



CAT6 UTP Network Cable (RJ45-BRL)

Product Number: 990513

Product Overview

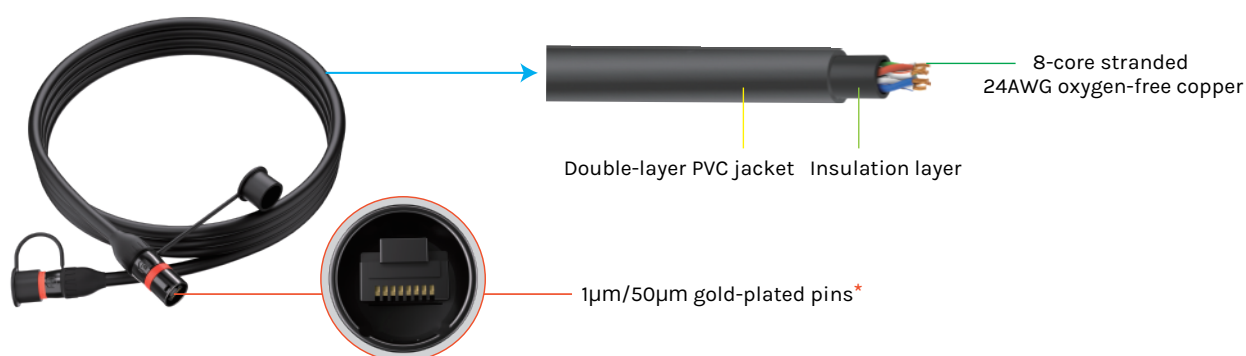
The W100-xxM-B Series is a CAT6 UTP network cable specifically developed for the rental market. Available in a wide range of lengths from 0.8m to 100m. The 0.8m to 1.2m lengths are designed for connections between LED rental panels, while the 5m to 100m lengths are ideal for long-distance transmission between LED sending and receiving cards. The cable features a 7 * 8 cores 24AWG stranded oxygen-free copper conductor and a double-layer thick composite jacket, offering excellent flexibility and maintaining reliable performance even in low-temperature environments. Terminated with gold-plated RJ45 plugs and RJ45-BRL waterproof connectors, the cable supports over 5,000 plug cycles, ensuring long-term durability in frequent rental use.



Product Features

- RJ45 plug to RJ45 plug unshielded CAT6 network cable with 8 copper cores.
- 8-core stranded 24AWG oxygen-free copper.
- Transmission rate of at least 1000Mbps.
- Improved 100P dual-layer thick outer jacket with high flexibility
- Gold-plated contact pins: Gold-plated contact pins: 1µm/50µm.
- The RJ45-BRL waterproof connector complies with IP65 protection rating (dust-tight and protected against water jets).
- The RJ45-BRL connector features a newly developed metal-overmolding process, along with a secure, pull-out-resistant design.
- Available in a variety of lengths from 0.8-100 meters

Product Views



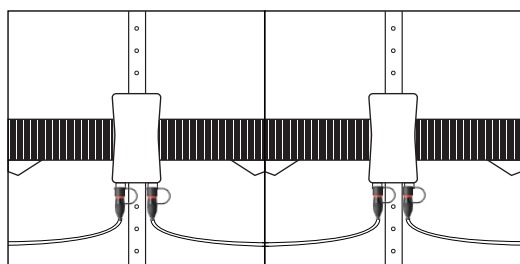
* 0.8-1.2 meters: 1µm; 5-100 meters: 50µm

Product Specifications

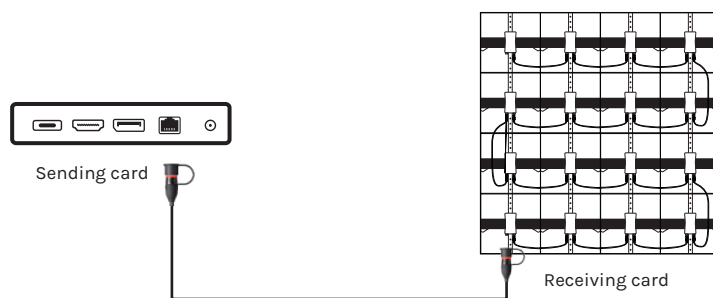
Name	Specification
Model	W100-xxM-B
Connector Type	RJ45 UTP
Cable Type	CAT6 UTP
Environmental Information	RoHS 2.0 Compliant
Connector Size	65(±0.5) * ϕ 27.7mm
RJ45 Connector	RJ45-BRL Waterproof connector
Structure	Conductor + Insulating inner sheath + Dual-layer jacket
Conductor Gauge	24AWG
Conductor Size	7/0.20±0.008mm *8
Conductor Material	Multi-strand oxygen-free copper
Insulation Material	HDPE
Insulation Outer Diameter	0.95-0.97mm
Insulation Average Thickness	0.17mm
Insulation Minimum Thickness	0.15mm
Insulation Color Code	1P: Bule & White/Blue; 2P: Orange & White/Orange; 3P: Green & White/Green; 4P: Brown & White/Brown
Core Wire Direction	s
Core Wire Lay Length	<30mm
Cable Direction	s
Velcro Strap	≤120mm
Conductor Resistance	3 OHMS MAX
Insulation Resistance	10M OHMS MIN, DC 300V 0.01sec.
Withstand Voltage	DC 300V 0.1sec.
Delay Difference	≤45ns
Frequency	250Mhz
Impedance	100Ω±15
Testing	PASS FLUKE
Insulation Elongation	≥300%

Name	Specification
Insulation Tensile	≥ 16 Mpa
Jacket Outer Diameter	6.6 ± 0.2 mm
Outer Jacket Material	Composite material
Jacket Elongation	$\geq 100\%$
Jacket Tensile	≥ 12.5 Mpa
Operating Temperature	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Operating Voltage	30V

Application Diagram



Application Scenario ①: Connection between LED panels



Application Scenario ②: Long-distance transmission between sending and receiving cards

Product Size



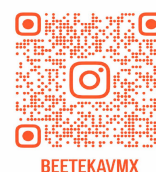
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Jacket Outer Diameter: 6.6 ± 0.2 mm

RJ45 Connector: RJ45-BRL Waterproof connector



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