







-GENESIS-

PoE and Bandwidth Reference Guide

Power Over Ethernet (PoE) Cable provides both data and electric power to a device, eliminating the need for additional wiring. Most category cable installed today offers PoE functionality, but bandwidth limits – the maximum amount of data that can be transferred along a cable – dictate the most appropriate application for each type of cable.

Cable Type	Bandwidth @ 100 Meters	Bandwidth @ 30 Meters	Recommended PoE Limit
Category 6A	10 Gbps	40 Gbps	60W+
Category 6+	1 Gbps	10 Gbps	Up to 60W
Category 6	1 Gbps	10 Gbps	Up to 25.5W
Category 5e	1 Gbps	1 Gbps	Up to 12.95W

Recommended Applications

Data centers	Wireless access points	IP video surveillance	Digital signage	VoIP phones	Basic voice + data networks
					
Category 6A					
Category 6+					
Category 6					
Category 5e					