Zbl 213.51003
Bosák, J.; Erdős, Paul; Rosa, A.
Decompositions of complete graphs into factors with diameter two (In English)
Mat. Čas., Slovensk. Akad. Vied 21, 14-28 (1971).

Let $f(k)$ be the smallest integer n so that the complete graph $\langle n \rangle$ can be decomposed into k edge disjoint subgraphs of diameter 2. The authors prove: (1) $f(k) < \left(\frac{49}{10}\right)^2 k^2 \log k$. Recently *N. Sauer* considerably improved (1) by showing $f(k) < 7k$ [cf. the paper reviewed below, J. Comb. Theory 9, 423-426 (1970; Zbl 213.51004)].

Classification:
05C70 Factorization, etc.