

## 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		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 802.3bt)
  - ✓ 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 links equipped with ULTIM connectors
- Indicated channel lengths include 5m total cordage (e.g. 2m + 3m patch cord)
- For Cat.7A channels, GG45/RJ45 conversion cords are to be used Aginode ref. 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.