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even code

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Defines	doubly-even code
Defines	strictly even code

A binary code is called *even* if the Hamming weight of all its codewords is even. Furthermore, a binary code is called *doubly-even* if the Hamming weight of all its codewords is divisible by 4. An even code which is not doubly-even is said to be *strictly even*.

Examples of doubly-even codes are the extended binary Hamming code of block length 8 and the extended binary Golay code of block length 24. These two codes are, in addition, self-dual.