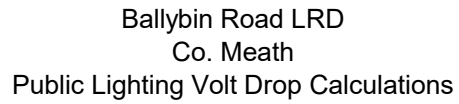




Ballybin Road LRD
Co. Meath
Public Lighting Volt Drop Calculations

Date Issued: 21-06-2024
Revision 03
Project Ref: 3237

Circuit	No of. Fittings	Load [kw]	lb	Cable Type	Cable size	Cable current carrying rating	lz	Circuit length	Volt Drop factor	Max Volt Drop	Actual volt drop
						Table 4D4A		Table 4D4B		5%	
PL-01-C1	4	0.27	1.1609	NYCY	6mm2	59	59	156	7.3	11.5	1.322
PL-01-C2	3	0.21	0.9217	NYCY	6mm2	59	59	102	7.3	11.5	0.68633
PL-01-C3	2	0.02	0.0783	NYCY	6mm2	59	59	144	7.3	11.5	0.08227
PL-02-C1	3	0.20	0.8478	NYCY	6mm2	59	59	70	7.3	11.5	0.43324
PL-02-C2	4	0.23	1	NYCY	6mm2	59	59	99	7.3	11.5	0.7227
PL-02-C3	3	0.06	0.2478	NYCY	6mm2	59	59	106	7.3	11.5	0.19177
PL-03-C1	3	0.06	0.2739	NYCY	6mm2	59	59	72	7.3	11.5	0.14397
PL-03-C2	6	0.15	0.6435	NYCY	6mm2	59	59	132	7.3	11.5	0.62006
PL-04-C1	3	0.06	0.2739	NYCY	6mm2	59	59	113	7.3	11.5	0.22595
PL-04-C2	4	0.11	0.4696	NYCY	6mm2	59	59	119	7.3	11.5	0.40791



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Circuit	No of. Fittings	Load [kw]	lb	Cable Type	Cable size	Cable current carrying rating	Iz	Circuit length	Volt Drop factor	Max Volt Drop	Actual volt drop
Table 4D4A						Table 4D4B 5%					
PL-04-C3	3	0.08	0.3522	NYCY	6mm2	59	59	109	7.3	11.5	0.28022
PL-05-C1	3	0.08	0.3522	NYCY	6mm2	59	59	92	7.3	11.5	0.23652
PL-05-C2	2	0.05	0.2348	NYCY	6mm2	59	59	51	7.3	11.5	0.08741
PL-06-C1	4	0.26	1.1174	NYCY	6mm2	59	59	210	7.3	11.5	1.71296
PL-06-C2	3	0.21	0.9217	NYCY	6mm2	59	59	76	7.3	11.5	0.51138
PL-06-C3	4	0.22	0.9565	NYCY	6mm2	59	59	119	7.3	11.5	0.83093