

DISTRIBUTION BOARD SCHEDULE

Date: 28/05/2019

Made by: J. SMITH

Checked by: J. SMITH 2666

Approved by: J. SMITH 3



Project : LONDON-RAIL-AIPOINTS	Location : LONDON	Project No : 2019-04-SC-2500-00002
		Rev No.: 0

Distribution Board Ref: DB-2	Location / Designation : Plant Room 2	Ess: N	No of Ways: 24 WAY	Phase : TP&N	Rating: 125 A	CPD : MCB's	Rated SCC Icn : 16 kA	Incoming device :			Supply Cable (Ref./Size): CBL-DB-2 1 x 1 x 4c 70+16CPC	External parameters:	
								Rating: 125 A	I _{Δn} : N/A	Type: Switch		Spares: 54%	I _p : 5.47 kA

Way No.	Circuit Details			Protective Device					AFDD	Cable Details								
	Description / Designation	Load Type	Circuit Type	Type	Rating		t _{delay}	Type (BS EN 60898)	Volt Drop (2)	Rating	Cable			CPC		Inst' Number (note 3)	Breaking Capacity (kA)	Length (m)
					I ₂ (1)	I _{Δn}					I _{Δn}	No. of Cond'	csa (mm ²)	Cable Type	csa (mm ²)			
1L1	Lighting - LCM01	Lighting		MCB	10	N/A	0.4	Type C	2.08	N/A	4 x 3c	2.5	S-C 70°C thermoplastic non-arm Cu	1.0	Separate	41	10	52
1L2	Lighting - LCM02	Lighting		MCB	10	N/A	0.4	Type C	3.74	N/A	4 x 3c	2.5	S-C 70°C thermoplastic non-arm Cu	1.0	Separate	41	10	52
1L3	Lighting - LCM01	Lighting		MCB	10	N/A	0.4	Type C	2.51	N/A	4 x 3c	2.5	S-C 70°C thermoplastic non-arm Cu	1.0	Separate	41	10	52
2L1	SPARE																	
2L2	Kitchen	Lighting		MCB	10	N/A	0.4	Type C	4.31	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
2L3	SPARE																	
3L1																		
3L2	Kitchen	Power		RCBO	25	30mA	0.4	Type B	1.84	N/A	4 x 5c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
3L3																		
4L1	Office - Circuit 1	Power		RCBO	20	30mA	0.4	Type C	2.82	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
4L2	Office - Circuit 2	Power		RCBO	20	30mA	0.4	Type C	5.86	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
4L3	Office - Circuit 3	Power		RCBO	32	30mA	0.4	Type C	2.48	N/A	2 x 3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
5L1	Circuit 3	Lighting		RCBO	20	30mA	0.4	Type C	2.31	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
5L2	Circuit 4	Lighting		RCBO	20	30mA	0.4	Type C	3.97	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
5L3	Circuit 5	Lighting		RCBO	20	30mA	0.4	Type C	2.74	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
6L1	Circuit 6	Lighting		RCBO	20	30mA	0.4	Type C	2.31	20A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
6L2	Circuit 7	Power		RCBO	20	30mA	0.4	Type C	5.12	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
6L3	Circuit 8	Lighting		RCBO	20	30mA	0.4	Type C	2.74	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
7L1	Circuit 9	Lighting		RCBO	20	30mA	0.4	Type C	1.77	N/A	2 x 4c	6.0	M-C 90°C thermosetting	6.0	Integral	20	10	10
7L2	Circuit 10	Lighting		RCBO	20	30mA	0.4	Type C	3.97	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
7L3	Circuit 11	Lighting		RCBO	20	30mA	0.4	Type C	2.74	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
8L1	Circuit 12	Lighting		RCBO	20	30mA	0.4	Type C	2.31	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
8L2	Circuit 13	Lighting		RCBO	16	30mA	0.4	Type C	3.97	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
8L3	Circuit 14	Lighting		RCBO	20	30mA	0.4	Type C	3.88	N/A	3c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	50
9L1																		
9L2	Circuit 15	Power		MCB	40	N/A	5	Type C	1.83	N/A	5c	6.0	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	15	10
9L3																		
10L1																		
10L2	Heating Supply	Power		Fuse	25	N/A	0.4	Fuse	1.79	N/A	6 x 5c	16.0	S-C 70°C thermoplastic non-arm Cu	10.0	Separate	10	80	50
10L3																		
11L1																		
11L2	Circuit 16	Power		MCB	20	N/A	0.4	Type C	1.91	N/A	4 x 4c	2.5	S-C 70°C thermoplastic non-arm Cu	2.5	Separate	20	10	10
11L3																		
12L1	SPARE																	
12L2	SPARE																	
12L3	SPARE																	
13L1	SPARE																	

Distribution Board Ref:	Location / Designation :	Ess:	No of Ways:	Phase :	Rating:	CPD :	Rated SCC Icn :	Incoming device :			Supply Cable (Ref./Size):	External parameters:	
DB-2	Plant Room 2	N	24 WAY	TP&N	125 A	MCB's	16 kA	Rating:	I _{Δn}	Type:	Spares	CBL-DB-2	I _p 5.47 kA
								125 A	N/A	Switch	54%	1 x 1 x 4c 70+16CPC	Z _e 0.3396 Ω

Way No.	Circuit Details			Protective Device					AFDD	Cable Details								
	Description / Designation	Load Type	Circuit Type	Type	Rating		t _{delay}	Type (BS EN 60898)	Volt Drop (2)	Rating	Cable			CPC		Inst' Number (note 3)	Breaking Capacity (kA)	Length (m)
					I ₂ (1)	I _{Δn}				I _{Δn}	No. of Cond'	csa (mm ²)	Cable Type	csa (mm ²)	Cable Type			
13L2	SPARE																	
13L3	SPARE																	
14L1	SPARE																	
14L2	SPARE																	
14L3	SPARE																	
15L1	SPARE																	
15L2	SPARE																	
15L3	SPARE																	
16L1	SPARE																	
16L2	SPARE																	
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23L2	SPARE																	
23L3	SPARE																	
24L1	SPARE																	
24L2	SPARE																	
24L3	SPARE																	

- Notes:
- 1 Volt drop mesured from source.
 - 2
 - 3

28/05/2019	0		J. SMITH	J. SMITH 2666	J. SMITH 3
Date	Revision	Description	Made	Chk	App