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使用这种双绞线的链路的工作距离为

$$\frac{20dB}{0.7dB/km} = 28.6km$$

若使该双绞线的工作距离增大到100公里，则衰减应降低到

$$20dB \div 100km = 0.2dB/km$$

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$$\begin{aligned} S \cdot A &= \frac{1}{8} \sum_{i=1}^8 S_i A_i = \frac{1}{8} (+1 - 1 + 3 + 1 - 1 + 3 + 1 + 1) = 1 \\ S \cdot B &= \frac{1}{8} \sum_{i=1}^8 S_i B_i = \frac{1}{8} (+1 - 1 - 3 - 1 - 1 - 3 + 1 - 1) = -1 \\ S \cdot C &= \frac{1}{8} \sum_{i=1}^8 S_i C_i = \frac{1}{8} (+1 + 1 + 3 + 1 - 1 - 3 - 1 - 1) = 0 \\ S \cdot D &= \frac{1}{8} \sum_{i=1}^8 S_i D_i = \frac{1}{8} (+1 + 1 + 3 - 1 + 1 + 3 + 1 + 1) = 1 \end{aligned}$$

因此A、D发送了1，B发送了0，C未发送任何数据。