

# Fire Retardant Cable ( Cu / Mica /XLPE / LSZH ) - 950 °C

Multicores Stranded copper conductor Mica Glass tape insulated XLPE 90°C&Sheating LSOH90°C 0.6/1kV

## Application:

Fire safety is one of the top priorities in today's building infrastructure safety. A fire once spread out of control, can quickly cause extensive damage to the property and ultimately to human lives. Ideally, all measures should be in place to ensure that a fire never occurs, but in the event that a fire has been ignited, every precaution should already be in place to ensure that it is contained quickly. This is where TechLine/Amwaj Low Smoke Zero Halogen (LSZH), Flame Retardant and Fire Resistant Cables come into play.

## Applicable Standards:

TechLine/Amwaj Stranded SC –Mica Glass Tape -XLPE-LSOH are designed and tested according to the following requirements standards:

Main construction: IEC60502-1

Circuit Integrity: BS 6387 Cat C.W.Z., IEC 60331

Flame Propagation: IEC 60332/ BS EN 50265

Acid Gas Emission: IEC 60754, BS EN 50267

Smoke Emission: IEC 61034, BS EN 61034

## Specification:

### Conductor

Stranded annealed copper conductor class 2 according to BS EN 60228 and IEC 60228.

### Fire Resistant Barrier

Mica glass tape applied over the conductor.

### Insulation

Cross linked polyethylene (XLPE) insulation rated 90 °C at normal operation according to BS7655-1.3 requirements for Type GP8 and comply with IEC 60502-1.

### Assembly:

The insulated cores are uniformly twisted together to form the cable core.

### Core colors:

**Standard core color will be as follow:**

**Two cores: Red and Black**

**Three cores: Red, Yellow and Blue**

**Four cores: Red, Yellow, Blue and Black**

### Sheath:

Solid extruded low smoke zero halogen (LSOH) with temperature rating 90 °C at normal operation applied over the laid up assembled cores according to IEC 60502-

### Flame retardancy:

Stranded cables 0.6/1 kV have been tested and approved with the flame performance standards IEC 60332/ BS EN 50265.

### Packing:

Available in standard length of 1000 meters on wooden drum (Other lengths are available upon request).

## Marking

TechLine/Amwaj 2\*2.5 mm<sup>2</sup> CU/MICA/XLPE/LSOH 0.6/1 kV IEC60502-1/ IEC 60332/IEC 60754/ IEC 61034



# Fire Resistance Cable

## Technical Data:

Number of cores	size	No. x diameter	(ohm/km at 20 °c)	XLPE Insulation Thickness	PVC Jacket Thickness	Nominal Outer Diameter	Approx. Net Weight	Current Rating			Ordering Information
								Laid Direct in ground (A)	Laid in Duct (A)	Laid in Free Air (A)	Item Code
No.	(MM2)	No. xMM	(ohm/km at 20C °c)	(MM)	(MM)	(MM)	(Kg/km)				
2	1.5	7x0.52	12.1	0.7	1.8	11.6	185	35	30	29	Fire Proof 2c1.5
3					1.8	12.2	200	31	28	26	Fire Proof 3c1.5
4					1.8	13.0	240	31	28	26	Fire Proof 4c1.5
2	2.5	7x0.67	7.41	0.7	1.8	12.5	224	43	38	38	Fire Proof 2c2.5
3					1.8	13.1	250	41	35	37	Fire Proof 3c2.5
4					1.8	14.2	320	41	35	37	Fire Proof 4c2.5
2	4	7x0.85	4.61	0.7	1.8	13.5	280	58	48	52	Fire Proof 2c4
3					1.8	14.2	330	52	43	47	Fire Proof 3c4
4					1.8	15.3	390	52	43	47	Fire Proof 4c4
2	6	7x1.04	3.08	0.7	1.8	14.6	350	73	62	68	Fire Proof 2c6
3					1.8	15.5	415	66	54	57	Fire Proof 3c6
4					1.8	16.9	500	66	54	57	Fire Proof 4c6