

OBRA: CONSTRUÇÃO DE 01 (UMA) QUADRA POLIESPORTIVA COBERTA
LOC. BELO MONTE - ZONA RURAL - OEIRAS

4.2 QUEDA DE TENSÃO DOS CONDUTORES DE ENERGIA ELÉTRICA DA QUADRA

CABO COBRE ISOLADO EPR 90°C 2,5mm ² CU					
TRECHO	COMPRIMENTO DO TRECHO (m)	R	POTENCIA TOTAL DO TRECHO (W)	TENSÃO FASE/NEUTRO (V)	QUEDA DE TENSÃO (%)
		LED			
		118,0 W			
CIRCUITO 1					
MED - A1	9,0	5,0	590,0	220	4,16%
A1 - I	12,0	4,0	472,0	220	4,34%
I - H	6,0	3,0	354,0	220	4,41%
H - J	6,0	2,0	236,0	220	4,45%
H - G	6,0	1,0	118,0	220	4,43%
CIRCUITO 2					
MED - A2	9,0	4,0	472,0	220	4,13%
A2 - B	12,0	1,0	118,0	220	4,17%
A2 - O	18,0	3,0	354,0	220	4,33%
O - N	6,0	1,0	118,0	220	4,35%
O - Q	6,0	1,0	118,0	220	4,35%
CIRCUITO 3					
MED - A3	9,0	4,0	472,0	220	4,13%
A3 - M	6,0	4,0	472,0	220	4,22%
M - P	6,0	1,0	118,0	220	4,24%
M - L	6,0	2,0	236,0	220	4,26%
L - K	6,0	1,0	118,0	220	4,28%
CIRCUITO 4					
MED - A4	9,0	0,0	0,0	220	4,00%
A4 - C	12,0	1,0	118,0	220	4,04%
A4 - F	6,0	3,0	354,0	220	4,07%
F - E	6,0	2,0	236,0	220	4,11%
E - D	6,0	1,0	118,0	220	4,13%
				MAIOR PERCENTUAL DE	4,45%

A - corrente em amperes no trecho

I - comprimento do trecho

Fator de potência considerado 0,95 para cálculo

Queda de tensão no ponto de entrega considerada: 4%



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4.2.1 - MEMÓRIA DE CÁLCULO - COMPRIMENTO DE CABOS DA QUADRA

TRECHO	CABO	QNTD. DE CONDUTORES	COMPRIMENTO DO TRECHO (m)	TOTAL CABO	ELETRODUTO
MED - A1	2,5mm ²	3	9,0	27m	0m
A1 - I	2,5mm ²	3	12,0	36m	12m
I - H	2,5mm ²	2	6,0	12m	6m
H - J	2,5mm ²	2	6,0	12m	6m
H - G	2,5mm ²	2	6,0	12m	6m
MED - A2	2,5mm ²	2	9,0	18m	0m
A2 - B	2,5mm ²	2	12,0	24m	0m
A2 - O	2,5mm ²	3	18,0	54m	18m
O - N	2,5mm ²	3	6,0	18m	6m
O - Q	2,5mm ²	3	6,0	18m	6m
MED - A3	2,5mm ²	2	9,0	18m	0m
A3 - M	2,5mm ²	2	6,0	12m	0m
M - P	2,5mm ²	2	6,0	12m	0m
M - L	2,5mm ²	3	6,0	18m	6m
L - K	2,5mm ²	3	6,0	18m	6m
MED - A4	2,5mm ²	2	9,0	18m	0m
A4 - C	2,5mm ²	3	12,0	36m	12m
A4 - F	2,5mm ²	2	6,0	12m	0m
F - E	2,5mm ²	3	6,0	18m	6m
E - D	2,5mm ²	3	6,0	18m	6m

TOTAL*	2,5mm ²	419,00m
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ELETRODUTO 25mm PEAD*	98m
ELETRODUTO 32mm (MED-A)*	6m Galv. + 6m PEAD

*Percentual de perda de 2%