300	SM	50.3	3415	0.1	0.131	484	374	472

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W
The above dimensions are approximate and subject to manufacturing tolerance.

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase , Round for Neutral

LSHF Cables- Non armoured

AL/XLPE/LSHF 4 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N04C016AT0XC000L	16	RM	18.9	384	1.91	2.45	91	68	73
N04C025AT0XC000L	25	SM	20.6	519	1.2	1.54	119	89	97
N04C035AT0XC000L	35	SM	23	650	0.868	1.113	139	107	120
N04C050AT0XC000L	50	SM	26.7	862	0.641	0.822	170	131	146
N04C070AT0XC000L	70	SM	30.8	1155	0.443	0.569	206	160	187
N04C095AT0XC000L	95	SM	34.5	1528	0.32	0.411	247	190	228
N04C120AT0XC000L	120	SM	38.6	1893	0.253	0.325	284	219	263
N04C150AT0XC000L	150	SM	43.1	2336	0.206	0.265	320	247	305
N04C185AT0XC000L	185	SM	47.1	2867	0.164	0.212	364	281	348
N04C240AT0XC000L	240	SM	52.9	3691	0.125	0.163	432	330	409
N04C300AT0XC000L	300	SM	58.5	4507	0.1	0.131	484	374	472

AL/XLPE/LSHF 4 Cores Cable with Reduced Neutral

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N3HC025AT0XC000L	25/16	SM/RM	20	477	1.200/1.1910	1.5400/2.4500	119	89	97
N3HC035AT0XC000L	35/16	SM/RM	21.9	586	0.868/1.9100	1.1130/2.4500	139	107	120
N3HC050AT0XC000L	50/25	SM	25.3	780	0.641/1.2000	0.8220/1.5400	170	131	146
N3HC070AT0XC000L	70/35	SM	29.1	1023	0.443/0.8680	0.5690/1.1130	206	160	187
N3HC095AT0XC000L	95/50	SM	33	1373	0.32/0.6410	0.4110/0.8220	247	190	228
N3HC120AT0XC000L	120/70	SM	36.9	1694	0.253/0.4430	0.3250/0.5690	284	219	263
N3HC150AT0XC000L	150/70	SM	40.7	2060	0.206/0.4430	0.2650/0.5690	320	247	305
N3HC185AT0XC000L	185/95	SM	44.6	2549	0.164/0.3200	0.2120/0.4110	364	281	348
N3HC240AT0XC000L	240/120	SM	50.1	3248	0.125/0.2530	0.1630/0.3250	432	330	409
N3HC300AT0XC000L	300/150	SM	55.4	3976	0.1000/0.2060	0.1310/0.2650	484	374	472

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase , Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables Armoured

STRANDED COPPER

Multi Core
XLPE Insulated
0.6/1 KV

Applications:

For indoor and outdoor installations in damp and wet locations.
Where mechanical damage is expected to occur.

Maximum operating temperature: 90˚C

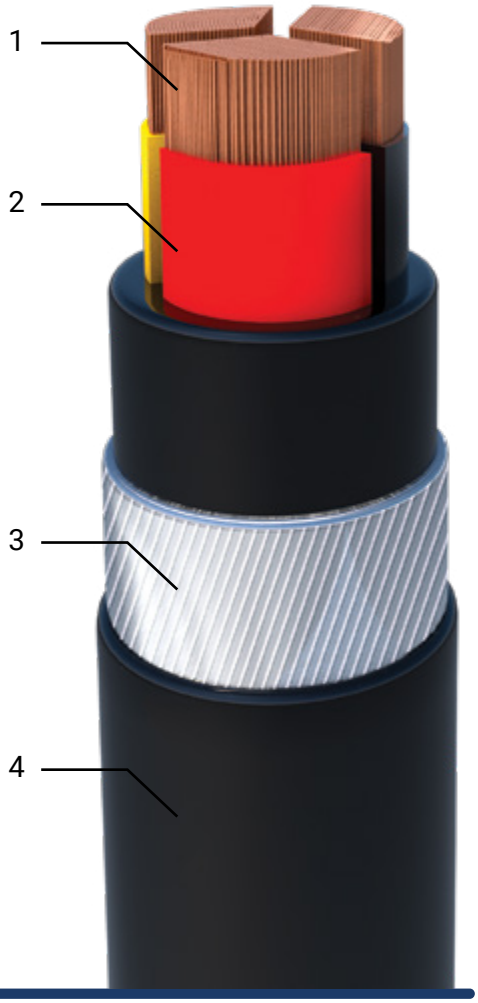
Construction:

1. CONDUCTOR
Copper, semi-rigid class 2

2. INSULATION
Cross-Linked polyethylene [XLPE]

3. ARMOUR
Galvanized Round Steel Wire

4. SHEATH
Low Smoke Halogen Free [LSHF]



Standards:

IEC 60502-1
IEC 60228

Rated Voltage:

0.6/1 kV

LSHF Cables Armoured

CU/XLPE/SWA/LSHF C 2 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm²)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N02C01.5CT0XC0LWL	1.5	RM	14.8	339	12.1	15.2	40	31	29
N02C02.5CT0XC0LWL	2.5	RM	15.6	385	7.41	9.4	51	40	39
N02C004CT0XC0LWL	4	RM	16.8	448	4.61	5.8782	66	52	52
N02C006CT0XC0LWL	6	RM	17.8	514	3.08	3.9273	83	66	66
N02C010CT0XC0LWL	10	RM	20.1	741	1.83	2.3335	112	87	90
N02C016CT0XC0LWL	16	RM	21.9	910	1.15	1.47	142	112	116
N02C025CT0XC0LWL	25	RM	25.6	1345	0.727	0.927	186	141	152
N02C035CT0XC0LWL	35	RM	27.8	1636	0.524	0.669	222	171	188
N02C050CT0XC0LWL	50	SM	26.4	1735	0.387	0.494	262	205	228
N02C070CT0XC0LWL	70	SM	29.5	2273	0.268	0.343	325	253	292
N02C095CT0XC0LWL	95	SM	33.4	3121	0.193	0.248	393	304	354

CU/XLPE/SWA/LSHF 3 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm²)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N03C01.5CT0XC0LWL	1.5	RM	15.3	375	12.1	15.2	33	25	25
N03C02.5CT0XC0LWL	2.5	RM	16.1	425	7.41	9.4	43	33	33
N03C004CT0XC0LWL	4	RM	17.4	509	4.61	5.8782	56	44	44
N03C006CT0XC0LWL	6	RM	18.5	598	3.08	3.9273	70	54	56
N03C010CT0XC0LWL	10	RM	20.9	853	1.83	2.3335	94	73	78
N03C016CT0XC0LWL	16	RM	22.9	1097	1.15	1.47	117	92	99
N03C025CT0XC0LWL	25	SM	24.3	1502	0.727	0.927	155	122	131
N03C035CT0XC0LWL	35	SM	26.3	1844	0.524	0.669	186	146	162
N03C050CT0XC0LWL	50	SM	29.5	2301	0.387	0.494	222	171	197
N03C070CT0XC0LWL	70	SM	33.8	3238	0.268	0.343	273	209	251
N03C095CT0XC0LWL	95	SM	37.3	4173	0.193	0.248	325	253	305
N03C120CT0XC0LWL	120	SM	40.7	5010	0.153	0.197	371	292	353
N03C150CT0XC0LWL	150	SM	46.2	6403	0.124	0.16	417	325	406
N03C185CT0XC0LWL	185	SM	50.2	7676	0.0991	0.129	479	370	463
N03C240CT0XC0LWL	240	SM	54.5	9570	0.0754	0.99	551	427	547
N03C300CT0XC0LWL	300	SM	59.4	11616	0.0601	0.081	613	481	628

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase, Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables Armoured

CU/XLPE/SWA/LSHF 4 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N04C01.5CT0XC0LWL	1.5	RM	16	414	12.1	15.2	33	25	25
N04C02.5CT0XC0LWL	2.5	RM	17	479	7.41	9.4	43	33	33
N04C004CT0XC0LWL	4	RM	18.4	582	4.61	5.8782	56	44	44
N04C006CT0XC0LWL	6	RM	20.3	768	3.08	3.9273	70	54	56
N04C010CT0XC0LWL	10	RM	22.3	1003	1.83	2.3335	94	73	78
N04C016CT0XC0LWL	16	RM	25.2	1434	1.15	1.47	117	92	99
N04C025CT0XC0LWL	25	SM	26.9	1850	0.727	0.927	155	122	131
N04C035CT0XC0LWL	35	SM	29.5	2316	0.524	0.669	186	146	162
N04C050CT0XC0LWL	50	SM	33.2	2900	0.387	0.494	222	171	197
N04C070CT0XC0LWL	70	SM	38.3	4129	0.268	0.343	273	209	251
N04C095CT0XC0LWL	95	SM	42	5293	0.193	0.248	325	253	305
N04C120CT0XC0LWL	120	SM	47.5	6802	0.153	0.197	371	292	353
N04C150CT0XC0LWL	150	SM	52	8132	0.124	0.16	417	325	406
N04C185CT0XC0LWL	185	SM	56	9747	0.0991	0.129	479	370	463
N04C240CT0XC0LWL	240	SM	62	12279	0.0754	0.99	551	427	547
N04C300CT0XC0LWL	300	SM	67.6	14944	0.0601	0.081	613	481	628

CU/XLPE/SWA/LSHF 4 Cores with Reduced Neutral

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N3HC025CT0XC0LWL	25/16	SM/RM	26.3	1731	0.727/1.1500	0.927/1.4700	155	122	131
N3HC035CT0XC0LWL	35/16	SM/RM	28.2	2073	0.524/1.1500	0.669/1.4700	186	146	162
N3HC050CT0XC0LWL	50/25	SM	31.8	2641	0.387/0.7270	0.494/0.9270	222	171	197
N3HC070CT0XC0LWL	70/35	SM	36.6	3733	0.268/0.5240	0.343/0.6690	273	209	251
N3HC095CT0XC0LWL	95/50	SM	40.3	4759	0.193/0.3870	0.248/0.4940	325	253	305
N3HC120CT0XC0LWL	120/70	SM	44.4	5859	0.153/0.2680	0.197/0.3430	371	292	353
N3HC150CT0XC0LWL	150/70	SM	49.6	7227	0.124/0.2680	0.16/0.3430	417	325	406
N3HC185CT0XC0LWL	185/95	SM	53.5	8772	0.0991/0.1930	0.129/0.2480	479	370	463
N3HC240CT0XC0LWL	240/120	SM	59.2	10992	0.0754/0.1530	0.099/0.1970	551	427	547
N3HC300CT0XC0LWL	300/150	SM	64.3	13270	0.601/0.1240	0.081/0.1600	613	481	628

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase, Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables Armoured

STRANDED ALUMINUM

Multi Core
XLPE Insulated
0.6/1 KV

Applications:

For indoor and outdoor installations in damp and wet locations.
Where mechanical damage is expected to occur.

