


H07ZZ-F LSZH RUBBER FLEXIBLE CABLE



The H07ZZ-F cable, renowned for its Low Smoke Zero Halogen (LSZH) composition, serves as a reliable alternative to the H07RN-F Rubber Flexible cable. It offers comparable flexibility for power distribution while addressing fire safety concerns.

Designed to withstand various environmental challenges, this versatile cable is suitable for installations where fire, smoke, and toxic fumes pose risks to life and equipment. It can withstand medium mechanical stresses, making it suitable for both indoor and outdoor use. From supplying mobile power units to UPS installations and stage lighting, it caters to diverse applications.

Moreover, its resilience against water and weather conditions makes it an ideal choice for worksites and industrial plants with high human traffic or valuable assets

CONDUCTOR	Plain Copper
STRANDING	Class 5
INSULATION	LSZH
OUTERSHEATH	LSZH
OUTERSHEATH COLOUR	Black
RATED VOLTAGE	450/750v
CORE IDENTIFICATION	Black
MINIMUM BENDING RADIUS	Fixed: 4 x overall diameter Flexed: 6 x overall diameter
OPERATING TEMPERATURE	Fixed: -20°C to +90°C Flexed: -5°C to +50°C
STANDARDS	EN 50525-3-21, HD 22-13, CEI 20-19 Part 13, EN 60228 Flame Retardant according to IEC/EN 60332-3-10
APPROVALS	

SPECIFICATION DATA

BATT Part No	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	A2 GLANDS Brass	A2PL GLAND Plastic
22032	1	95	23.4	1290	32	40
22035	1	120	25.7	1592	40	40
22038	1	150	28.3	1957	40	40
22040	1	185	31	2350	50S	50
22042	1	240	34.45	3099	50	63
22026	1	300	37.7	3687	50	

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C - Plain Wires ohms/km
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
6	0.31	3.3
10	0.41	1.91
16	0.41	1.21
25	0.41	0.78
35	0.41	0.554
50	0.41	0.386
70	0.51	0.272
95	0.51	0.206
120	0.51	0.161
150	0.51	0.129
185	0.51	0.106
240	0.51	0.0801
300	0.51	0.0641
400	0.51	0.0486
500	0.61	0.0384

ELECTRICAL CHARACTERISTICS (1mm² to 2.5mm²)

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm	CURRENT CARRYING CAPACITY Amps - Single-Phase AC	CURRENT CARRYING CAPACITY Amps - Single-Phase AC	MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CABLE (See Regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
1	10	10	5
1.5	16	16	5
2.5	25	20	5

Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	mDC OR SINGLE-PHASE AC mV/A/m	HREE-PHASE AC mV/A/m
1	46	40
1.5	32	27
2.5	19	16

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52 Conductor operating temperature: 60°C* Note *The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cables and for other types of flexible cable they are to be multiplied by the following factors: For 90°C thermoplastic or thermosetting insulated 1.09 150°C 1.31 185°C glass fibre 1.43

ELECTRICAL CHARACTERISTICS (4mm² and above)

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	DC OR SINGLE-PHASE AC (1 TWO CORE CABLE WITH OR WITHOUT PROTECTIVE CONDUCTOR) Amps	THREE-PHASE AC (1 THREE CORE, FOUR CORE OR FIVE CORE CABLE) Amps	SINGLE-PHASE AC OR DC (2 SINGLE CORE CABLES TOUCHING) Amps
4	42	37	
6	55	49	
10	76	66	
16	103	89	
25	136	119	
35		146	200
50		177	250
70		225	310
95		273	369
120		316	432
150		363	497
185		414	564
240		487	673
300		560	773
400			924
500			1062

DE-RATING FACTORS

90°C Thermosetting (Rubber) Insulated Cables

AMBIENT TEMPERATURE	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C	85°C
DE-RATING FACTOR	0.95	0.91	0.86	0.82	0.78	0.7	0.64	0.57	0.5	0.4	0.28

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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