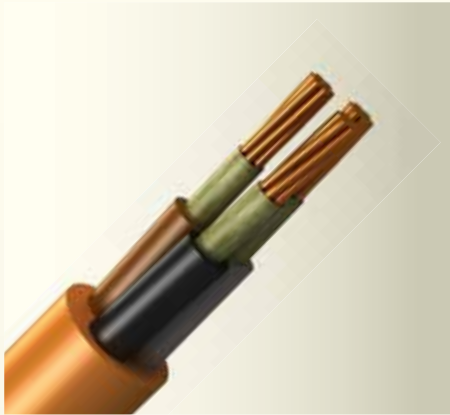


# LSZH Fire Resistant Cables

300/500V Single-Core ~ 4-Core

Mica Tape Fire Barrier, XLPE Insulated, LSZH Sheathed, Fire Resistant Cable

CU/MICA/XLPE/LSZH



Application :	This cable is designed for areas where the integrity of the electrical circuit is critical in maintaining power supply. Applications can be found in emergency lightings, control and power circuits, power stations, fire alarm systems, underground tunnels, communications systems, sewage treatment plants, lifts, escalators, and high-rise buildings.
Voltage rating :	300/500V
Construction :	Plain annealed copper, mica tape fire barrier, XLPE insulated, LSZH compound sheathed cable
Insulation colour :	Single-Core: (Natural) 2-Core: (Brown & Blue) 3-Core: (Brown, Black & Grey) 4-Core: (Brown, Black, Grey & Blue) or as per order
Sheath colour :	Orange or as per order
Specification :	Refer IEC60502-1, BS6387, SS299-1, IEC60331, IEC60332-1, IEC60332-3, IEC60754, IEC61034

No. of Core	Conductor		Insulation Thickness	Sheath Thickness	Without Earth Conductor		With Earth Conductor	
	Nominal Area	No./Dia. of Strand			Approx. Overall Dia.	Approx. Weight	Approx. Overall Dia.	Approx. Weight
	mm <sup>2</sup>	No./mm	mm	mm	mm	kg/km	mm	kg/km
Single-core	1.5	7/0.53	0.5	0.5	4.4	29	-	-
2-core	1.5	7/0.53	0.5	0.5	7.7	70	8.2	80
3-core	1.5	7/0.53	0.5	0.5	8.7	90	10.5	100
4-core	1.5	7/0.53	0.5	0.5	10.3	105	12.2	120
Single-core	2.5	7/0.67	0.5	0.5	4.9	40	-	-
2-core	2.5	7/0.67	0.5	0.5	8.8	100	9.6	120
3-core	2.5	7/0.67	0.5	0.5	9.5	125	10.7	150
4-core	2.5	7/0.67	0.5	0.5	11.0	155	13.0	190
Single-core	4	7/0.85	0.5	0.5	5.5	55	-	-
2-core	4	7/0.85	0.5	0.5	9.8	140	10.5	170
3-core	4	7/0.85	0.5	0.5	11.5	180	12.5	220
4-core	4	7/0.85	0.5	0.5	12.5	255	13.5	270

For current rating and voltage drop please refer to Tables 2 & 3 (Page 50)

# LSZH Fire Resistant Cables

450/750V & 600V/1000V Single-Core  
 Mica Tape Fire Barrier, LSZH Insulated, Non-Sheathed Fire Resistant Cable  
 CU/MICA/LSZH



Application :	This cable is used in fire extinguishing systems, sprinklers, control panels, and exit lights in high-rise buildings, hotels, hospitals, sub-ways, and public facilities.
Voltage rating :	450/750V & 600/1000V
Construction :	Plan annealed copper, mica tape fire barrier, LSZH compound insulated cable
Insulation colour:	Orange or as per order
Specification :	Refer BS7211, BS6387, SS299-1, IEC60331, IEC60332-1, IEC60332-3, IEC60754, IEC61034

Conductor		450/750V			600/1000V		
Nominal Area	No./Dia. Of Strand	Thickness of Insulation	Approx. Overall Dia.	Approx. Weight	Thickness of Insulation	Approx. Overall Dia.	Approx. Weight
mm <sup>2</sup>	No./mm	mm	mm	kg/km	mm	mm	kg/km
1.5	7/0.53	0.7	3.5	25	0.8	3.8	30
2.5	7/0.67	0.8	4.1	35	0.8	4.2	40
4	7/0.85	0.8	4.6	52	1.0	5.3	70
6	7/1.04	0.8	5.2	72	1.0	6.0	96
10	7/1.35	1.0	6.5	120	1.0	6.6	130
16	7/1.70	1.0	7.6	180	1.0	7.7	200
25	7/2.14	1.2	9.0	275	1.2	9.1	290
35	19/1.53	1.2	10.2	370	1.2	10.3	390
50	19/1.78	1.4	11.8	500	1.4	11.9	520
70	19/2.14	1.4	13.4	700	1.4	13.5	730
95	19/2.52	1.6	15.8	980	1.6	15.9	990
120	37/2.03	1.6	17.1	1200	1.6	17.2	1250
150	37/2.25	1.8	18.8	1500	1.8	18.9	1520
185	37/2.52	2.0	21.0	1900	2.0	21.2	1900
240	61/2.25	2.2	25.7	2500	2.2	25.8	2550
300	61/2.52	2.4	28.6	3140	2.4	28.8	3150
400	61/2.85	2.6	32.0	4000	2.6	32.2	4000
500	61/3.20	2.8	35.5	5000	2.8	35.7	5000
630	127/2.52	2.8	39.5	6300	2.8	39.7	6360