Maximum operating temperature: 90˚C

Construction:

1. CONDUCTOR
Aluminum, semi-rigid class 2

2. INSULATION
Cross-linked polyethylene [XLPE]

3. ARMOUR
Galvanized Round Steel Wire

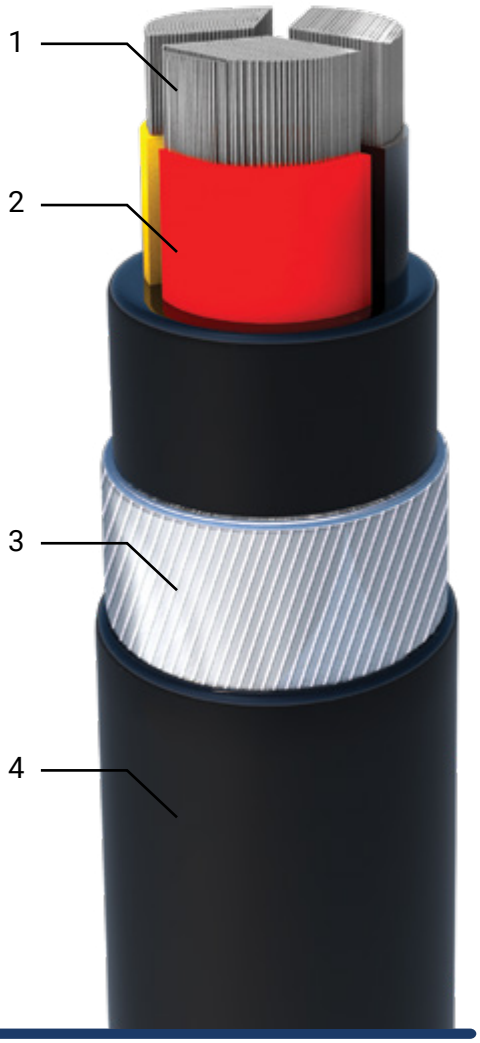
4. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

IEC 60502-1
IEC 60228

Rated Voltage:

0.6/1 kV



LSHF Cables Armoured

AL/XLPE/SWA/LSHF 2 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N04C016AT0XC0LWL	16	RM	21.9	719	1.91	2.45	107	82	90
N02C025AT0XC0LWL	25	RM	25.6	1052	1.2	1.54	139	107	112
N02C035AT0XC0LWL	35	RM	27.8	1221	0.868	1.113	170	127	139
N02C050AT0XC0LWL	50	SM	26.4	1176	0.641	0.822	201	150	166
N02C070AT0XC0LWL	70	SM	29.5	1448	0.443	0.569	247	190	211
N02C095AT0XC0LWL	95	SM	33	1902	0.32	0.411	297	231	254

AL/XLPE/SWA/LSHF 3 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N02C016AT0XC0LWL	16	RM	22.9	812	1.91	2.45	91	70	74
N02C025AT0XC0LWL	25	SM	24.3	1038	1.2	1.54	119	92	98
N02C035AT0XC0LWL	35	SM	26.3	1202	0.868	1.113	139	107	120
N02C050AT0XC0LWL	50	SM	29.5	1468	0.641	0.822	170	131	145
N02C070AT0XC0LWL	70	SM	33.8	1993	0.443	0.569	206	160	185
N02C095AT0XC0LWL	95	SM	37.3	2436	0.32	0.411	247	194	24
N02C120AT0XC0LWL	120	SM	40.7	2826	0.253	0.325	284	224	264
N02C150AT0XC0LWL	150	SM	46.2	3727	0.206	0.265	320	247	306
N02C185AT0XC0LWL	185	SM	50.2	4311	0.164	0.212	364	287	351
N02C240AT0XC0LWL	240	SM	54.5	5145	0.125	0.163	427	330	418
N02C300AT0XC0LWL	300	SM	59.4	6010	0.1	0.131	479	374	488

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase, Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

LSHF Cables Armoured

AL/XLPE/SWA/LSHF 4 Cores

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N04C016AT0XC0LWL	16	RM	25.2	1054	1.91	2.45	91	70	74
N04C025AT0XC0LWL	25	SM	26.9	1235	1.2	1.54	119	92	98
N04C035AT0XC0LWL	35	SM	29.5	1461	0.868	1.113	139	107	120
N04C050AT0XC0LWL	50	SM	33.2	1793	0.641	0.822	170	131	145
N04C070AT0XC0LWL	70	SM	38.3	2466	0.443	0.569	206	160	185
N04C095AT0XC0LWL	95	SM	42	2988	0.32	0.411	247	194	224
N04C120AT0XC0LWL	120	SM	47.5	3888	0.253	0.325	284	224	264
N04C150AT0XC0LWL	150	SM	52	4564	0.206	0.265	320	247	306
N04C185AT0XC0LWL	185	SM	56	5252	0.164	0.212	364	287	351
N04C240AT0XC0LWL	240	SM	62	6367	0.125	0.163	427	330	418
N04C300AT0XC0LWL	300	SM	67.6	7484	0.1	0.131	479	374	488

AL/XLPE/SWA/LSHF 4 Cores Cable with Reduced Neutral

Product Code	Conductor Size	Conductor Shape	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)		(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
					Ω/Km	Ω/Km	A	A	A
N3HC025AT0XC0LWL	25	SM/RM	26.3	1175.7	1.200/1.1910	1.5400/2.4500	119	92	98
N3HC035AT0XC0LWL	35	SM/RM	28.2	1337	0.868/1.9100	1.1130/2.4500	139	107	120
N3HC050AT0XC0LWL	50	SM	31.8	1658	0.641/1.2000	0.8220/1.5400	170	131	145
N3HC070AT0XC0LWL	70	SM	36.6	2271	0.443/0.8680	0.5690/1.1130	206	160	185
N3HC095AT0XC0LWL	95	SM	40.3	2753	0.32/0.6410	0.4110/0.8220	247	194	224
N3HC120AT0XC0LWL	120	SM	44.4	3257	0.253/0.4430	0.3250/0.5690	284	224	264
N3HC150AT0XC0LWL	150	SM	49.6	4135	0.206/0.4430	0.2650/0.5690	320	247	306
N3HC185AT0XC0LWL	185	SM	53.5	4824	0.164/0.3200	0.2120/0.4110	364	287	351
N3HC240AT0XC0LWL	240	SM	59.2	5829	0.125/0.2530	0.1630/0.3250	427	330	418
N3HC300AT0XC0LWL	300	SM	64.3	6783	0.1000/0.2060	0.1310/0.2650	479	374	488

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

RM : Round , Stranded
SM : Sector , Stranded
SM/RM : Sector for Phase, Round for Neutral

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables

Fire Resistance Cables Non Armoured

STRANDED Copper

Fire Resistant
Single Core
450/750 V

Applications:

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Construction:

1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

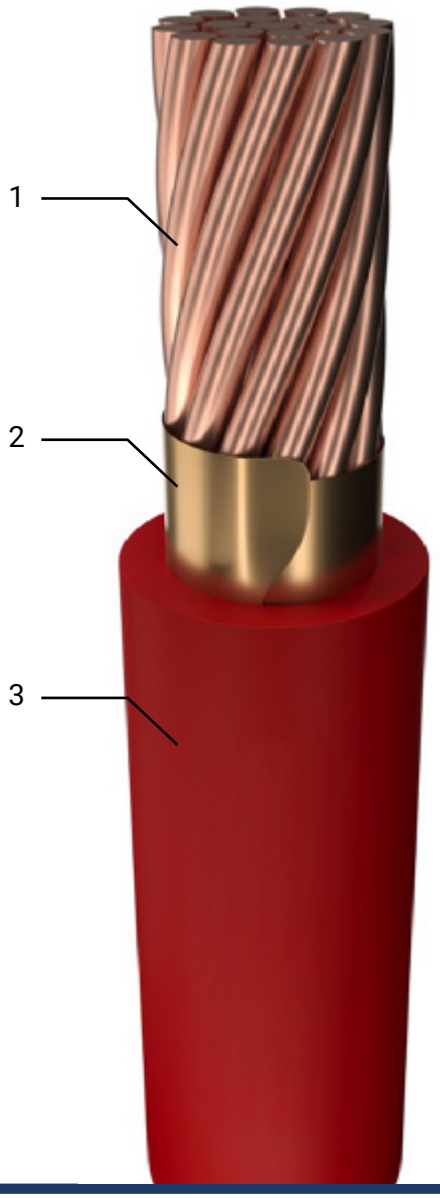
3. INSULATION
Low Smoke Halogen Free [LSHF]

Rated Voltage:

450/750 V

Standard:

BS 8592
BS 50525-3-41



Fire Resistance Cables Non Armoured

CU/MICA/LSHF 1 Core

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings	
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	In Free Air	In Pipes
				Ω/Km	Ω/Km	A	A
01C01.5CTMLB0000	1.5	3.7	26	12.1	15.43	21	19
01C02.5CTMLB0000	2.5	4.3	37	7.41	9.45	30	25
01C004CTMLB0000	4	4.9	54	4.61	5.88	40	33
01C006CTMLB0000	6	5.4	73	3.08	3.93	49	43
01C010CTMLB0000	10	6.6	116	1.83	2.34	69	62
01C016CTMLB0000	16	7.5	171	1.15	1.47	94	84
01C025CTMLB0000	25	9.0	262	0.727	0.93	118	81
01C035CTMLB0000	35	10.1	355	0.524	0.67	147	100
01C050CTMLB0000	50	11.8	480	0.387	0.5	197	122
01C070CTMLB0000	70	13.4	671	0.268	0.35	230	151
01C095CTMLB0000	95	15.3	921	0.193	0.25	289	191
01C120CTMLB0000	120	16.9	1155	0.153	0.2	337	219
01C150CTMLB0000	150	18.5	1434	0.124	0.16	385	252
01C185CTMLB0000	185	20.6	1778	0.0991	0.13	449	288
01C240CTMLB0000	240	23.3	2298	0.0754	0.1	542	345
01C300CTMLB0000	300	25.9	2872	0.0601	0.08	621	391
01C400CTMLB0000	400	29.1	3679	0.047	0.06	681	582
01C500CTMLB0000	500	32.6	4750	0.0366	0.05	760	629
01C630CTMLB0000	630	36.5	6014	0.0283	0.04	853	714

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Duct Temperature : 20°C

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables Non Armoured

STRANDED COPPER

Fire Resistant
Single Core
XLPE Insulated
0.6/1 KV

Applications:

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions

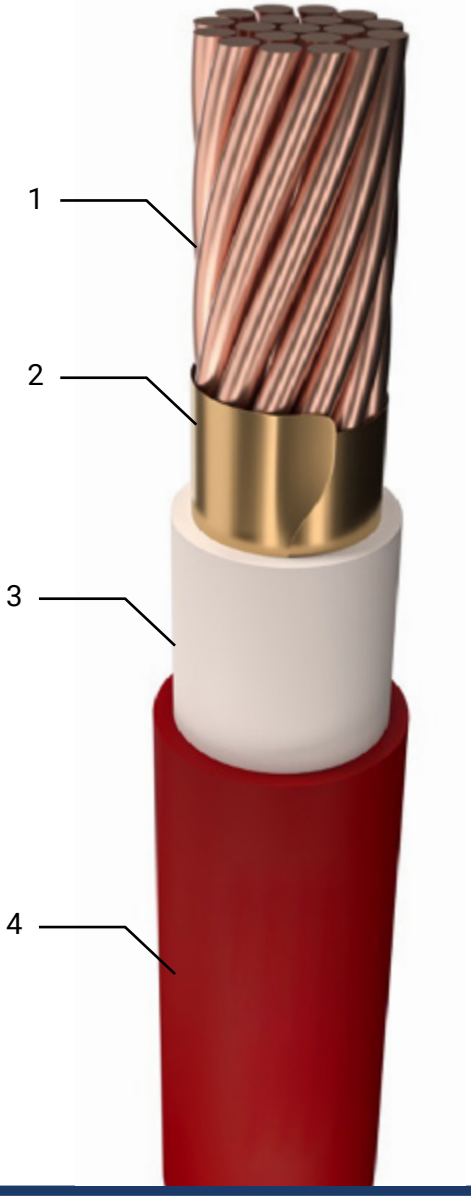
Construction:

1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)

4. SHEATH
Low Smoke Halogen Free [LSHF]



Standards:

IEC 60502-1
IEC 60228
IEC 60331(temp. 750^{0}C for 1.5 hr)
BS 6387 (CWZ category: ^{0}C is at temp. 950^{0}C for 3hrs)

Rated Voltage:

