



Rugged Outdoor Cable is Vital
to Network Performance

Cable You Can Trust

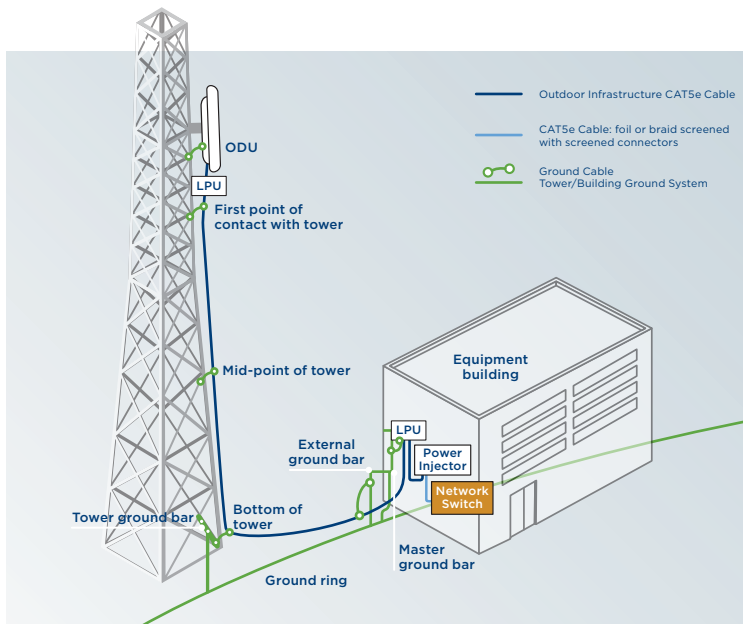
Achieving system-level 99.999% availability and high customer satisfaction requires a complete system solution. End-to-end connectivity includes high performance radios, management systems, and proper installation and grounding. Commercial or indoor Ethernet cable is insufficient for wireless broadband applications and can put both your connectivity and reputation at risk. Choose the right cable to deliver the best connectivity.

Durability: Cable needs to withstand outdoor conditions over the long term, including the following:

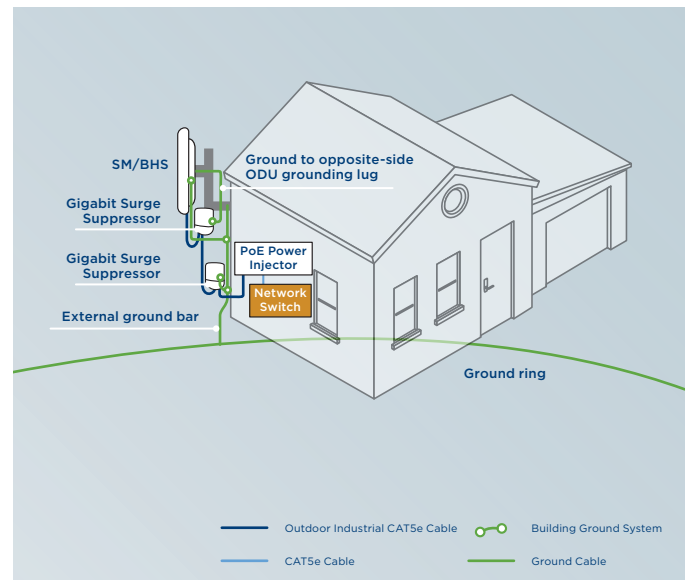
- Water ingress
- UV and sunlight exposure
- Rodent activity
- Mechanical wear and abrasion

Performance: Installations need to provide high-capacity connectivity. The solutions must provide:

- Crosstalk protection
- Shielding from EMI and RF interference



INSTALLATION AT A TOWER



INSTALLATION AT A RESIDENCE

SPECIFICATIONS

	INDUSTRIAL GRADE	INFRASTRUCTURE GRADE
Recommended Applications	PMP 450i SMs, ePMP 1000/2000, cnPilot, Tactical Installations of PTP links	PTP 670, PTP 700, PMP 450m, PMP 450i APs
Construction	70% Copper Braid Mesh and 100% Aluminum Foil	100% Copper Clad Steel and Gel-filled
Conductors	24 gauge solid copper	24 gauge solid copper
Jacket	Industrial Grade PVC	Polyethylene
Diameter	8.4 mm	9.1 mm
Model Numbers		
1,000 ft. / 300 meter	N000000L108A	WB3175A
328 ft. / 100 meter	N000000L107A	WB3176A
50 meter	N000000L106A	Not available
Recommended RJ-45 Connectors	C000000L109A (100 pack shielded)	WB3177B (100 pack unshielded)
Recommended RJ-45 Crimp Tool	C000000L110A	WB3211A

