



Technical Specification										
Type	Single Core Cables non-sheathed with, multi stranded annealed EC grade Bare Copper conductor class-5, Insulated with special fire performance Halogen-free and low emission of smoke Material H07Z-K									
Sr.	Particulars	Standards	UNIT	Specification						
No.				1C x 1.50mm ²	1C x 2.50mm ²	1C x 4.00mm ²	1C x 6.00mm ²	1C x 10.0mm ²	1C x 16.0mm ²	1C x 25.0mm ²
	CONDUCTOR:									
1	Material	BS EN 60228		Electrolitic Grade, high conductivity annealed PLAIN copper wires of class 5						
2	Cond.Resi. At 20'c		Max Ω/km	13.3	7.98	4.95	3.3	1.91	1.21	0.78
3	Nos. & Dia. Of wire		Nos./mm	30 / 0.25	50 / 0.25	54 / 0.30	84 / 0.30	80 / 0.40	126 / 0.40	196 / 0.40
4	Conductor Diameters		mm	1.45 ± 0.10	1.95 ± 0.10	2.50 ± 0.10	3.10 ± 0.10	4.00 ± 0.20	5.00 ± 0.20	6.50 ± 0.20
5	Annealing Test %			18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%
	INSULATION:									
6	Material	BS EN 50525-3-41 BS EN 50363-5		Polyolefin material (Type-EI 5)						
7	Thickness of insulation		Nom.mm	0.7	0.80	0.80	0.80	1.00	1.00	1.20
8	Max conductor operating Temperature		°C	90						
9	Max Short circuit Temperature		°C	160						
10	Volume Resistivity@27°C		Ω-cm	1.28x10 ¹⁴						
11	Outer Diameter		mm	3.00 ± 0.20	3.60 ± 0.20	4.20 ± 0.20	4.80 ± 0.20	6.00 ± 0.20	7.10 ± 0.20	8.70 ± 0.20
12	Tested Voltage		Volts	2500V AC for 5 minutes						
13	Rated Voltage		Volts	450/750 V						
14	Colour Code		Red, Yellow, Blue, Black, Green							
	Fire Properties:-									
15	Oxygen Index	ASTM D 2863	% Min	30						
	Temp Index		% Min	305						
16	Smoke Density Rating	ASTM D 2843	%	12						
17	PH Value	IEC 754-2		6.7						
18	Conductivity		µS/cm	15.2						
19	Flammability test									
	a) Un affected Length from Lower Edge of Top Clamp mm	60331-11,	Min mm	50						
	b)Burning after removal of flame		Max Sec	60						
20	Printing		CALTER CABLE SIZE LSZH 450/750V, BS EN 50525-3-41 MADE IN INDIA meter marking							
21	Make		CALTER							