0.6/1 kV

Fire Resistance Cables Non Armoured

CU/MICA/XLPE/LSHF 1 Core Flat

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings	
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	In Ground	In Free Air
				Ω/Km	Ω/Km	A	A
01C01.5CTMXC000L	1.5	7.0	60	12.1	15.43	28	28
01C02.5CTMXC000L	2.5	7.4	71	7.41	9.45	41	43
01C004CTMXC000L	4	8.0	91	4.61	5.88	55	53
01C006CTMXC000L	6	8.5	112	3.08	3.93	68	65
01C010CTMXC000L	10	9.3	155	1.83	2.34	98	84
01C016CTMXC000L	16	10.2	214	1.15	1.47	116	116
01C025CTMXC000L	25	11.7	308	0.727	0.93	166	179
01C035CTMXC000L	35	12.8	405	0.524	0.67	199	220
01C050CTMXC000L	50	14.3	529	0.387	0.5	236	269
01C070CTMXC000L	70	16.1	729	0.268	0.35	288	340
01C095CTMXC000L	95	17.8	979	0.193	0.25	344	418
01C120CTMXC000L	120	19.6	1223	0.153	0.2	391	486
01C150CTMXC000L	150	21.4	1513	0.124	0.16	439	557
01C185CTMXC000L	185	23.5	1858	0.0991	0.13	496	646
01C240CTMXC000L	240	26.2	2384	0.0754	0.1	574	771
01C300CTMXC000L	300	28.8	2962	0.0601	0.08	647	918
01C400CTMXC000L	400	32.2	3784	0.047	0.06	732	1203
01C500CTMXC000L	500	35.9	4872	0.0366	0.05	826	1279
01C630CTMXC000L	630	40.6	6215	0.0283	0.04	925	1420

CU/MICA/XLPE/LSHF 1 Core Trefoil

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	In Ground	In Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
01C01.5CTMXC000L	1.5	7.0	60	12.1	15.428	28	19	21
01C02.5CTMXC000L	2.5	7.4	71	7.41	9.448	41	29	35
01C004CTMXC000L	4	8.0	91	4.61	5.878	62	45	50
01C006CTMXC000L	6	8.5	112	3.08	3.927	79	60	58
01C010CTMXC000L	10	9.3	155	1.83	2.333	104	77	80
01C016CTMXC000L	16	10.2	214	0.0366	0.046	134	98	115
01C025CTMXC000L	25	11.7	308	0.727	0.926	172	124	150
01C035CTMXC000L	35	12.8	405	0.524	0.668	208	155	190
01C050CTMXC000L	50	14.3	529	0.387	0.493	242	184	230
01C070CTMXC000L	70	16.1	729	0.268	0.341	299	226	293
01C095CTMXC000L	95	17.8	979	0.193	0.246	355	273	365
01C120CTMXC000L	120	19.6	1223	0.153	0.195	406	308	440
01C150CTMXC000L	150	21.4	1513	0.124	0.158	451	350	485
01C185CTMXC000L	185	23.5	1858	0.0991	0.126	514	398	585
01C240CTMXC000L	240	26.2	2384	0.0754	0.096	590	457	695
01C300CTMXC000L	300	28.8	2962	0.0601	0.076	660	524	839
01C400CTMXC000L	400	32.2	3784	0.047	0.059	744	603	968
01C500CTMXC000L	500	35.9	4872	0.0366	0.046	840	695	1100
01C630CTMXC000L	630	40.6	6215	0.0283	0.04	942	794	1265

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C

Ground Temperature : 20°C
Depth of Laying: 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables Non Armoured

STRANDED COPPER

Fire Resistant
Multi Core
XLPE Insulated
0.6/1 KV

Applications:

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions.

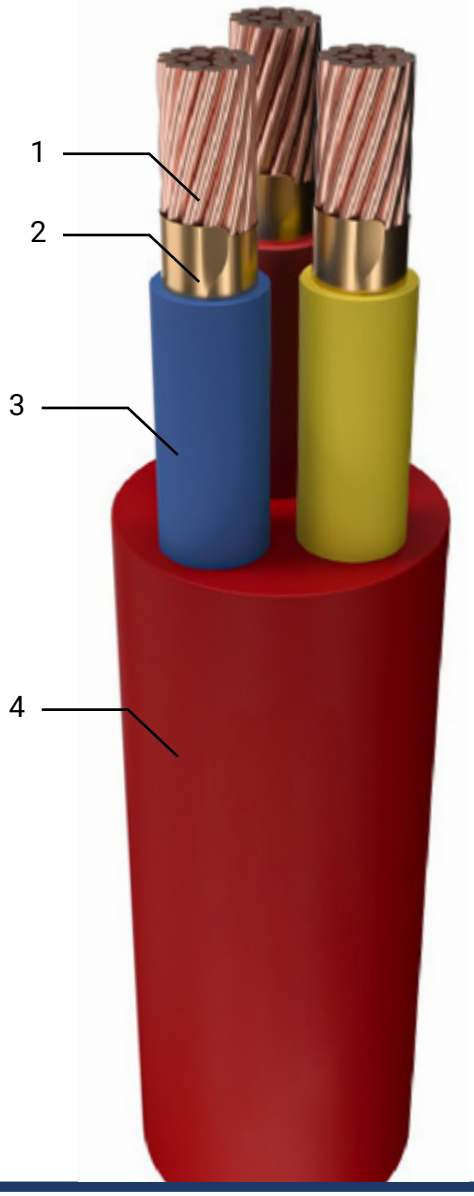
Construction:

1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)

4. SHEATH
Low Smoke Halogen Free [LSHF]



Standards:

IEC 60502-1
IEC 60228
IEC 60331(temp. 750^{O}C for 1.5 hr)
BS 6387 (CWZ category: ^{O}C is at temp. 950^{O}C for 3hrs)

Rated Voltage:

0.6/1 kV

Fire Resistance Cables Non Armoured

CU/MICA/XLPE/LSHF 2 Cores

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
02C01.5CTMXC000L	1.5	11.5	168	12.1	15.428	40	31	29
02C02.5CTMXC000L	2.5	12.3	202	7.41	9.448	51	40	39
02C004CTMXC000L	4	13.5	257	4.61	5.878	68	52	53
02C006CTMXC000L	6	14.5	314	3.08	3.927	80	66	67
02C010CTMXC000L	10	16.1	424	1.83	2.333	95	87	90
02C016CTMXC000L	16	17.8	572	1.15	1.466	125	112	116
02C025CTMXC000L	25	20.9	827	0.727	0.926	188	130	150
02C035CTMXC000L	35	23.1	1073	0.524	0.668	227	165	185
02C050CTMXC000L	50	26.1	1403	0.387	0.493	276	199	226
02C070CTMXC000L	70	29.7	1914	0.268	0.341	337	247	289
02C095CTMXC000L	95	33.1	2534	0.193	0.246	405	302	352
02C120CTMXC000L	120	36.9	3180	0.153	0.195	463	336	419
02C150CTMXC000L	150	40.3	3898	0.124	0.158	519	378	478
02C185CTMXC000L	185	44.7	4809	0.0991	0.126	590	438	560
02C240CTMXC000L	240	50.1	6155	0.0754	0.096	682	513	663

CU/MICA/XLPE/LSHF 3 Cores

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
03C01.5CTMXC000L	1.5	12.1	191	12.1	15.428	33	25	25
03C02.5CTMXC000L	2.5	12.9	231	7.41	9.448	43	33	33
03C004CTMXC000L	4	14.2	301	4.61	5.878	56	44	44
03C006CTMXC000L	6	15.4	379	3.08	3.927	70	54	56
03C010CTMXC000L	10	17.0	519	1.83	2.333	94	73	78
03C016CTMXC000L	16	18.9	718	1.15	1.466	122	90	100
03C025CTMXC000L	25	19.6	893	0.727	0.926	150	122	131
03C035CTMXC000L	35	21.6	1178	0.524	0.668	186	141	158
03C050CTMXC000L	50	24.6	1531	0.387	0.493	220	171	193
03C070CTMXC000L	70	28.1	2171	0.268	0.341	270	209	246
03C095CTMXC000L	95	31.5	2951	0.193	0.246	324	247	298
03C120CTMXC000L	120	34.8	3664	0.153	0.195	368	292	347
03C150CTMXC000L	150	38.9	4515	0.124	0.158	410	321	399
03C185CTMXC000L	185	42.9	5598	0.0991	0.126	464	370	457
03C240CTMXC000L	240	47.0	7292	0.0754	0.096	537	427	539
03C300CTMXC000L	300	51.9	9102	0.0601	0.0766	605	486	622
03C400CTMXC000L	400	59.3	11737	0.047	0.0599	688	547	701

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables Non Armoured

CU/MICA/XLPE/LSHF 4 Cores

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm²)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
04C01.5CTMXC000L	1.5	13.0	223	12.1	15.428	33	25	25
04C02.5CTMXC000L	2.5	14	277	7.41	9.448	43	33	33
04C004CTMXC000L	4	15.4	364	4.61	5.878	56	44	44
04C006CTMXC000L	6	16.7	461	3.08	3.927	70	54	56
04C010CTMXC000L	10	18.6	646	1.83	2.333	94	73	78
04C016CTMXC000L	16	20.7	901	1.15	1.466	122	90	100
04C025CTMXC000L	25	22.6	1181	0.727	0.926	150	122	131
04C035CTMXC000L	35	25.0	1554	0.524	0.668	186	141	158
04C050CTMXC000L	50	28.7	2026	0.387	0.493	225	162	197
04C070CTMXC000L	70	32.8	2889	0.268	0.341	276	204	249
04C095CTMXC000L	95	36.5	3898	0.193	0.246	330	243	303
04C120CTMXC000L	120	40.6	4884	0.153	0.195	374	282	352
04C150CTMXC000L	150	44.1	5971	0.124	0.158	421	321	405
04C185CTMXC000L	185	49.1	7461	0.0991	0.126	475	369	467
04C240CTMXC000L	240	54.9	9692	0.0754	0.096	551	431	554
04C300CTMXC000L	300	60.5	12076	0.0601	0.076	621	493	636
04C400CTMXC000L	400	69.1	15588	0.047	0.059	706	571	741

CU/MICA/XLPE/LSHF 4 CORES with reduced neutral

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm²)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
3HC025CTMXC000L	25/16	22.0	1084	0.727	0.9269977	150	122	128
3HC035CTMXC000L	35/16	23.9	1363	0.524	0.6681524	177	141	158
3HC050CTMXC000L	50/25	27.3	1812	0.387	0.4934637	210	171	193
3HC070CTMXC000L	70/35	31.2	2557	0.268	0.3417268	255	209	246
3HC095CTMXC000L	95/50	35.0	3449	0.193	0.2460943	305	247	298
3HC120CTMXC000L	120/70	38.9	4391	0.153	0.1950903	348	292	347
3HC150CTMXC000L	150/70	42.7	5217	0.124	0.1581124	390	321	399
3HC185CTMXC000L	185/95	46.6	6580	0.0991	0.12636241	426	370	457
3HC240CTMXC000L	240/120	52.1	8508	0.0754	0.09614254	501	427	539
3HC300CTMXC000L	300/150	57.4	10578	0.0601	0.07663351	553	486	622
3HC400CTMXC000L	400/185	65.1	13566	0.047	0.0599297	634	547	701

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables Armoured

STRANDED COPPER

Fire Resistant
Single Core
XLPE Insulated
0.6/1 KV

Applications:

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions

Construction:

1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)

4. ARMOUR
Aluminum Wire

5. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

EC 60502-1
IEC 60228
IEC 60331(temp. 750OC for 1.5 hr)
BS 6387 (CWZ category: ^{O}C is at temp. 950^{O}C for 3hrs)
BS 7846 -F2

Rated Voltage:

0.6/1 kV

Fire Resistance Cables Armoured

CU/MICA/XLPE/AWA/LSHF 1 Core Flat

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings	
	(mm²)	(mm)	(kg/km)	DC at 20 ˚C	AC at 90 ˚C	in Ground	In Free Air
				Ω/Km	Ω/Km	A	A
01C025CTMXC0LJL	25	17.2	560	0.727	0.927	170	162
01C035CTMXC0LJL	35	18.3	675	0.524	0.668	203	197
01C050CTMXC0LJL	50	20	840	0.387	0.494	239	238
01C070CTMXC0LJL	70	22	1095	0.268	0.342	291	297
01C095CTMXC0LJL	95	23.5	1385	0.193	0.247	345	360
01C120CTMXC0LJL	120	25.3	1675	0.153	0.196	389	414
01C150CTMXC0LJL	150	27.1	1995	0.124	0.159	343	471
01C185CTMXC0LJL	185	29.4	2415	0.099	0.128	485	538
01C240CTMXC0LJL	240	32.1	3045	0.075	0.098	553	630
01C300CTMXC0LJL	300	35	3705	0.060	0.079	614	717
01C400CTMXC0LJL	400	39.1	4740	0.047	0.063	673	809
01C500CTMXC0LJL	500	43.1	5955	0.037	0.051	738	913
01C630CTMXC0LJL	630	47.2	7415	0.028	0.042	801	1019