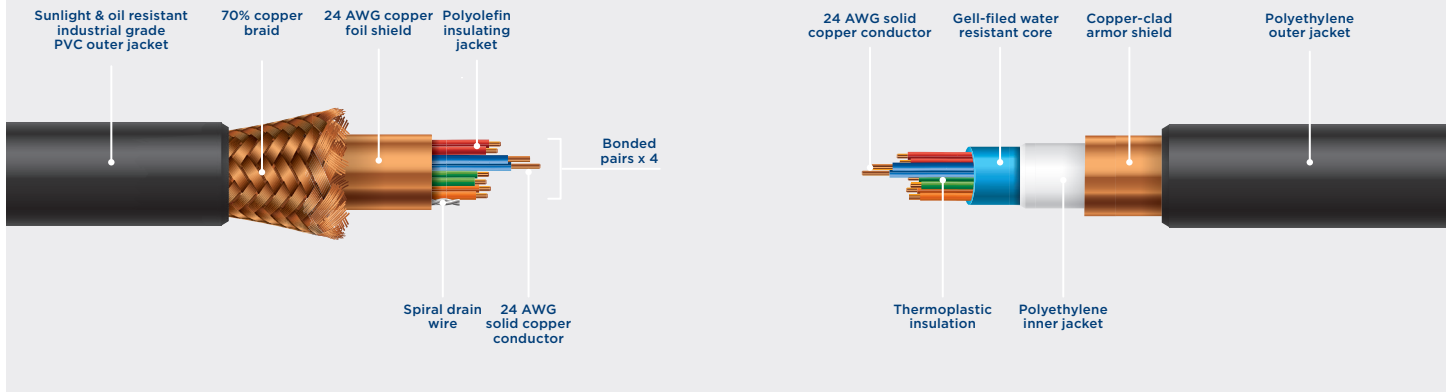
Choose the Right Solution

Industrial Grade

- Bonded pairs for consistency in performance on long drop cables
- Sunlight and oil resistant industrial grade PVC jacket
- 24 gauge solid copper conductors

Infrastructure Grade

- Sunlight and weather resistant polyethylene jacket
- Copper-clad armor for shielding, mechanical protection and rodent resistance
- Gel-filled for preventing water intrusion
- 24 gauge solid copper conductors



QUALITY THROUGH VERIFICATION TESTING

CHARACTERIZATION TESTING	WIRELESS INSTALLATION THREATS	TYPICAL STANDARD COMMERCIAL CABLE	INDUSTRIAL CABLE FEATURES	INFRASTRUCTURE CABLE FEATURES
Abrasion	Tower struts, building corners	Exposed conductors leading to loss of mechanical and electrical integrity	Industrial PVC	Polyethylene Jacket
Cold bend	-40C; tight radii on tower runs	Brittle / cracked jacket exposes conductors	Industrial PVC; bonded pairs	Polyethylene Jacket
Cold Impact	-40C; cable motion in heavy winds	Brittle / cracked jacket exposes conductors	Industrial PVC	Polyethylene Jacket
Crushing	Aggressive wire-ties and strapping. Stepped on cables	Risk of shorting	Rugged outer jacket	Copper clad steel shield
Cut-through	Punctures	Risk of shorting	Copper braid	Copper clad
High temperature	+75C	Increased impedance over time	+75C	+75C
Oil exposure	Solvents, chemicals on towers	Compromised jacket exposes conductors to chemicals and water	Industrial PVC	Polyethylene Jacket
UV exposure	Long-term outdoor exposure	Discoloration , brittleness	Industrial PVC	Polyethylene Jacket
Water Immersion	Flooding; heavy rains	Increased impedance and imbalances due to water intrusion	Industrial PVC	Gel-filled and dry water block

ABOUT CAMBIUM NETWORKS

Cambium Networks is a leading global provider of wireless connectivity solutions that strengthen connections between people, places and things. Specializing in providing an end-to-end wireless fabric of reliable, scalable, secure, cloud-managed platforms that perform under demanding conditions, Cambium Networks empowers service providers and enterprise, industrial and government network operators to build intelligent edge connectivity. Cambium Networks' commitment to continuous innovation and social responsibility in wireless access is demonstrated in the millions of radios deployed in thousands of networks that benefit communities around the world. Headquartered outside Chicago and with R&D centers in the U.S., U.K. and India, Cambium Networks sells through a range of trusted global distributors.

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