

Extended Distance Guarantee Copper

Extended Application Drive Distances: Aginode recommends installing LAN cabling in accordance with the relevant structured cabling standards to ensure long-term support for evolving and future applications.

For projects requiring enhanced performance, Aginode offers application-specific warranties that guarantee support for the applications listed below over the extended channel distances shown.

Application drive distance (m)		LANmark Channel					
		Unscreened*	Screened				
		Cat 6	Cat 6	Cat 6A AWG 23	Cat 6A AWG 22	Cat 7A AWG 23	Cat 7A AWG 22
10BASE-T Ethernet	without PoE	177	177	177	177	177	177
	with PoE	130	130	145	160	165	177
100BASE-T Fast Ethernet	without PoE	140	140	145	160	145	160
	with PoE	130	130	145	160	145	160
1000BASE-T Gigabit Ethernet	without PoE	100	115	145	160	145	160
	with PoE	100	115	145	160	145	160
2.5GBASE-T 2.5 Gigabit Ethernet	without PoE	100	100	125	135	125	135
	with PoE	100	100	125	135	125	135
5GBASE-T 5 Gigabit Ethernet	without PoE	100	100	125	135	125	135
	with PoE	100	100	125	135	125	135
10GBASE-T 10 Gigabit Ethernet	without PoE	N/A	N/A	105	125	105	125
	with PoE	N/A	N/A	100	100	100	100

Notes:

- Distances are valid
 - ✓ For 2-connector channel configurations
 - ✓ For PoE Type 4 (IEEE 803.bt)
 - ✓ At 20°C. For operating temperatures up to 60°C, the length shall be reduced according to ISO/IEC 11801-2
- The extended distances guaranteed in Category 6A are valid only for channels equipped with ULTIM connectors
- Indicated channel lengths include 5m total cordage (e.g. 2m + 3m patch cord)
- For Category 7A channels, GG45/RJ45 conversion cords are to be used (Aginode part number N101.2DAxO)

(*): U/UTP extended drive distances apply only to discrete unbundled cable runs which must be installed so as to avoid the effects of alien crosstalk.