CU/MICA/XLPE/AWA/LSHF 1 Core Trefoil

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm²)	(mm)	(kg/km)	DC at 20 ˚C	AC at 90 ˚C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
01C025CTMXC0LJL	25	17.2	560	0727	0.927	172	130	158
01C035CTMXC0LJL	35	18.3	675	0.524	0.668	206	157	192
01C050CTMXC0LJL	50	20	840	0.387	0.494	243	187	232
01C070CTMXC0LJL	70	22	1095	0.268	0.342	296	230	289
01C095CTMXC0LJL	95	23.5	1385	0.193	0.247	352	275	351
01C120CTMXC0LJL	120	25.3	1675	0.153	0.196	399	314	405
01C150CTMXC0LJL	150	27.1	1995	o.124	0.159	445	354	461
01C185CTMXC0LJL	185	29.4	2415	0.099	0.128	500	401	529
01C240CTMXC0LJL	240	32.1	3045	0.075	0.098	573	466	622
01C300CTMXC0LJL	300	35	3705	0.060	0.079	640	528	711
01C400CTMXC0LJL	400	39.1	4740	0.047	0.063	710	593	810
01C500CTMXC0LJL	500	43.1	5955	0.037	0.051	787	668	923
01C630CTMXC0LJL	630	47.2	7415	0.028	0.042	864	745	1038

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables Armoured

STRANDED COPPER

Fire Resistant
Multi Core
XLPE Insulated
0.6/1 KV

Applications:

These cables are used in hazardous areas where safety and circuit integrity are highly required during fire conditions

Construction:

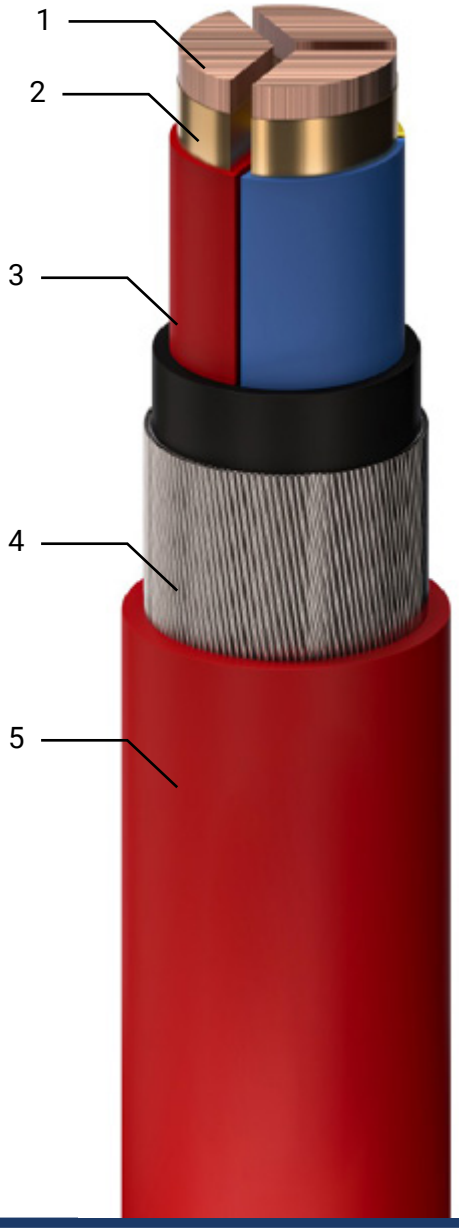
1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)

4. ARMOUR
Galvanized Round Steel Wire

5. SHEATH
Low Smoke Halogen Free [LSHF]



Standards:

IEC 60502-1
IEC 60228
IEC 60331(temp. 750^{O}C for 1.5 hr)
BS 6387 (CWZ category: ^{O}C is at temp. 950^{O}C for 3hrs)
BS 7846 -F2

Rated Voltage:

0.6/1 kV

Fire Resistance Cables Armoured

CU/MICA/XLPE/SWA/LSHF 2 Cores

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
02C01.5CTMXC0LWL	1.5	15.8	386	12.1	15.428	33	23	26
02C02.5CTMXC0LWL	2.5	16.6	426	7.41	9.448	43	31	35
02C004CTMXC0LWL	4	17.8	493	4.61	5.878	60	52	52
02C006CTMXC0LWL	6	18.8	558	3.08	3.927	75	66	66
02C010CTMXC0LWL	10	21.1	770	1.83	2.333	100	87	90
02C016CTMXC0LWL	16	22.8	938	1.15	1.466	120	100	116
02C025CTMXC0LWL	25	26.6	1361	0.727	0.926	187	139	161
02C035CTMXC0LWL	35	28.8	1635	0.524	0.668	226	166	168
02C050CTMXC0LWL	50	31.8	1984	0.387	0.493	274	198	240
02C070CTMXC0LWL	70	35.8	2540	0.268	0.341	332	243	296
02C095CTMXC0LWL	95	40.2	3444	0.193	0.246	402	297	369
02C120CTMXC0LWL	120	44.0	4123	0.153	0.195	458	341	430
02C150CTMXC0LWL	150	47.4	4850	0.124	0.315	512	385	488
02C185CTMXC0LWL	185	53.4	6279	0.0991	0.126	580	444	569
02C240CTMXC0LWL	240	58.8	7656	0.0754	0.096	667	515	666

CU/MICA/XLPE/SWA/LSHF 3 Cores

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
03C01.5CTMXC0LWL	1.5	16.4	426	12.1	15.428	33	24	26
03C02.5CTMXC0LWL	2.5	17.2	475	7.41	9.448	43	31	35
03C004CTMXC0LWL	4	18.5	559	4.61	5.878	56	44	44
03C006CTMXC0LWL	6	19.7	651	3.08	3.927	70	54	56
03C010CTMXC0LWL	10	22.0	912	1.83	2.333	90	73	78
03C016CTMXC0LWL	16	23.9	1136	1.15	1.466	117	92	99
03C025CTMXC0LWL	25	25.3	1575	0.727	0.926	155	122	131
03C035CTMXC0LWL	35	27.3	1917	0.524	0.668	180	146	162
03C050CTMXC0LWL	50	30.5	2396	0.387	0.493	232	168	206
03C070CTMXC0LWL	70	35.2	3409	0.268	0.341	286	209	262
03C095CTMXC0LWL	95	38.8	4323	0.193	0.246	342	253	322
03C120CTMXC0LWL	120	42.1	5164	0.153	0.195	390	290	375
03C150CTMXC0LWL	150	47.6	6620	0.124	0.158	434	330	426
03C185CTMXC0LWL	185	51.6	7939	0.0991	0.126	490	375	490
03C240CTMXC0LWL	240	56.1	9868	0.0754	0.096	565	436	579
03C300CTMXC0LWL	300	61.0	11925	0.0601	0.076	634	496	663
03C400CTMXC0LWL	400	68.2	14918	0.047	0.059	715	567	769

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.

Fire Resistance Cables Armoured

CU/MICA/XLPE/SWA/LSHF 4 Cores

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
04C01.5CTMXC0LWL	1.5	17.3	476	12.1	15.428	33	24	26
04C02.5CTMXC0LWL	2.5	18.3	541	7.41	9.448	43	31	35
04C004CTMXC0LWL	4	19.7	644	4.61	5.878	56	44	44
04C006CTMXC0LWL	6	21.7	854	3.08	3.927	70	54	56
04C010CTMXC0LWL	10	23.6	1065	1.83	2.333	90	73	78
04C016CTMXC0LWL	16	26.4	1498	1.15	1.466	117	92	99
04C025CTMXC0LWL	25	28.3	1957	0.727	0.926	154	116	136
04C035CTMXC0LWL	35	30.9	2418	0.524	0.668	185	140	166
04C050CTMXC0LWL	50	34.6	3009	0.387	0.493	238	174	218
04C070CTMXC0LWL	70	40.1	4322	0.268	0.341	293	218	277
04C095CTMXC0LWL	95	43.8	5491	0.193	0.246	350	260	337
04C120CTMXC0LWL	120	49.3	7082	0.153	0.195	397	301	393
04C150CTMXC0LWL	150	52.8	8360	0.124	0.158	446	341	451
04C185CTMXC0LWL	185	57.8	10083	0.0991	0.126	503	390	521
04C240CTMXC0LWL	240	64.0	12695	0.0754	0.096	579	456	614
04C300CTMXC0LWL	300	69.6	15375	0.0601	0.076	649	513	702
04C400CTMXC0LWL	400	79.9	20251	0.047	0.059	725	584	810

CU/MICA/XLPE/SWA/LSHF 4 CORES with reduced neutral

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 °C	AC at 90 °C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
3HC025CTMXC0LWL	25+16	27.7	1841	0.727	0.926	155	122	131
3HC035CTMXC0LWL	35+16	29.6	2178	0.524	0.668	177	146	162
3HC050CTMXC0LWL	50+25	33.2	2755	0.387	0.493	222	171	197
3HC070CTMXC0LWL	70+35	38.5	3926	0.268	0.341	250	209	250
3HC095CTMXC0LWL	95+50	42.1	4956	0.193	0.246	310	253	305
3HC120CTMXC0LWL	120+70	46.2	6070	0.153	0.195	345	292	353
3HC150CTMXC0LWL	150+70	51.4	7554	0.124	0.158	390	325	406
3HC185CTMXC0LWL	185+95	55.3	9109	0.0991	0.126	425	370	460
3HC240CTMXC0LWL	240+120	61.2	11367	0.0754	0.096	495	427	547
3HC300CTMXC0LWL	300+150	66.3	13658	0.0601	0.076	553	475	628
3HC400CTMXC0LWL	400+185	75.5	17868	0.047	0.059	635	540	720

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.

