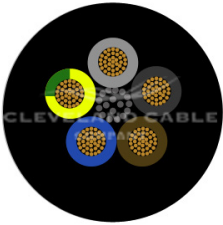


H07ZZ-F FLEXIBLE MAINS AND CONTROL CABLE



APPLICATION

Flexible cable with resistance to mechanical stress. Able to withstand water and weather. For use on work sites, mobile power supplies, for use in supplying mobile power units, UPS installations, stage lighting and audio visual equipment. Low Smoke Zero Halogen (LSZH) insulation and sheath for internal use under Construction Products Regulations June 2017.

CABLE STANDARDS

EN 50575/A1:2014+A1:2016
BS EN 60332-1-2
BS EN 50525-3-21
EN 50399
EN 60754-2
EN 61034-2

CONSTRUCTION

Conductor: Class 5 flexible stranded copper conductor

Insulation: Low Smoke Zero Halogen (EI8)

Sheath: Low Smoke Zero Halogen (EM8)

CHARACTERISTICS

Voltage Rating: 450/750 Volts

Temperature Limits: -Fixed -20°C to +90°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

2 Core: Brown Blue

3 Core: Brown Blue Green/Yellow

4 Core: Brown Black Grey
 Green/Yellow

5 Core: Brown Black Grey Blue
 Green/Yellow

6 Core and above: 4 Black with white numbers plus Green/Yellow

Should not be installed below 0°C

H07ZZ-F FLEXIBLE MAINS AND CONTROL CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO. OF CORES	WEGHT (KG/KM)	OVERALL MEAN DIAMETER (MM)	
					LOWER LIMIT	UPPER LIMIT
6381ZH25	25	196/0.40	1	450	12.7	15.8
6382ZH25	25	196/0.40	2	1210	24.3	30.7
6383ZH25	25	196/0.40	3	1394	26.1	33
6384ZH25	25	196/0.40	4	1995	28.9	36.6
6385ZH25	25	196/0.40	5	2470	32	40.4
6381ZH35	35	276/0.4	1	605	14.3	17.9
6383ZH35	35	276/0.40	3	1850	29.3	37.1
6384ZH35	35	276/0.40	4	2645	32.5	41.1
6385ZH35	35	276/0.40	5	2930	34	43
6381ZH50	50	396/0.40	1	825	16.5	20.6
6383ZH50	50	396/0.40	3	2890	34.1	42.9
6384ZH50	50	396/0.40	4	3635	37.7	47.5
6385ZH50	50	396/0.40	5	4450	39.03	49.18
6381ZH70	70	360/0.50	1	1090	18.6	23.3
6383ZH70	70	360/0.50	3	3850	38.4	48.3
6384ZH70	70	360/0.50	4	4830	42.7	54
6385ZH70	70	360/0.50	5	5938	48.5	55
6381ZH95	95	475/0.50	1	1405	20.8	26
6383ZH95	95	475/0.50	3	4185	43.3	50
6384ZH95	95	475/0.50	4	6320	48.5	61
6385ZH95	95	475/0.50	5	6695	54	64.5
6381ZH120	120	608/0.50	1	1745	22.8	28.6
6383ZH120	120	608/0.50	3	5080	47.4	60
6384ZH120	120	608/0.50	4	6500	53	66
6385ZH120	120	608/0.50	5	7542	57.9	68.5
6381ZH150	150	756/0.50	1	1824	25.2	31.4
6383ZH150	150	756/0.50	3	6267	52	66
6384ZH150	150	756/0.50	4	8031	58	73
6381ZH185	185	925/0.50	1	2202	27.6	34.4
6383ZH185	185	925/0.50	3	7661	57	72
6384ZH185	185	925/0.50	4	9830	64	80
6381ZH240	240	1221/0.50	1	2847	30.6	38.3
6383ZH240	240	1221/0.50	3	9692	65	82
6384ZH240	240	1221/0.50	4	12444	72	91
6385ZH240	240	1221/0.50	5	13720	125.5	142.6
6381ZH300	300	1525/0.50	1	3495	33.5	41.9
6381ZH400	400	2257/0.50	1	4880	45.5	56.5
6381ZH500	500	1769/0.60	1	5301	41.30	52.00
6381ZH630	630	2257/0.60	1	7460	45.50	56.50

H07ZZ-F CURRENT – CARRYING CAPACITY (AMPERES)

CONDUCTOR CROSS – SECTIONAL AREA (MM ²)	90°C CONDUCTOR OPERATING TEMPERATURE. CABLE IN FREE AIR OR RESTING ON SURFACE		
	SINGLE-PHASE AC OR DC AMBIENT AIR TEMPERATURE 30°		THREE-PHASE AC AMBIENT AIR TEMPERATURE 30°
	1 TWO CORE CABLE	2 SINGLE CORE CABLES	1 THREE CORE 1 FOUR CORE OR FIVE CORE CABLE
	(A)	(A)	(A)
25	136	-	119
35	-	200	146
50	-	250	177
70	-	310	225
95	-	369	273
120	-	432	316
150	-	497	363
185	-	564	414
240	-	673	487
300	-	773	560
400	-	924	-
500	-	1062	-
630	-	1088	-

H07ZZ-F VOLTAGE DROP

CONDUCTOR CROSS – SECTIONAL AREA	1 X THREE CORE, FOUR CORE OR FIVE CORE CABLE, THREE PHASE AC			2 X SINGLE CORE CABLES TOUCHING			
	(mV/A /m)			DC mV/A/m	SINGLE PHASE AC * MVIA/M		
	R	X	Z	(mV/A /m)	R	X	Z
25	1.73	0.15	1.73	2.03	-	-	-
35	1.22	0.15	1.23	1.42	1.44	0.21	1.46
50	0.91	0.145	0.93	1.00	1.00	0.21	1.02
70	0.62	0.14	0.64	0.71	0.71	0.20	0.73
95	0.47	0.135	0.49	0.54	0.54	0.195	0.57
120	0.37	.0135	0.39	0.42	0.42	0.19	0.46
150	0.29	0.13	0.32	0.34	0.34	0.19	0.39
185	0.24	0.13	0.27	0.27	0.27	0.19	0.33
240	0.18	0.13	0.23	0.21	0.21	0.185	0.28
300	0.147	0.125	0.195	0.167	0.173	0.175	0.25
400	-	-	-	0.127	0.132	0.17	0.22
500	-	-	-	0.100	0.107	0.170	0.200
630	-	-	-	0.100	0.100	0.165	0.195

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

R = RESISTIVE COMPONENT
X = REACTIVE COMPONENT
Z = IMPEDANCE VALUE

* A LARGER VOLTAGE DROP WILL RESULT IF THE CABLES ARE SPACED APART

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.