

Plenum vs Non Plenum PVC Network Ethernet Cables.

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The differences between various PVC-rated network cables, focusing on their outer jacket material and appropriate usage environments. The three main types discussed are:

Plenum (CMP) Cables: These are designed for use in "plenum spaces," which are areas with open air circulation, like the space between a drop ceiling and the structural ceiling. They are highly fire-resistant and do not produce toxic fumes when burned, making them crucial for fire safety in such areas. They are more expensive and primarily used for commercial purposes.

Riser (CMR) Cables: These cables are designed for vertical installations, running between floors in a building through risers or vertical shafts. They prevent fires from spreading between floors but have less strict fire ratings than plenum cables and should not be used in plenum areas. They are less expensive than plenum cables.

CM Cables: These are general-purpose network cables with minimal fire restrictions, typically used for connecting devices within a single room, such as a computer to a wall jack. They are the cheapest of the three types.