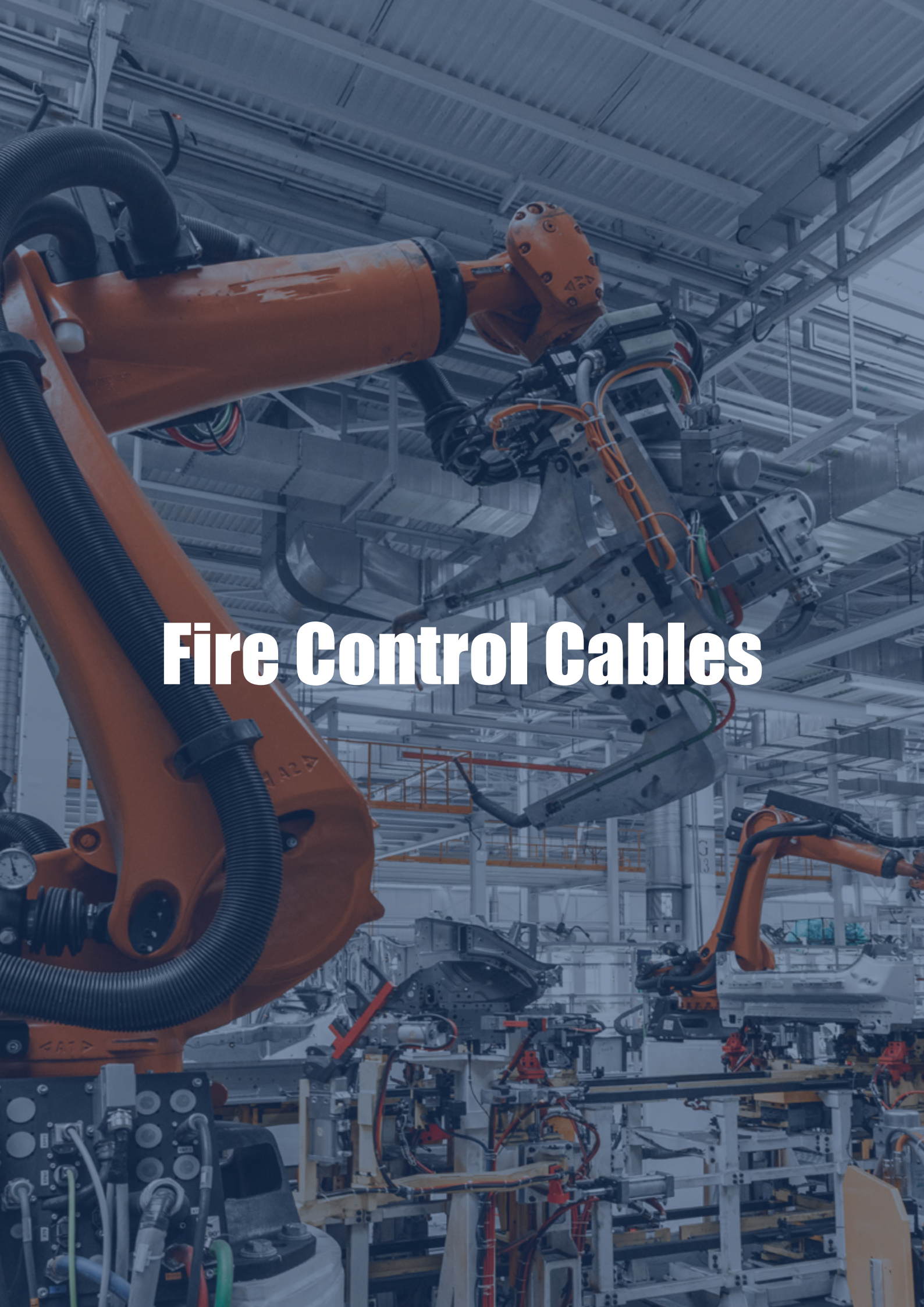
Fire Resistance Cables Armoured

CU/MICA/XLPE/SWA/LSHF 5 Core

Product Code	Conductor Size	Overall Diameter	Cable Weight	Max. Conductor Resistance		Current Ratings		
	(mm^2)	(mm)	(kg/km)	DC at 20 ˚C	AC at 90 ˚C	in Ground	in Duct	In Free Air
				Ω/Km	Ω/Km	A	A	A
05C01.5CTMXC0LWL	1.5	18.4	535	12.1	15.428	25	21	20
05C02.5CTMXC0LWL	2.5	19.4	613	7.41	9.448	33	27	30
05C004CTMXC0LWL	4	21.7	841	4.61	5.878	56	44	44
05C006CTMXC0LWL	6	23.2	984	3.08	3.927	70	54	56
05C010CTMXC0LWL	10	25.3	1249	1.83	2.333	90	73	78
05C016CTMXC0LWL	16	28.3	1755	1.15	1.466	117	92	99
05C025CTMXC0LWL	25	32.5	2360	0.727	0.926	155	122	131
05C035CTMXC0LWL	35	35.7	2976	0.524	0.668	180	146	162
05C050CTMXC0LWL	50	38.5	3887	0.387	0.493	233	170	213
05C070CTMXC0LWL	70	42.4	5113	0.268	0.341	287	213	271
05C095CTMXC0LWL	95	48.0	7013	0.193	0.246	343	254	330
05C120CTMXC0LWL	120	52.4	8408	0.153	0.195	389	294	385
05C150CTMXC0LWL	150	57.2	10045	0.124	0.158	437	334	441
05C185CTMXC0LWL	185	63.4	12266	0.0991	0.126	492	382	510
05C240CTMXC0LWL	240	69.9	15392	0.0754	0.096	567	446	601
05C300CTMXC0LWL	300	77.9	19582	0.0601	0.076	636	502	687
05C400CTMXC0LWL	400	87.4	24548	0.047	0.059	710	572	793

Installation Conditions for above ratings:
Ambient Air Temperature : 30°C
Ground Temperature : 20°C
Depth Of Laying : 0.50 Mt.
Soil Thermal Resistivity : 1.0 °C m/W

The above dimensions are approximate and subject to manufacturing tolerance.



Fire Control Cables

Fire Control Cables Non Armoured

Fire Resistance
Control Cables
Non Armored

Applications:

hazardous areas where safety and circuit integrity are highly required during fire conditions.
Fire Resistance cable with glass Mica tape 950°C in accordance with IEC 60331 & BS 6387 category C, W and Z

Construction:

1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)
Alternative: Low Smoke Halogen Free (LSHF)

4. SHEATH
Low Smoke Halogen Free [LSHF]

Standards:

IEC 60502-1
IEC 60228
IEC 60331(temp. 750^{O}C for 1.5 hr)
BS 6387 (CWZ category: ^{O}C is at temp. 950^{O}C for 3hrs)

Rated Voltage:

600/1000 V according to IEC 60502-1

Fire Control Cables Non Armoured

Fire Resistance Control Cables, Non Armored, XLPE Insulated
CU/MICA/XLPE/LSHF

Product Code	Number of Cores	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
05C01.5CTMXC000L	5	1.5	0.7	13.5	245
07C01.5CTMXC000L	7	1.5	0.7	14.6	293
12C01.5CTMXC000L	12	1.5	0.7	18.9	491
19C01.5CTMXC000L	19	1.5	0.7	22	683
27C01.5CTMXC000L	27	1.5	0.7	26.2	967
37C01.5CTMXC000L	37	1.5	0.7	29.3	1227
48C01.5CTMXC000L	48	1.5	0.7	33.6	1610
05C02.5CTMXC000L	5	2.5	0.7	14.5	306
07C02.5CTMXC000L	7	2.5	0.7	15.7	372
12C02.5CTMXC000L	12	2.5	0.7	20.5	634
19C02.5CTMXC000L	19	2.5	0.7	23.9	893
27C02.5CTMXC000L	27	2.5	0.7	28.6	1276
37C02.5CTMXC000L	37	2.5	0.7	32.1	1642
48C02.5CTMXC000L	48	2.5	0.7	37	2167
05C004CTMXC000L	5	4	0.7	16.1	411
07C004CTMXC000L	7	4	0.7	17.5	509
12C004CTMXC000L	12	4	0.7	23	875
19C004CTMXC000L	19	4	0.7	26.9	1251
27C004CTMXC000L	27	4	0.7	32.3	1794
37C004CTMXC000L	37	4	0.7	36.5	2345
48C004CTMXC000L	48	4	0.7	42	3081

The above data is approximate and subject to manufacturing tolerance.

Fire Control Cables Armoured

Fire Resistance
Control Cables
Armored

Applications:

These cables are used for interconnecting control devices mainly in hazardous areas where safety and circuit integrity are highly required during fire conditions. Fire Resistance cable with glass Mica tape 950°C in accordance with IEC 60331 & BS 6387 category C, W and Z

Construction:

1. CONDUCTOR
Copper, Stranded class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)
Alternative: Low Smoke Halogen Free (LSHF)

4. BEDDING
Low Smoke Halogen Free [LSHF]

5. ARMOR
Galvanized Round Steel Wire (GSWA)

6. SHEATH
Low Smoke Halogen Free [LSHF]

Rated Voltage:

600/1000 V according to IEC 60502-1

Fire Control Cables Armoured

Fire Resistance Control Cables, Armored, XLPE Insulated
CU/MICA/XLPE/SWA/LSHF

Product Code	Number of Cores	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
05C01.5CTMXC0LWL	5	1.5	0.7	17.8	510
07C01.5CTMXC0LWL	7	1.5	0.7	18.9	579
12C01.5CTMXC0LWL	12	1.5	0.7	23.9	918
19C01.5CTMXC0LWL	19	1.5	0.7	27	1179
27C01.5CTMXC0LWL	27	1.5	0.7	31.9	1670
37C01.5CTMXC0LWL	37	1.5	0.7	35	2022
48C01.5CTMXC0LWL	48	1.5	0.7	39.5	2446
05C02.5CTMXC0LWL	5	2.5	0.7	18.8	586
07C02.5CTMXC0LWL	7	2.5	0.7	20.7	767
12C02.5CTMXC0LWL	12	2.5	0.7	25.5	1080
19C02.5CTMXC0LWL	19	2.5	0.7	29.6	1579
27C02.5CTMXC0LWL	27	2.5	0.7	34.3	2030
37C02.5CTMXC0LWL	37	2.5	0.7	38	2498
48C02.5CTMXC0LWL	48	2.5	0.7	44.1	3379
05C004CTMXC0LWL	5	4	0.7	21.1	811
07C004CTMXC0LWL	7	4	0.7	22.5	938
12C004CTMXC0LWL	12	4	0.7	28.7	1521
19C004CTMXC0LWL	19	4	0.7	32.6	2008
27C004CTMXC0LWL	27	4	0.7	38.2	2609
37C004CTMXC0LWL	37	4	0.7	43.6	3581
48C004CTMXC0LWL	48	4	0.7	49.1	4393

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables

Fire Instrumentation Cables Non Armoured

Fire Resistant
Multi Pair/Triple & Core Cables,
Non Armored
XLPE Insulated, Overall Shielding

Applications:

These cables are used as signal carrier for connecting electrical instrument circuits mainly in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Fire Resistance cable with glass Mica tape 950°C in accordance with IEC 60331 & BS 6387 category C, W and Z

Construction:

1. CONDUCTOR
Stranded Copper class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)
Alternative: Low Smoke Halogen Free (LSHF)

4. SHIELDING
Overall Shielded

5. SHEATH
Low Smoke Halogen Free [LSHF]

Rated Voltage:

500 V according to BS EN 50288-7

Fire Instrumentation Cables Non Armoured

Fire Resistance Multi Pair Cables, Non Armored, Overall Shielded, XLPE Insulated CU/MICA/XLPE/OS/LSHF

Product Code	No of Pairs	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
01P0.75CTMXAOS00L	1	0.75	0.44	7.85	67
02P0.75CTMXAOS00L	2	0.75	0.44	11.71	118
04P0.75CTMXAOS00L	4	0.75	0.44	13.66	182
06P0.75CTMXAOS00L	6	0.75	0.44	16.6	259
10P0.75CTMXAOS00L	10	0.75	0.44	21.49	405
15P0.75CTMXAOS00L	15	0.75	0.44	24.95	571
20P0.75CTMXAOS00L	20	0.75	0.44	28.13	739
01P001CTMXAOS00L	1	1	0.44	8.41	75
02P001CTMXAOS00L	2	1	0.44	12.63	134
04P001CTMXAOS00L	4	1	0.44	14.76	211
06P001CTMXAOS00L	6	1	0.44	17.98	300
10P001CTMXAOS00L	10	1	0.44	23.33	472
15P001CTMXAOS00L	15	1	0.44	27.11	669
20P001CTMXAOS00L	20	1	0.44	30.57	867
01P01.5CTMXAOS00L	1	1.5	0.44	8.87	87
02P01.5CTMXAOS00L	2	1.5	0.44	13.38	158
04P01.5CTMXAOS00L	4	1.5	0.44	15.88	263
06P01.5CTMXAOS00L	6	1.5	0.44	19.31	376
10P01.5CTMXAOS00L	10	1.5	0.44	25.04	593
15P01.5CTMXAOS00L	15	1.5	0.44	29.08	844
20P01.5CTMXAOS00L	20	1.5	0.44	32.78	1096
01P02.5CTMXAOS00L	1	2.5	0.53	10.05	114
02P02.5CTMXAOS00L	2	2.5	0.53	15.52	219
04P02.5CTMXAOS00L	4	2.5	0.53	18.41	371
06P02.5CTMXAOS00L	6	2.5	0.53	22.41	533
10P02.5CTMXAOS00L	10	2.5	0.53	29.31	860
15P02.5CTMXAOS00L	15	2.5	0.53	34.02	1229
20P02.5CTMXAOS00L	20	2.5	0.53	38.34	1598

