Application

EN 50525-3-11 Flexible LSZH cables are designed for indoor general wiring, especially in public areas where safety is a concern due to potential fire hazards. They are commonly used for pendant lighting drops, general supply leads in hospitals, airports, and other projects where minimizing fire risks, smoke emission, and toxic fumes is critical. These cables are ideal for installations in environments where human life and sensitive equipment must be protected from hazardous conditions.

Performance

Electrical performance: U_0/U: 300/500V
Chemical performance: Resistant to chemicals, UV, and oil
Mechanical performance: Minimum bending radius of 5 x overall diameter
Terminal performance:
Maximum service temperature: 70℃
Maximum short-circuit temperature: 160℃ (Max. 5s)
Minimum service temperature: -10℃
Fire performance:
Flame retardant according to IEC/EN 60332-1-2 standard
Reduced emission of halogens (chlorine <15%)

Construction

Conductor: Class 5 flexible copper conductor
Insulation: LSZH (Low Smoke Zero Halogen) Type TI6
Sheath: LSZH (Low Smoke Zero Halogen) Type TM7
Core Identification:
Two cores: Blue, Brown
Three cores: Blue, Brown, Green/Yellow
Four cores: Blue, Brown, Gray, Green/Yellow
Five cores: Blue, Brown, Gray, Black, Green/Yellow
Sheath Colour: White, Black

Specification

-EN 50525-3-11 (HD21.14), EN 60228

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Physical Performance Parameters					
No.of Cores	Nominal Cross Section Area	Max.Dia.of Individual Wires in Conductor	Nominal Thickness of Insulation	Nominal Overall Dia.	Nominal Weight
-	mm^2	mm	mm	mm	kg/km
2	0.75	0.6	0.6	6.3	57
2	1	0.6	0.6	6.6	65
2	1.5	0.7	0.7	7.4	84
2	2.5	0.8	0.8	9	130
2	4	0.8	0.8	10.4	180
3	0.75	0.6	0.6	6.7	68
3	1	0.6	0.6	7	78
3	1.5	0.7	0.7	8	107
3	2.5	0.8	0.8	9.9	163
3	4	0.8	0.8	11.1	212
4	0.75	0.6	0.6	7.3	83
4	1	0.6	0.6	7.9	100
4	1.5	0.7	0.7	9	134
4	2.5	0.8	0.8	10.8	201
4	4	0.8	0.8	12.2	290
5	0.75	0.6	0.6	8.1	103
5	1	0.6	0.6	8.3	130
5	1.5	0.7	0.7	10.4	170
5	2.5	0.8	0.8	12.1	255
5	4	0.8	0.8	15	360

Electrical Performance Parameters							
Nominal Cross Section Area	Max.D.C. Resistance of Conductor at 20℃	Voltage Drop		Current Carrying Capacity		Max. Mass Supportable by Twin Flexible Cord (refer to 522.7.2 and 559.6.1.5 of the 17th edition of IEE)	
		D.C. or single-phase A.C.	Three-phase A.C.	Single phase A.C.	Three-phase A.C.		
mm^2	Ω/km	mV/A/m	mV/A/m	amp	amp	kg	mV/A
0.75	6.3	62	54	6	6	3	2.55
1	6.6	46	40	10	10	5	1.61
1.5	7.4	32	27	16	16	5	1.17
2.5	9	19	16	25	20	5	0.868
4	10.4	12	10	32	25	5	0.609