



German Standard Industrial Cables H07ZZ-F

Application and Description

These LSZH cables are flexible, mainly used for mobile service, suitable for installations where is required low smoke and halogen free fumes under fire conditions. Suitable for installations where the cable must withstand medium mechanical stress, for machines in industrial and agricultural workshops, for motors and some transportable machines, for wind mills and for agricultural exploitations.

Standard and Approval

HD22.13 S1 & A1
VDE-0282 Part-13
CEI 20-19 p.13
IEC 60245-4
IEC 60754
EN 61034
CE low voltage directive 73/23/EEC & 93/68/EEC
ROHS compliant

Cable Construction

Fine bare copper strands
Strands to VDE-0295 Class-5, IEC 60228 Class-5
Halogen free rubber compound EI 8 acc. to EN 50363-5
Color code to VDE-0293-308
Black halogen free rubber compound EM8 jacket

Technical Characteristics

FLEXING VOLTAGE: 450/750 volts
FIXED VOLTAGE: 600/1000 volts
TEST VOLTAGE: 2500 volts
FLEXING BENDING RADIUS: 6 x Ø
FIXED BENDING RADIUS: 4 x Ø
FLEXING TEMPERATURE: -5 °C to +70 °C
FIXED TEMPERATURE: -40 °C to +70 °C
SHORT CIRCUIT TEMPERATURE: +250 °C
FLAME RETARDANT: IEC 60332.3 C1, NF C 32-070
INSULATION RESISTANCE: 20 MΩ x km

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL THICKNESS OF SHEATH	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM ²	MM	MM	MM(MIN- MAX)	KG/KM	KG/KM

17 (32/32)	2 x 1	0.8	1.3	7.7-10	19	96
17 (32/32)	3 x 1	0.8	1.4	8.3-10.7	29	116
17 (32/32)	4 x 1	0.8	1.5	9.2-11.9	38	143
17 (32/32)	5 x 1	0.8	1.6	10.2-13.1	46	171
16 (30/30)	1 x 1.5	0.8	1.4	5.7-7.1	14.4	58.5
16 (30/30)	2 x 1.5	0.8	1.5	8.5-11.0	29	120
16 (30/30)	3 x 1.5	0.8	1.6	9.2-11.9	43	146
16 (30/30)	4 x 1.5	0.8	1.7	10.2-13.1	58	177
16 (30/30)	5 x 1.5	0.8	1.8	11.2-14.4	72	216
16 (30/30)	7 x 1.5	0.8	2.5	14.5-17.5	101	305
16 (30/30)	12 x 1.5	0.8	2.9	17.6-22.4	173	500
16 (30/30)	14 x 1.5	0.8	3.1	18.8-21.3	196	573
16 (30/30)	18 x 1.5	0.8	3.2	20.7-26.3	274	755

16 (30/30)	24 x 1.5	0.8	3.5	24.3-30.7	346	941
16 (30/30)	36 x 1.5	0.8	3.8	27.8-35.2	507	1305
14 (50/30)	1 x 2.5	0.9	1.4	6.3-7.9	24	72
14 (50/30)	2 x 2.5	0.9	1.7	10.2-13.1	48	173
14 (50/30)	3 x 2.5	0.9	1.8	10.9-14.0	72	213
14 (50/30)	4 x 2.5	0.9	1.9	12.1-15.5	96	237
14 (50/30)	5 x 2.5	0.9	2.0	13.3-17.0	120	318
14 (50/30)	7 x 2.5	0.9	2.7	16.5-20.0	168	450
14 (50/30)	12 x 2.5	0.9	3.1	20.6-26.2	288	729
14 (50/30)	14 x 2.5	0.9	3.2	22.2-25.0	337	866
14 (50/30)	18 x 2.5	0.9	3.5	24.4-30.9	456	1086
14 (50/30)	24 x 2.5	0.9	3.9	28.8-36.4	576	1332
14 (50/30)	36 x 2.5	0.9	4.3	33.2-41.8	1335	1961

12 (56/28)	1 x 4	1	1.5	7.2-9.0	38	101
12 (56/28)	3 x 4	1	1.9	12.7-16.2	115	293
12 (56/28)	4 x 4	1	2.0	14.0-17.9	154	368
12 (56/28)	5 x 4	1	2.2	15.6-19.9	192	450
12 (56/28)	12 x 4	1	3.5	24.2-30.9	464	1049