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Non Armoured

Fire Resistance Multi Triple Cables, XLPE Insulated, Overall Shielded, Non Armored
CU/MICA/XLPE/OS/LSHF

Product Code	No of Triples	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
01T0.75CTMXAOS00L	1	0.75	0.44	8.31	82
02T0.75CTMXAOS00L	2	0.75	0.44	13.02	152
04T0.75CTMXAOS00L	4	0.75	0.44	15.45	252
06T0.75CTMXAOS00L	6	0.75	0.44	18.6	351
10T0.75CTMXAOS00L	10	0.75	0.44	24.31	567
12T0.75CTMXAOS00L	12	0.75	0.44	25.18	653
15T0.75CTMXAOS00L	15	0.75	0.44	28.28	807
01T001CTMXAOS00L	1	1	0.44	8.91	93
02T001CTMXAOS00L	2	1	0.44	14.06	175
04T001CTMXAOS00L	4	1	0.44	16.7	293
06T001CTMXAOS00L	6	1	0.44	20.36	420
10T001CTMXAOS00L	10	1	0.44	26.39	664
12T001CTMXAOS00L	12	1	0.44	27.34	767
15T001CTMXAOS00L	15	1	0.44	30.72	948
01T01.5CTMXAOS00L	1	1.5	0.44	9.41	111
02T01.5CTMXAOS00L	2	1.5	0.44	15.12	216
04T01.5CTMXAOS00L	4	1.5	0.44	17.75	359
06T01.5CTMXAOS00L	6	1.5	0.44	21.66	518
10T01.5CTMXAOS00L	10	1.5	0.44	28.32	838
12T01.5CTMXAOS00L	12	1.5	0.44	29.34	972
15T01.5CTMXAOS00L	15	1.5	0.44	32.96	1202
01T02.5CTMXAOS00L	1	2.5	0.53	10.68	149
02T02.5CTMXAOS00L	2	2.5	0.53	17.32	294
04T02.5CTMXAOS00L	4	2.5	0.53	20.6	512
06T02.5CTMXAOS00L	6	2.5	0.53	25.36	754
10T02.5CTMXAOS00L	10	2.5	0.53	33.11	1221
12T02.5CTMXAOS00L	12	2.5	0.53	34.31	1421
15T02.5CTMXAOS00L	15	2.5	0.53	38.53	1758

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Non Armoured

Fire Resistance Multi Core Cables, Non Armored, Overall Shielded, XLPE Insulated CU/MICA/XLPE/OS/LSHF

Product Code	Number of Cores	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
02C0.75CTMXAOS00L	2	0.75	0.44	7.85	66
03C0.75CTMXAOS00L	3	0.75	0.44	8.31	82
04C0.75CTMXAOS00L	4	0.75	0.44	9.05	99
05C0.75CTMXAOS00L	5	0.75	0.44	9.85	116
07C0.75CTMXAOS00L	7	0.75	0.44	10.97	150
12C0.75CTMXAOS00L	12	0.75	0.44	14.49	240
19C0.75CTMXAOS00L	19	0.75	0.44	17.09	354
24C0.75CTMXAOS00L	24	0.75	0.44	20.15	447
02C001CTMXAOS00L	2	1	0.44	8.41	75
03C001CTMXAOS00L	3	1	0.44	8.91	93
04C001CTMXAOS00L	4	1	0.44	9.73	113
05C001CTMXAOS00L	5	1	0.44	10.61	133
07C001CTMXAOS00L	7	1	0.44	12.01	179
12C001CTMXAOS00L	12	1	0.44	15.65	279
19C001CTMXAOS00L	19	1	0.44	18.49	414
24C001CTMXAOS00L	24	1	0.44	21.83	523
02C01.5CTMXAOS00L	2	1.5	0.44	8.87	87
03C01.5CTMXAOS00L	3	1.5	0.44	9.41	110
04C01.5CTMXAOS00L	4	1.5	0.44	10.29	135
05C01.5CTMXAOS00L	5	1.5	0.44	11.43	166
07C01.5CTMXAOS00L	7	1.5	0.44	12.7	217
12C01.5CTMXAOS00L	12	1.5	0.44	16.81	351
19C01.5CTMXAOS00L	19	1.5	0.44	19.84	523
24C01.5CTMXAOS00L	24	1.5	0.44	23.41	660
02C02.5CTMXAOS00L	2	2.5	0.53	10.05	114
03C02.5CTMXAOS00L	3	2.5	0.53	10.88	153
04C02.5CTMXAOS00L	4	2.5	0.53	11.91	190
05C02.5CTMXAOS00L	5	2.5	0.53	13.02	227
07C02.5CTMXAOS00L	7	2.5	0.53	14.67	307
12C02.5CTMXAOS00L	12	2.5	0.53	19.46	501
19C02.5CTMXAOS00L	19	2.5	0.53	22.99	752
24C02.5CTMXAOS00L	24	2.5	0.53	27.15	949

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Non Armoured

Fire Resistant
Multi Pair/Triple Cables,
Non Armored XLPE Insulated,
Individual & Overall Shielding

Applications:

These cables are used as signal carrier for connecting electrical instrument circuits mainly in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Fire Resistance cable with glass Mica tape 950°C in accordance with IEC 60331 & BS 6387 category C, W and Z

Construction:

1. CONDUCTOR
Stranded Copper class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)
Alternative: Low Smoke Halogen Free (LSHF)

4. SHIELDING
Individual & Overall Shielded

5. SHEATH
Low Smoke Halogen Free [LSHF]

Rated Voltage:

500 V according to BS EN 50288-7

Fire Instrumentation Cables Non Armoured

Fire Resistance Multi Pair Cables, Non Armored, Individual & Overall Shielded, XLPE Insulated
CU/MICA/XLPE/IS/OS/LSHF

Product Code	No of Pairs	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
02P0.75CTMXAIS00L	2	0.75	0.44	13.08	148
04P0.75CTMXAIS00L	4	0.75	0.44	15.52	243
06P0.75CTMXAIS00L	6	0.75	0.44	18.86	346
10P0.75CTMXAIS00L	10	0.75	0.44	24.43	543
12P0.75CTMXAIS00L	12	0.75	0.44	25.28	624
20P0.75CTMXAIS00L	20	0.75	0.44	31.96	998
02P001CTMXAIS00L	2	1	0.44	14.08	164
04P001CTMXAIS00L	4	1	0.44	16.72	272
06P001CTMXAIS00L	6	1	0.44	20.35	388
10P001CTMXAIS00L	10	1	0.44	26.43	612
12P001CTMXAIS00L	12	1	0.44	27.55	717
20P001CTMXAIS00L	20	1	0.44	34.61	1129
02P01.5CTMXAIS00L	2	1.5	0.44	15.1	198
04P01.5CTMXAIS00L	4	1.5	0.44	17.71	323
06P01.5CTMXAIS00L	6	1.5	0.44	21.58	464
10P01.5CTMXAIS00L	10	1.5	0.44	28.26	748
12P01.5CTMXAIS00L	12	1.5	0.44	29.45	878
20P01.5CTMXAIS00L	20	1.5	0.44	37.19	1405
02P02.5CTMXAIS00L	2	2.5	0.53	17.4	262
04P02.5CTMXAIS00L	4	2.5	0.53	20.45	433
06P02.5CTMXAIS00L	6	2.5	0.53	25.13	635
10P02.5CTMXAIS00L	10	2.5	0.53	32.86	1023
12P02.5CTMXAIS00L	12	2.5	0.53	34.02	1184
20P02.5CTMXAIS00L	20	2.5	0.53	43.19	1920

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Non Armoured

Fire Resistance Multi Triple Cables, Individual & Overall Shielded, Non-Armored, XLPE Insulated
CU/MICA/XLPE/IS/OS/LSHF

Product Code	No of Triples	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
02T0.75CTMXAIS00L	2	0.75	0.44	14.75	189
04T0.75CTMXAIS00L	4	0.75	0.44	17.29	307
06T0.75CTMXAIS00L	6	0.75	0.44	21.06	440
10T0.75CTMXAIS00L	10	0.75	0.44	27.57	710
12T0.75CTMXAIS00L	12	0.75	0.44	28.55	819
15T0.75CTMXAIS00L	15	0.75	0.44	32	1011
02T001CTMXAIS00L	2	1	0.44	15.88	215
04T001CTMXAIS00L	4	1	0.44	18.65	353
06T001CTMXAIS00L	6	1	0.44	22.75	508
10T001CTMXAIS00L	10	1	0.44	29.83	822
12T001CTMXAIS00L	12	1	0.44	31.09	965
15T001CTMXAIS00L	15	1	0.44	34.64	1174
02T01.5CTMXAIS00L	2	1.5	0.44	16.82	251
04T01.5CTMXAIS00L	4	1.5	0.44	19.98	429
06T01.5CTMXAIS00L	6	1.5	0.44	24.36	618
10T01.5CTMXAIS00L	10	1.5	0.44	31.91	1000
12T01.5CTMXAIS00L	12	1.5	0.44	33.25	1175
15T01.5CTMXAIS00L	15	1.5	0.44	37.25	1450
02T02.5CTMXAIS00L	2	2.5	0.53	19.41	344
04T02.5CTMXAIS00L	4	2.5	0.53	23.06	596
06T02.5CTMXAIS00L	6	2.5	0.53	28.34	877
10T02.5CTMXAIS00L	10	2.5	0.53	37.08	1417
12T02.5CTMXAIS00L	12	2.5	0.53	38.41	1648
15T02.5CTMXAIS00L	15	2.5	0.53	43.25	2057

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Armoured

Fire Resistant
Multi Pair/Triple & Multi Core Cables,
Armored
XLPE Insulated & Overall Shielding

Applications:

These cables are used as signal carrier for connecting electrical instrument circuits mainly in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Fire Resistance cable with glass Mica tape 950°C in accordance with IEC 60331 & BS 6387 category C, W and Z

Construction:

1. CONDUCTOR
Stranded Copper class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)
Alternative: Low Smoke Halogen Free (LSHF)

4. SHIELDING
Overall Shielded

5. ARMOR
Galvanized Round Steel Wire (GSWA)

6. SHEATH
Low Smoke Halogen Free [LSHF]

Rated Voltage:

500 V according to BS EN 50288-7

Fire Instrumentation Cables Armoured

Fire Resistance Multi Pair Cables, Armored, Overall Shielded, XLPE Insulated CU/MICA/XLPE /OS/SWA/LSHF

Product Code	No of Pairs	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
01P0.75CTMXAOSLWL	1	0.75	0.44	12.51	268
02P0.75CTMXAOSLWL	2	0.75	0.44	16.57	411
04P0.75CTMXAOSLWL	4	0.75	0.44	18.52	519
06P0.75CTMXAOSLWL	6	0.75	0.44	21.66	671
10P0.75CTMXAOSLWL	10	0.75	0.44	27.45	1078
15P0.75CTMXAOSLWL	15	0.75	0.44	31.11	1363
20P0.75CTMXAOSLWL	20	0.75	0.44	34.29	1614
01P001CTMXAOSLWL	1	1	0.44	13.07	289
02P001CTMXAOSLWL	2	1	0.44	17.49	449
04P001CTMXAOSLWL	4	1	0.44	19.62	570
06P001CTMXAOSLWL	6	1	0.44	23.04	742
10P001CTMXAOSLWL	10	1	0.44	29.29	1197
15P001CTMXAOSLWL	15	1	0.44	33.27	1516
20P001CTMXAOSLWL	20	1	0.44	36.73	1820
01P01.5CTMXAOSLWL	1	1.5	0.44	13.53	309
02P01.5CTMXAOSLWL	2	1.5	0.44	18.24	488
04P01.5CTMXAOSLWL	4	1.5	0.44	20.94	659
06P01.5CTMXAOSLWL	6	1.5	0.44	24.37	847
10P01.5CTMXAOSLWL	10	1.5	0.44	31.2	1385
15P01.5CTMXAOSLWL	15	1.5	0.44	35.44	1763
20P01.5CTMXAOSLWL	20	1.5	0.44	39.14	2124
01P02.5CTMXAOSLWL	1	2.5	0.53	14.91	371
02P02.5CTMXAOSLWL	2	2.5	0.53	20.58	608
04P02.5CTMXAOSLWL	4	2.5	0.53	23.47	820
06P02.5CTMXAOSLWL	6	2.5	0.53	28.57	1246
10P02.5CTMXAOSLWL	10	2.5	0.53	35.67	1790
15P02.5CTMXAOSLWL	15	2.5	0.53	41.28	2537
20P02.5CTMXAOSLWL	20	2.5	0.53	45.8	3094

