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Let G be a nilpotent group with cyclic commutator subgroup of order p^n and let F be a field of characteristic p . It is shown here that the Lie derived length of the group algebra FG is at most $\lceil \log_2(p^n + 1) \rceil$. Furthermore, this bound is achieved if and only if one of the following conditions is satisfied: (i) p is odd; (ii) $p = 2$ and $n \leq 2$; (iii) $p = 2$, $n \geq 3$ and the nilpotency class of G is at most n .

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