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****II)**How many connections are required for 30 nodes to be connected in a full mesh topology? (**Calculation Exercise)****

number of connections = (nodes)×(nodes − 1)∕2.

So my answer is : 30\*29/2 = 435

****III)** Each individual link channel is characterized by a number of different properties. Some of them are a) type of medium, b) signaling method, c) directionality of signals, d) nature of the interfaces with the end nodes and with other links. What are the other properties? **(Please type your answer, this is not a calculation exercise)****

its bandwidth,

restrictions on the length of the channel,

the time delay between the time the channel receives data from its incoming node and the time it releases the data to its outgoing node,

the number of connections sharing the channel,

the noise characteristics of the channel,

the way in which packets are steered through the channel from link to link (see the next part of this section), the electrical or optical properties of the channel.