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Armoured

Fire Resistance Multi Triple Cables, Armored, Overall Shielded, XLPE Insulated CU/MICA/XLPE /OS/SWA/LSHF

Product Code	No of Triples	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
01T0.75CTMXAOSLWL	1	0.75	0.44	12.97	296
02T0.75CTMXAOSLWL	2	0.75	0.44	17.88	474
04T0.75CTMXAOSLWL	4	0.75	0.44	20.51	635
06T0.75CTMXAOSLWL	6	0.75	0.44	23.66	807
10T0.75CTMXAOSLWL	10	0.75	0.44	30.47	1334
12T0.75CTMXAOSLWL	12	0.75	0.44	31.34	1446
15T0.75CTMXAOSLWL	15	0.75	0.44	34.44	1693
01T001CTMXAOSLWL	1	1	0.44	13.57	321
02T001CTMXAOSLWL	2	1	0.44	18.92	519
04T001CTMXAOSLWL	4	1	0.44	21.76	705
06T001CTMXAOSLWL	6	1	0.44	25.42	914
10T001CTMXAOSLWL	10	1	0.44	32.55	1496
12T001CTMXAOSLWL	12	1	0.44	33.5	1626
15T001CTMXAOSLWL	15	1	0.44	36.88	1903
01T01.5CTMXAOSLWL	1	1.5	0.44	14.07	346
02T01.5CTMXAOSLWL	2	1.5	0.44	20.18	592
04T01.5CTMXAOSLWL	4	1.5	0.44	22.81	793
06T01.5CTMXAOSLWL	6	1.5	0.44	27.62	1192
10T01.5CTMXAOSLWL	10	1.5	0.44	34.48	1724
12T01.5CTMXAOSLWL	12	1.5	0.44	35.7	1903
15T01.5CTMXAOSLWL	15	1.5	0.44	39.32	2242
01T02.5CTMXAOSLWL	1	2.5	0.53	15.54	420
02T02.5CTMXAOSLWL	2	2.5	0.53	22.38	720
04T02.5CTMXAOSLWL	4	2.5	0.53	26.56	1159
06T02.5CTMXAOSLWL	6	2.5	0.53	31.52	1549
10T02.5CTMXAOSLWL	10	2.5	0.53	40.37	2505
12T02.5CTMXAOSLWL	12	2.5	0.53	41.57	2748
15T02.5CTMXAOSLWL	15	2.5	0.53	45.99	3256

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Armoured

Fire Resistance Multi Core Cables, Armored, Overall Shielded, XLPE Insulated CU/MICA/XLPE /OS/SWA/LSHF

Product Code	Number of Cores	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
02C0.75CTMXAOSLWL	2	0.75	0.44	12.51	267
03C0.75CTMXAOSLWL	3	0.75	0.44	12.97	296
04C0.75CTMXAOSLWL	4	0.75	0.44	13.71	327
05C0.75CTMXAOSLWL	5	0.75	0.44	14.71	366
07C0.75CTMXAOSLWL	7	0.75	0.44	15.83	428
12C0.75CTMXAOSLWL	12	0.75	0.44	19.35	592
19C0.75CTMXAOSLWL	19	0.75	0.44	22.15	774
24C0.75CTMXAOSLWL	24	0.75	0.44	25.21	939
02C001CTMXAOSLWL	2	1	0.44	13.07	289
03C001CTMXAOSLWL	3	1	0.44	13.57	321
04C001CTMXAOSLWL	4	1	0.44	14.39	356
05C001CTMXAOSLWL	5	1	0.44	15.47	404
07C001CTMXAOSLWL	7	1	0.44	16.87	479
12C001CTMXAOSLWL	12	1	0.44	20.71	669
19C001CTMXAOSLWL	19	1	0.44	23.55	869
24C001CTMXAOSLWL	24	1	0.44	27.09	1065
02C01.5CTMXAOSLWL	2	1.5	0.44	13.53	309
03C01.5CTMXAOSLWL	3	1.5	0.44	14.27	353
04C01.5CTMXAOSLWL	4	1.5	0.44	15.15	399
05C01.5CTMXAOSLWL	5	1.5	0.44	16.29	452
07C01.5CTMXAOSLWL	7	1.5	0.44	17.56	532
12C01.5CTMXAOSLWL	12	1.5	0.44	21.87	764
19C01.5CTMXAOSLWL	19	1.5	0.44	25.1	1020
24C01.5CTMXAOSLWL	24	1.5	0.44	29.37	1386
02C02.5CTMXAOSLWL	2	2.5	0.53	14.91	371
03C02.5CTMXAOSLWL	3	2.5	0.53	15.74	431
04C02.5CTMXAOSLWL	4	2.5	0.53	16.77	490
05C02.5CTMXAOSLWL	5	2.5	0.53	17.88	549
07C02.5CTMXAOSLWL	7	2.5	0.53	19.73	675
12C02.5CTMXAOSLWL	12	2.5	0.53	24.72	985
19C02.5CTMXAOSLWL	19	2.5	0.53	29.15	1479
24C02.5CTMXAOSLWL	24	2.5	0.53	33.31	1797

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Armoured

Fire Resistant
Multi Pair/Triple Cables,
Armored
XLPE Insulated, Individual & Overall Shielding

Applications:

These cables are used as signal carrier for connecting electrical instrument circuits mainly in hazardous areas where safety and circuit integrity are highly required during fire conditions.

Fire Resistance cable with glass Mica tape 950°C in accordance with IEC 60331 & BS 6387 category C, W and Z

Construction:

1. CONDUCTOR
Stranded Copper class 2

2. FIRE RESISTANCE MATERIAL
MICA Glass Tape

3. INSULATION
Cross Linked Polyethylene (XLPE)
Alternative:Low Smoke Halogen Free (LSHF)

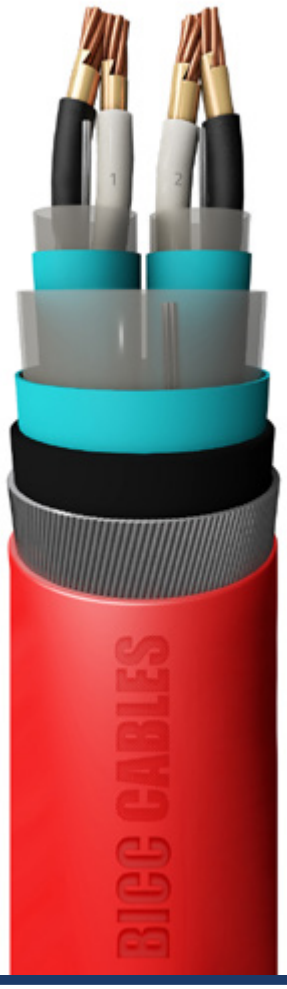
4. SHIELDING
Individual & Overall Shielded

5. ARMOR
Galvanized Round Steel Wire (GSWA)

6. SHEATH
Low Smoke Halogen Free [LSHF]

Rated Voltage:

500 V according to BS EN 50288-7



Fire Instrumentation Cables Armoured

Fire Resistance Multi Pair Cables, Armored , Individual & Overall Shielded, XLPE Insulated
CU/MICA/XLPE /IS/OS/SWA/LSHF

Product Code	No of Pairs	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
02P0.75CTMXAISLWL	2	0.75	0.44	17.94	470
04P0.75CTMXAISLWL	4	0.75	0.44	20.58	631
06P0.75CTMXAISLWL	6	0.75	0.44	23.92	809
10P0.75CTMXAISLWL	10	0.75	0.44	30.59	1311
12P0.75CTMXAISLWL	12	0.75	0.44	31.44	1418
20P0.75CTMXAISLWL	20	0.75	0.44	38.32	2010
02P001CTMXAISLWL	2	1	0.44	18.94	509
04P001CTMXAISLWL	4	1	0.44	21.78	684
06P001CTMXAISLWL	6	1	0.44	25.61	894
10P001CTMXAISLWL	10	1	0.44	32.59	1444
12P001CTMXAISLWL	12	1	0.44	33.71	1578
20P001CTMXAISLWL	20	1	0.44	40.97	2212
02P01.5CTMXAISLWL	2	1.5	0.44	20.16	574
04P01.5CTMXAISLWL	4	1.5	0.44	22.77	757
06P01.5CTMXAISLWL	6	1.5	0.44	27.54	1137
10P01.5CTMXAISLWL	10	1.5	0.44	34.62	1651
12P01.5CTMXAISLWL	12	1.5	0.44	35.81	1810
20P01.5CTMXAISLWL	20	1.5	0.44	44.65	2859
02P02.5CTMXAISLWL	2	2.5	0.53	22.46	689
04P02.5CTMXAISLWL	4	2.5	0.53	26.41	1078
06P02.5CTMXAISLWL	6	2.5	0.53	31.29	1428
10P02.5CTMXAISLWL	10	2.5	0.53	40.12	2290
12P02.5CTMXAISLWL	12	2.5	0.53	41.28	2492
20P02.5CTMXAISLWL	20	2.5	0.53	50.85	3613

The above data is approximate and subject to manufacturing tolerance.

Fire Instrumentation Cables Armoured

Fire Resistance Multi Triple Cables, Armored, Individual & Overall Shielded, XLPE Insulated
CU/MICA/XLPE /IS/OS/SWA/LSHF

Product Code	No of Triples	Conductor Cross Section Area	Insulation Thickness	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	(mm)	Kg/Km
02T0.75CTMXAISLWL	2	0.75	0.44	19.81	558
04T0.75CTMXAISLWL	4	0.75	0.44	22.35	733
06T0.75CTMXAISLWL	6	0.75	0.44	27.02	1100
10T0.75CTMXAISLWL	10	0.75	0.44	33.73	1571
12T0.75CTMXAISLWL	12	0.75	0.44	34.91	1724
15T0.75CTMXAISLWL	15	0.75	0.44	38.36	2023
02T001CTMXAISLWL	2	1	0.44	20.94	612
04T001CTMXAISLWL	4	1	0.44	23.71	810
06T001CTMXAISLWL	6	1	0.44	28.71	1220
10T001CTMXAISLWL	10	1	0.44	36.19	1767
12T001CTMXAISLWL	12	1	0.44	37.45	1950
15T001CTMXAISLWL	15	1	0.44	41	2267
02T01.5CTMXAISLWL	2	1.5	0.44	21.88	664
04T01.5CTMXAISLWL	4	1.5	0.44	25.24	927
06T01.5CTMXAISLWL	6	1.5	0.44	30.52	1386
10T01.5CTMXAISLWL	10	1.5	0.44	38.27	2011
12T01.5CTMXAISLWL	12	1.5	0.44	39.81	2245
15T01.5CTMXAISLWL	15	1.5	0.44	44.71	2904
02T02.5CTMXAISLWL	2	2.5	0.53	25.37	962
04T02.5CTMXAISLWL	4	2.5	0.53	29.22	1324
06T02.5CTMXAISLWL	6	2.5	0.53	34.7	1779
10T02.5CTMXAISLWL	10	2.5	0.53	44.54	2869
12T02.5CTMXAISLWL	12	2.5	0.53	45.87	3145
15T02.5CTMXAISLWL	15	2.5	0.53	50.91	3750

The above data is approximate and subject to manufacturing tolerance.

Fire Alarm Cables

Fire Alarm Cables

Fire Alarm Cable
Un-Screened

Applications:

These cables are used for communication and signaling in fire alarm systems.

