

## Twin with Earth LSZH Cable



### APPLICATION

Domestic wiring cable. Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where the risk of mechanical damage would not be an issue. Suitable for laying in conduit or trunking where mechanical protection is required.

### CHARACTERISTICS

#### Voltage Rating U<sub>o</sub>/U

300/500V

#### Temperature Rating

-5°C to +70°C

#### Minimum Bending Radius

Fixed: 6 x overall diameter

### CONSTRUCTION

#### Conductor

RE: 1mm<sup>2</sup> to 1.5mm<sup>2</sup>: Class 1 solid copper

RM: 2.5mm<sup>2</sup> to 16mm<sup>2</sup>: Class 2 stranded copper

#### Circuit Protection Conductor (Earth)

1mm<sup>2</sup> to 1.5 mm<sup>2</sup>: Class 1 solid copper

2.5mm<sup>2</sup> to 16 mm<sup>2</sup>: Class 2 stranded copper

#### Insulation

LSZH (Low Smoke Zero Halogen)

#### Sheath

LSZH (Low Smoke Zero Halogen)

### CABLE THIRD-PARTY ACCREDITATION

Cables are tested and accredited by Kenya Bureau and Standards (KEBS)



### STANDARDS

KS-EAS 114, KS-IEC 60228

Flame Retardant according to IEC/EN 60332-1-2

### CORE IDENTIFICATION

2 core:  Red  Black

3 core:  Red  Black & bare Earth conductor

### Sheath Colour

● Grey



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## DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CLASS OF CONDUCTOR	NOMINAL THICKNESS OF INSULATION mm	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup> (Earth )	NOMINAL THICKNESS OF SHEATH mm	MEAN OVERALL DIAMETER		APPROX. NETT WEIGHT kg/km
						LOWER LIMIT	UPPER LIMIT	
2+E	1	1	0.6	1.0	0.9	4.0 x 7.2	4.7 x 8.6	68
2 +E	1.5	1	0.7	1.0	0.9	4.4 x 8.2	5.4 x 9.6	85
2 +E	2.5	1	0.8	1.5	1	5.2 x 9.8	6.2 x 11.5	120
2 +E	4	2	0.8	1.5	1	5.6 x 10.5	7.2 x 13.0	175
2 +E	6	2	0.8	2.5	1.1	6.4 x 12.5	8.0 x 15.0	240
2 +E	10	2	1.0	4*	1.2	7.8 x 15.5	9.6 x 19.0	390
2 +E	16	2	1.0	6*	1.3	9.0 x 18.0	11.0 x 22.5	560

\*Class 2 conductors only

## CONDUCTORS

### Class 1 Solid Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Plain Wires	
1	18.1	
1.5	12.1	
2.5 (s/s )	7.41	

The above table is in accordance KS- IEC 60228

### Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MINIMUM NO. OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
		Annealed Copper Conductor	
		Plain Wires	
2.5	7	7.41	
4	7	4.61	
6	7	3.08	
10	7	1.83	
16	7	1.15	

The above table is in accordance KS –IEC 60228



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**ELECTRICAL CHARACTERISTICS**

**Current Carrying Capacity and Voltage Drop**

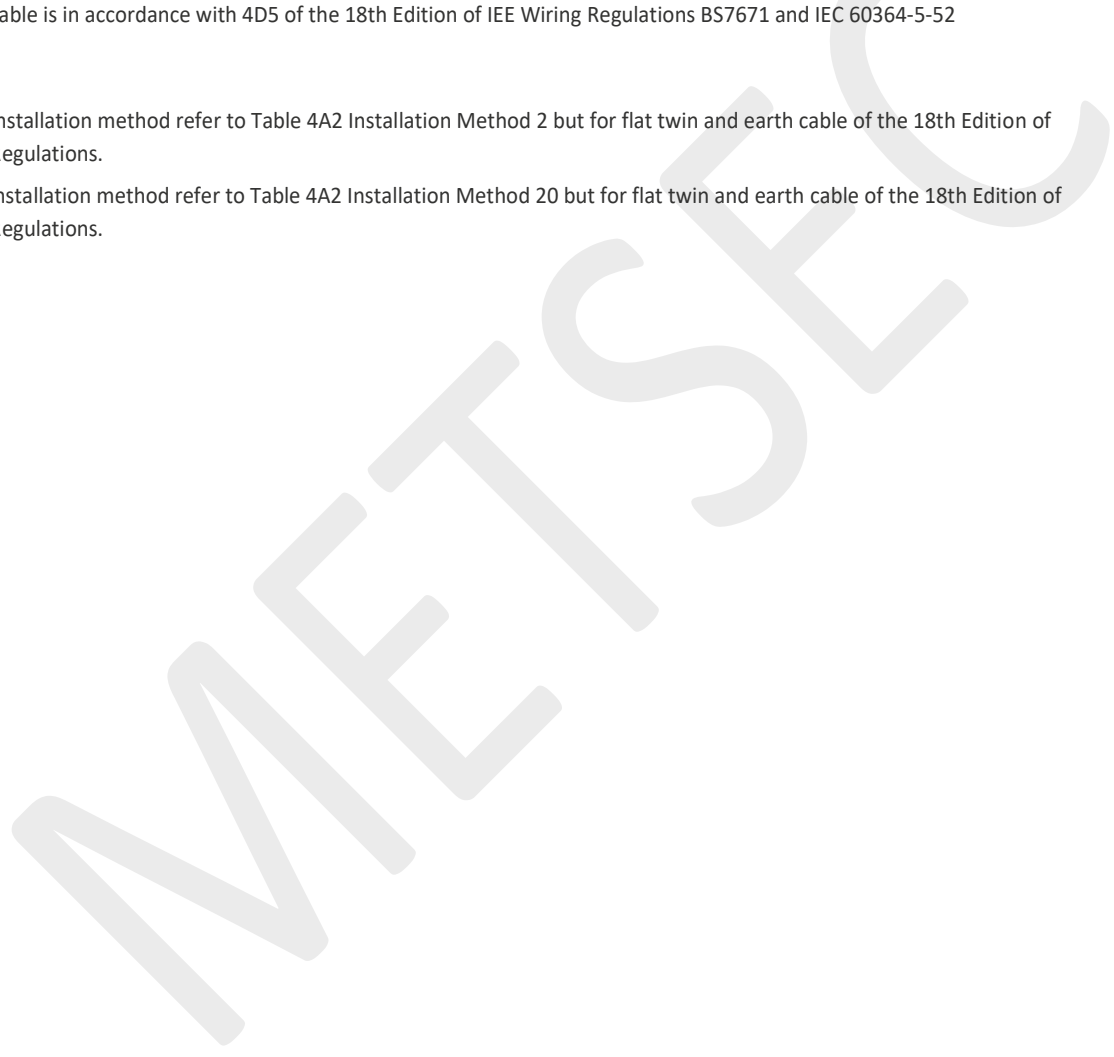
NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	REFERENCE METHOD A* (IN CONDUIT IN WALL) Amps	REFERENCE METHOD C* (CLIPPED DIRECT) Amps	VOLTAGE DROP mV/A/m
1	11.5	16	44
1.5	14.5	20	29
2.5	20	27	18
4	26	37	11
6	32	47	7.3
10	44	64	4.4
16	57	85	2.8

The above table is in accordance with 4D5 of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52

**Note**

A\* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable of the 18th Edition of IEE Wiring Regulations.

C\* For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable of the 18th Edition of IEE Wiring Regulations.



All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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