For current rating and voltage drop please refer to Tables 4 & 5 (Page 51)

# LSZH Fire Resistant Cables

600/1000V Single-Core  
Mica Tape Fire Barrier, XLPE Insulated, Unarmoured & Armoured,  
LSZH Sheathed Fire Resistant Cable

CU/MICA/XLPE/LSZH or CU/MICA/XLPE/LSZH/AWA/LSZH



Application :	This cable is designed for areas where the integrity of the electrical circuit is critical in maintaining power supply. Applications can be found in emergency lightings, control and power circuits, power stations, fire alarm systems, underground tunnels, communications systems, sewage treatment plants, lifts, escalators, and high-rise buildings.
Voltage rating :	600/1000V
Construction :	Plain annealed copper, mica tape fire barrier, XLPE or XLEVA compound insulated, unarmoured or aluminum wires armoured, LSZH compound sheathed cable
Insulation colour :	Natural
Sheath colour :	Orange or as per order
Specification :	BS6724, BS6387, SS299-1, IEC60502-1, IEC60331, IEC60332-1, IEC60332-3, IEC60754, IEC61034

Conductor			Insulation	Unarmoured Cable		Armoured Cable	
Nominal Area	No./Dia. Of Strand	Dia. Of Conductor	Thickness	Approx. Overall Dia.	Approx. Weight	Approx. Overall Dia.	Approx. Weight
mm <sup>2</sup>	No./mm	mm	mm	mm	kg/km	mm	kg/km
1.5	7/0.53	1.59	0.7	6.5	54	-	-
2.5	7/0.67	2.01	0.7	6.8	67	-	-
4	7/0.85	2.55	0.7	7.5	86	-	-
6	7/1.04	3.12	0.7	8.1	110	-	-
10	7/1.35	4.05	0.7	9.2	155	-	-
16	7/1.70	5.10	0.7	10.2	220	-	-
25	7/2.14	6.42	0.9	11.9	325	-	-
35	19/1.53	7.65	0.9	13.2	425	-	-
50	19/1.78	8.90	1.0	14.6	600	18.5	780
70	19/2.14	10.70	1.1	16.6	820	20.5	1010
95	19/2.52	12.60	1.1	18.7	1100	23.0	1320
120	37/2.03	14.21	1.2	20.5	1350	24.5	1610
150	37/2.25	15.75	1.4	22.7	1640	27.0	2010
185	37/2.52	17.64	1.6	25.5	2040	29.5	2440
240	61/2.25	20.25	1.7	28.5	2650	34.5	3060
300	61/2.52	22.68	1.8	31.5	3260	36.9	3690
400	61/2.85	25.65	2.0	35.4	4130	41.5	4780
500	61/3.20	28.80	2.2	39.0	5200	45.5	5970
630	127/2.52	32.76	2.4	43.5	6600	50.5	7530
800	127/2.85	37.05	2.6	48.5	8300	56.8	9680
1000	127/3.20	41.60	2.8	53.5	10000	61.5	11980

**Current rating and voltage drop**

For Unarmoured Cable, please refer to Tables 4 & 5 (Page 51)  
For Armoured Cable, please refer to Tables 6 & 7 (Page 52)

# LSZH Fire Resistant Cables

600/1000V 2-Core ~ 4-Core  
Mica Tape Fire Barrier, XLPE Insulation, Unarmoured & Armoured,  
LSZH Sheathed Fire Resistant Cable  
CU/MICA/XLPE/LSZH or CU/MICA/XLPE/LSZH/SWA/LSZH



Application :	This cable is designed for areas where the integrity of the electrical circuit is critical in maintaining power supply. Applications can be found in emergency lightings, control and power circuits, power stations, fire alarm systems, underground tunnels, communications systems, sewage treatment plants, lifts, escalators, and high-rise buildings.
Voltage rating :	600/1000V
Construction :	Plain annealed copper, mica tape fire barrier, XLPE or XLEVA compound insulated, galvanized steel wires armoured, LSZH compound sheathed cable.
Insulation colour :	2-Core: (Brown & Blue) 3-Core: (Brown, Black & Grey) 4-Core: (Brown, Black, Grey & Blue) 5-Core & above: (Black [XLPE] / Natural [LSZH Compound]) or as per order
Sheath colour :	Orange or as per order
Specification :	BS7846, BS6387, SS299, IEC60331, IEC60332-1, IEC60332-3, IEC60754, IEC61034