Solid Fire Alarm Cables 500 V Unscreened Multi-Core cables to BS EN 50288-7

Construction:

1. CONDUCTOR

Solid Copper class 1
* It can be offered stranded

2. INSULATION

PVC (Polyvinyl chloride) 105°C

3. SHEATH

PVC (Polyvinyl chloride) 105°C

Rated Voltage:

500 V according to BS EN 50288-7

Fire Alarm Cable Un-Screened
CU/PVC/PVC 105°C 500V

Cable Code	No. of Cores	Size	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	Kg/Km
02C001CS0DA000P	2	1	6.13	48
03C001CS0DA000P	3	1	6.47	62
04C001CS0DA000P	4	1	7.02	76
02C01.5CS0DA000P	2	1.5	6.61	59
03C01.5CS0DA000P	3	1.5	6.99	78
04C01.5CS0DA000P	4	1.5	7.6	98
02C02.5CS0DA000P	2	2.5	7.81	87
03C02.5CS0DA000P	3	2.5	8.48	121
04C02.5CS0DA000P	4	2.5	9.25	153

The above data is approximate and subject to manufacturing tolerance.

Fire Alarm Cables

Fire Alarm Cable
Screened

Applications:

These cables are used for communication and signaling in fire alarm systems.

Solid Fire Alarm Cables 500 V screened multi-core cables to BS EN 50288-7

Construction:

1. CONDUCTOR

Solid Copper class 1
* It can be offered stranded

2. INSULATION

PVC (Polyvinyl chloride) 105°C

3. SCREEN

Aluminum Polyester Laminated tape with tinned copper drain wire

4. SHEATH

PVC (Polyvinyl chloride) 105°C

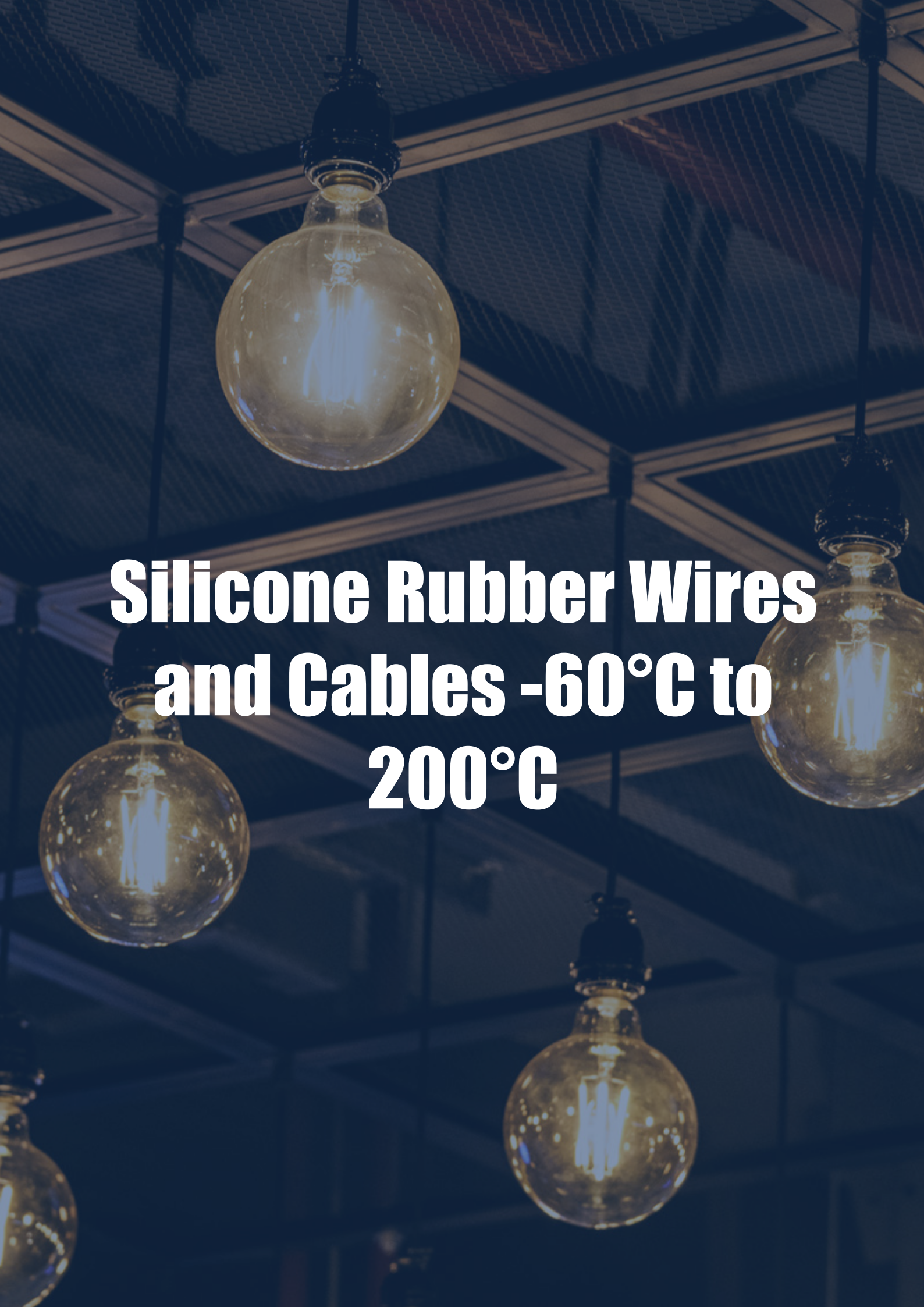
Rated Voltage:

500 V according to BS EN 50288-7

Fire Alarm Cable Screened
CU/PVC/OS/PVC 105°C 500V

Cable Code	No. of Cores	Size	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	Kg/Km
02C001CS0DAOS00P	2	1	6.35	58
03C001CS0DAOS00P	3	1	6.69	72
04C001CS0DAOS00P	4	1	7.24	87
02C01.5CS0DAOS00P	2	1.5	6.83	70
03C01.5CS0DAOS00P	3	1.5	7.21	89
04C01.5CS0DAOS00P	4	1.5	7.82	109
02C02.5CS0DAOS00P	2	2.5	8.03	98
03C02.5CS0DAOS00P	3	2.5	8.7	133
04C02.5CS0DAOS00P	4	2.5	9.47	165

The above data is approximate and subject to manufacturing tolerance.



Silicone Rubber Wires and Cables -60°C to 200°C

Silicone Rubber Wires and Cables -60°C to 200°C

Introduction

Silicone rubber is a widely used insulating material for electrical wires and cables due to its high flexibility, durability, and ability to withstand a range of temperatures and harsh environmental conditions. Here's an in-depth look at the properties, applications, types, standards, and benefits of silicone rubber in the electrical industry.

1. Properties of Silicone Rubber

- **Temperature Resistance:** Silicone rubber has an exceptional temperature range, typically from -60°C to 180°C, and can go even higher for short periods. This makes it suitable for environments with extreme temperature variations.
- **Electrical Insulation:** It has excellent dielectric properties, meaning it can effectively insulate against electrical currents and reduce the risk of short circuits.
- **Flame Retardancy:** Many silicone rubbers are inherently flame-retardant and self-extinguishing, reducing the spread of fire in case of overheating or electrical faults.
- **Moisture Resistance:** Silicone rubber resists water, humidity, and steam, which is essential in maintaining performance in moist or underwater applications.
- **Chemical Resistance:** It is resistant to many oils, chemicals, and solvents, increasing durability in harsh industrial environments.
- **Flexibility and Elasticity:** Silicone rubber remains flexible at low temperatures and resists cracking, making it ideal for dynamic or flexible applications.

Silicone Rubber Wires and Cables -60°C to 200°C

High Temperature
SIAF / H05S-K / N2GFAF
Flexible Silicone Wire BS EN 50525-2-41

Applications:

Designed for use in environments where sustained heat resistance is required, SIAF wires have heat resistant properties up to 180°C and can also be employed at temperatures as low as -60°C. These cables are low smoke zero halogen and are suitable for power plants, a wide range of industrial applications in processing, packaging, refrigeration, foundries, air craft construction and ship building.

Construction:

1. CONDUCTOR

Class 5 Flexible Bare or Tinned Copper conductor according to EN 60228

2. INSULATION

Silicone rubber EI 2 According BS 50363-1

Rated Voltage:

300 / 500 V according to BS EN 50525-2-41

SIAF / H05S-K / N2GFAF

Cable Code	No. of Cores	Size	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	Kg/Km
01C00.5TF0RA0000	1	0.50 mm2	2.4	10.7
01C0.75TF0RA0000	1	0.75 mm2	2.6	13.7
01C001TF0RA0000	1	1.00 mm2	2.9	16.6
01C01.5TF0RA0000	1	1.50 mm2	3.3	23.0
01C02.5TF0RA0000	1	2.50 mm2	3.9	34.5

The above data is approximate and subject to manufacturing tolerance.

Silicone Rubber Wires and Cables -60°C to 200°C

High Temperature
H03S-K / SIA
Flexible Silicone Wire BS EN 50525-2-41

Applications:

Single core non-sheathed electric cables with silicone insulation. These cables are suitable for electric connection for fixed installations in places with high temperatures, such as ovens or electric cookers.

Construction:

1. CONDUCTOR

Class 5 Flexible Bare or Tinned Copper conductor according to EN 60228

2. INSULATION

Silicone rubber EI 2 According BS 50363-1

Rated Voltage:

300 / 300 V according to BS EN 50525-2-41

H03S-K / SIA Flexible TCU/SIR 300/300 V

Cable Code	No. of Cores	Size	Overall, Cable Diameter	Approx. Cable Weight
		(mm^2)	(mm)	Kg/Km
01C00.5TF0RG0000	1	0.50 mm2	2	8.1
01C0.75TF0RG0000	1	0.75 mm2	2.16	10.6
01C001TF0RG0000	1	1.00 mm2	2.31	13.2
01C01.5TF0RG0000	1	1.50 mm2	2.75	19.2
01C02.5TF0RG0000	1	2.50 mm2	3.35	30.5

The above data is approximate and subject to manufacturing tolerance.

Silicone Rubber Wires and Cables -60°C to 200°C

Standard Fire Resistant Cable BS7629-1

Applications:

Standard fire-resistant cables for use primarily in fire detection, fire alarm, voice alarm, and emergency lighting circuits. These cables are designed to continue to operate for a period of time in a fire situation. 'Standard' fire resistance is recommended for general use.

Construction:

1. CONDUCTOR

Stranded Copper class 2

2. INSULATION

High-performance fire-resistant silicone rubber EI 2 According to BS 50363-1

3. SHIELDING

Al/PET (Aluminum/Polyester Tape)

4. SHEATH

Low Smoke Halogen Free (LSHF)

Rated Voltage:

300 / 500 V according to BS 7629-1

Multi Core silicone rubber Cables
Overall Shielded – 300/500 V – CU/SIR/OS/LSHF

Cable Code	Size	Insulation Thickness	CPC Nominal CSA	Sheathing Thickness	Approx. Overall Diameter	Approx. Weight
	(mm^2)	(mm)	(mm^2)	(mm)	(mm)	Kg/Km
02C001CT0RAOS00L	2 x 1	0.6	1	0.9	7.44	80
02C01.5CT0RAOS00L	2 x 1.5	0.7	1.5	0.9	8.37	103
02C02.5CT0RAOS00L	2 x 2.5	0.8	2.5	1	9.85	147
02C004CT0RAOS00L	2 x 4	0.8	4	1.1	11.34	207
03C01.5CT0RAOS00L	3 x 1.5	0.7	1.5	0.9	9.12	127
03C02.5CT0RAOS00L	3 x 2.5	0.8	2.5	1	10.75	183
03C004CT0RAOS00L	3 x 4	0.8	4	1.1	12.4	260
04C01.5CT0RAOS00L	4 x 1.5	0.7	1.5	1	10.13	156
04C02.5CT0RAOS00L	4 x 2.5	0.8	2.5	1.1	11.93	225
04C004CT0RAOS00L	4 x 4	0.8	4	1.2	13.75	321

The above data is approximate and subject to manufacturing tolerance.

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BFRC-FEB25

BICC CABLES

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