What size fiber optic cable should you choose for shopping mall cash registers

AI Overview

For shopping mall cash registers, a multimode fiber optic cable with a 50 µm core (OM3 or OM4) is typically the best choice for short-distance, high-speed connections.Recommended Fiber TypeMultimode fiber (MMF) is ideal for indoor, short-distance applications like connecting cash registers to a central network switch. MMF supports high-speed data transmission over distances up to 300–550 meters, which is sufficient for most shopping mall layouts . OM3 or OM4 ratings are preferred because they allow 10 Gbps or higher speeds while maintaining low signal loss .Core Size50 µm core diameter: Standard for OM3 and OM4 multimode fiber, allowing multiple light modes to propagate efficiently over short distances .62.5 µm core: Older standard (OM1/OM2), less suitable for modern high-speed networks due to lower bandwidth and shorter reach .Connector and Jacket ConsiderationsConnectors: LC connectors are commonly used for point-of-sale systems due to their compact size and compatibility with network switches .Indoor-rated jacket: Choose a cable with a plenum or riser-rated jacket to meet fire safety codes in commercial buildings .Optional armored layer: If the cable will be exposed to potential physical damage, armored fiber provides extra protection .Distance and SpeedFor distances under 300 meters, OM3 or OM4 multimode fiber is sufficient for 1–10 Gbps connections .Single-mode fiber (SMF) is unnecessary for cash registers unless the network requires connections over several kilometers, which is uncommon in a shopping mall .Summary RecommendationFor a shopping mall cash register network:Fiber type: Multimode (MMF)Core size: 50 µm (OM3 or OM4)Connector: LC duplexJacket: Indoor-rated (plenum or riser)Optional: Armored for high-risk areas This configuration ensures high-speed, reliable, and future-proof connectivity for point-of-sale systems...

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