## 2-CORE

Conductor			Insulation	Unarmoured Cable		Armoured Cable	
Nominal Area	No./Dia. Of Strand	Dia. Of Conductor	Thickness	Approx. Overall Dia.	Approx. Weight	Approx. Overall Dia.	Approx. Weight
mm <sup>2</sup>	No./mm	mm	mm	mm	kg/km	mm	kg/km
1.5	7/0.53	1.59	0.7	12.2	150	15.3	390
2.5	7/0.67	2.01	0.7	12.6	180	16.5	450
4	7/0.85	2.55	0.7	14.7	250	17.6	525
6	7/1.04	3.12	0.7	16.2	290	18.8	620
10	7/1.35	4.05	0.7	17.1	450	21.0	800
16	7/1.70	5.10	0.7	19.2	550	23.0	1100
25	7/2.14	6.42	0.9	20.0	680	27.0	1480
35	19/1.53	7.65	0.9	22.0	940	30.0	2000
50	19/1.78	8.90	1.0	24.0	1250	33.0	2450
70	19/2.14	10.70	1.1	27.0	1700	37.0	3200

**Current rating and voltage drop**  
For Unarmoured Cable, please refer to Tables 2 & 3 (Page 50)  
For Armoured Cable, please refer to Tables 8 & 9 (Page 53)

(cs) : Circular Stranded Conductor  
(s) : Circular Compacted Stranded Conductor

# LSZH Fire Resistant Cables



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600/1000V 2-Core ~ 4-Core

Mica Tape Fire Barrier, XLPE Insulation, Unarmoured & Armoured,  
LSZH Sheathed Fire Resistant Cable

CU/MICA/XLPE/LSZH or CU/MICA/XLPE/LSZH/SWA/LSZH

## 3-CORE

Conductor			Insulation	Unarmoured Cable		Armoured Cable	
Nominal Area	No./Dia. Of Strand	Dia. Of Conductor	Thickness	Approx. Overall Dia.	Approx. Weight	Approx. Overall Dia.	Approx. Weight
mm <sup>2</sup>	No./mm	mm	mm	mm	kg/km	mm	kg/km
1.5	7/0.53	1.59	0.7	12.3	170	16.5	420
2.5	7/0.67	2.01	0.7	13.8	200	17.0	500
4	7/0.85	2.55	0.7	15.2	300	18.5	600
6	7/1.04	3.12	0.7	16.8	380	19.8	785
10	7/1.35	4.05	0.7	18.0	550	22.6	1030
16	7/1.70	5.10	0.7	21.0	760	25.0	1370
25	7/2.14	6.42	0.9	22.0	960	29.0	1900
35	19/1.53	7.65	0.9	24.0	1300	32.0	2300
50	19/1.78	8.90	1.0	28.0	1700	35.0	2900
70	19/2.14	10.70	1.1	31.0	2400	40.0	4000
95	19/2.52	12.60	1.1	36.0	3250	45.0	5400
120	37/2.03	14.21	1.2	38.0	4000	49.0	6450
150	37/2.25	15.75	1.4	42.0	5000	55.0	8200
185	37/2.52	17.64	1.6	47.0	6100	60.0	9800
240	61/2.25	20.25	1.7	52.0	8000	68.0	12300
300	61/2.52	22.68	1.8	59.0	9850	74.0	14800
400	61/2.85	25.65	2.0	63.0	13000	83.0	17600

## 4-CORE

Conductor			Insulation	Unarmoured Cable		Armoured Cable	
Nominal Area	No./Dia. Of Strand	Dia. Of Conductor	Thickness	Approx. Overall Dia.	Approx. Weight	Approx. Overall Dia.	Approx. Weight
mm <sup>2</sup>	No./mm	mm	mm	mm	kg/km	mm	kg/km
1.5	7/0.53	1.59	0.7	14.3	210	16.0	475
2.5	7/0.67	2.01	0.7	15.2	270	17.8	570
4	7/0.85	2.55	0.7	17.2	380	19.8	690
6	7/1.04	3.12	0.7	19.0	440	21.0	940
10	7/1.35	4.05	0.7	20.6	670	23.3	1200
16	7/1.70	5.10	0.7	23.6	820	26.5	1400
25	7/2.14	6.42	0.9	26.0	1320	30.5	2400
35	19/1.53	7.65	0.9	29.0	1730	34.0	2800
50	19/1.78	8.90	1.0	32.0	2300	38.0	3500
70	19/2.14	10.70	1.1	38.0	3180	44.0	5300
95	19/2.52	12.60	1.1	41.9	4370	48.5	6700
120	37/2.03	14.21	1.2	44.0	5400	54.0	8500
150	37/2.25	15.75	1.4	50.8	6500	59.0	10000
185	37/2.52	17.64	1.6	55.0	8200	64.5	12200
240	61/2.25	20.25	1.7	60.5	10600	74.0	15400
300	61/2.52	22.68	1.8	68.5	13200	82.0	19500
400	61/2.85	25.65	2.0	76.0	17000	92.0	25500

### Current rating and voltage drop

For Unarmoured Cable, please refer to Tables 2 & 3 (Page 50)  
For Armoured Cable, please refer to Tables 8 & 9 (Page 53)

(cs) : Circular Stranded Conductor  
(s) : Circular Compacted Stranded Conductor