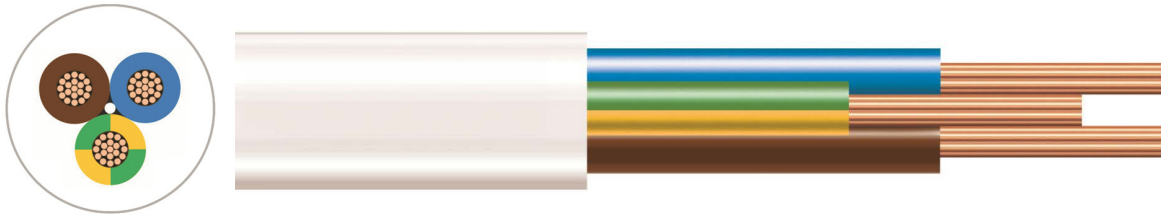



## 318-B / H05Z1Z1-K LSZH FLEXIBLE CABLE



The 318B H05Z1Z1-F cable is crafted for indoor general wiring in public areas, such as hospitals, shopping centers, and airports. Engineered to address risks associated with fire, smoke emission, and toxic fumes, ensuring safety for both life and equipment.

<b>CONDUCTOR</b>	Plain Copper
<b>STRANDING</b>	Class 5
<b>OUTERSHEATH</b>	LSZH
<b>OUTERSHEATH COLOUR</b>	Black, White
<b>RATED VOLTAGE</b>	500V
<b>CORE IDENTIFICATION</b>	2 core: Blue Brown 3 core: Green/Yellow Blue Brown 4 core: Green/Yellow Brown Black Grey 5 core: Green/Yellow Brown Black Grey Blue
<b>MINIMUM BENDING RADIUS</b>	Overall Bending Radius 5x
<b>OPERATING TEMPERATURE</b>	70°C
<b>STANDARDS</b>	50525-3-11, EN 50363-7, EN50363-8, EN 50575:2014 + A1
<b>APPROVALS</b>	

## SPECIFICATION DATA

BATT Part No	Cores	Nominal cross sectional area of conductor	Radial thickness of insulation	Approx overall diameter	Weight
45342	2	0.75	0.6	6.3	60
45343	2	1	0.6	6.7	70
45373	2	1.5	0.7	7.6	84
45388	2	2.5	0.8	8.7	135
45489	2	4	0.8	10	190
45305	3	0.75	0.6	6.7	71
45219	3	1	0.6	7.1	82
45357	3	1.5	0.7	8.3	110
45398	3	2.5	0.8	9.5	165
45351	3	4	0.8	10.8	240
45589	3	6	-	12.7	299
45638	3	10	-	16.4	475
45592	3	16	-	18.1	740
45466	4	0.75	0.6	7.2	79
45465	4	1	0.6	7.9	105
45464	4	1.5	0.7	9.3	135
45471	4	2.5	0.8	10.4	200
45487	4	4	0.8	12	290
45639	4	6	-	15	290
45640	4	10	-	12	290
45641	4	16	-	12	290
45444	5	0.75	0.6	8.2	100
45446	5	1	0.6	8.6	130
45448	5	1.5	0.7	10.1	170
45450	5	2.5	0.7	10.8	260
45582	5	4	0.8	14	326
45642	5	6	-	14	326
45643	5	10	-	19.4	821
45644	5	16	-	22.7	1176
45672	6	1	-	9.5	144
45803	7	1	-	9.7	180
45804	7	1.5	-	11.3	245
45646	7	2.5	-	12.7	350
45647	7	4	-	12.7	350
45396	12	0.75	-	12.2	232.8
45648	12	1	-	12.3	300
45649	12	1.5	-	15	390

## RATING TABLES

**TABLE 4F3A - Flexible cables, non-armoured (COPPER CONDUCTORS)**

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

Conductor cross-sectional area	Current-carrying capacity		Maximum mass supportable by twin flexible cable (see Regulations 522.7.2 and 559.5.2)
	Single-phase AC	Three-phase AC	
1	2	3	4
(mm <sup>2</sup> )	(A)	(A)	(kg)
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

Where cable is on a reel see the notes to Table 4F1A.

**RATING FACTOR FOR AMBIENT TEMPERATURE**

60 °C thermoplastic or thermosetting insulated cable:

Ambient temperature	35 °C	40 °C	45 °C	50 °C	55 °C
Rating factor	0.91	0.82	0.71	0.58	0.41

110 °C flexible cable:

Ambient temperature	35 to 80 °C	85 °C	90 °C	95 °C	100 °C	105 °C
Rating factor	1.0	0.96	0.85	0.74	0.60	0.42

90 °C thermoplastic or thermosetting insulated cable:

Ambient temperature	35 to 50 °C	55 °C	60 °C	65 °C	70 °C
Rating factor	1.0	0.96	0.83	0.67	0.47

150 °C flexible cable:

Ambient temperature	35 to 120 °C	125 °C	130 °C	135 °C	140 °C	145 °C
Rating factor	1.0	0.96	0.85	0.74	0.60	0.42

Glass fibre flexible cable:

Ambient temperature	35 to 50 °C	155 °C	160 °C	165 °C	170 °C	175 °C
Rating factor	1.0	0.92	0.82	0.71	0.57	0.40

**TABLE 4F3B**

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 60 °C

Conductor cross-sectional area	DC or single-phase AC	Three-phase AC
1	2	3
(mm <sup>2</sup> )	(mV/A/m)	(mV/A/m)
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

**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
	110 °C	1.17
	150 °C	1.31
	185 °C glass fibre	1.43

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.