W101–xxM

CAT6 UTP Network Cable
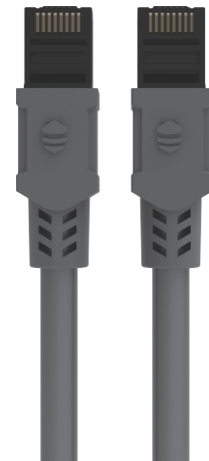（Fluorescent gray color）

Product number:6.01

Summary

W101-xxM is a CAT6 UTP network cable designed by Beetek specifically for LED rental screen applications. The thick cable body is made of 8-core 24AWG multi-strand oxygen-free copper and has a dual-layer outer jacket for added durability. Instead of the normal 1μ gold plating, Beetek uses 50μ gold-plated contact pins, along with unbreakable retaining latches to support repeated plugging and unplugging. The product is mainly suitable for interconnecting LED panels, LED transmitter-receiver card connections and connections between HDBaseT extenders. The W101 series is available in lengths from 0.8 to 100 meters.

Product view

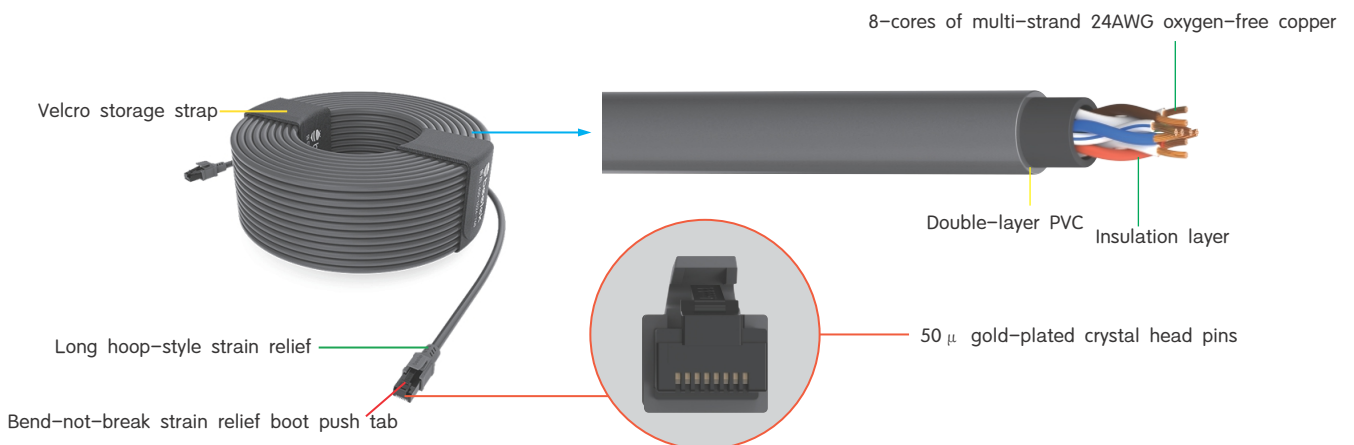Front of cable connector

Back of cable connector

Cable connector side

Technical Characteristics

✦ CAT6 UTP network cable designed for LED rental panel applications.

✦ Ethernet to Ethernet unshielded CAT6 network cable with 8 copper cores.

✦ The transmission frequency is 250MHz and the transmission rate is 10Gbps.

✦ 8-cores of multi-strand 24AWG oxygen-free copper with a dual-layer thick outer jacket for supreme durability.

✦ 50μ gold-plated crystal head pins and injection-molded shell support more than 1,000 times of repeated plugging and unplugging.

✦ Unbreakable retaining latch design for unsurpassed service life.

✦ Available in a variety of lengths up to 100 meters and come equipped with sturdy Velcro straps for easy cable management.

✦ The 0.8 - 3 meter lengths are suitable for interconnection of LED screens.

✦ Longer lengths are suitable for connecting LED transmitter card and receiver cards, along with HDBaseT extenders, and other applications.

✦ 20 meter lengths and longer can be wound on Beetek's DF and PCD series cable reels for easy deployment.

Product Details
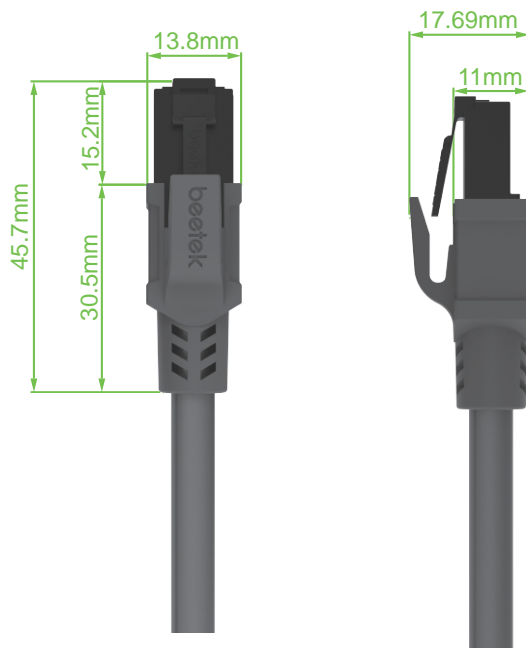

Velcro storage strap

8-cores of multi-strand 24AWG oxygen-free copper

Double-layer PVC   Insulation layer

Long hoop-style strain relief

50μ gold-plated crystal head pins

Bend-not-break strain relief boot push tab

Product parameter

Name	Parameter
Connector Type	RJ45 UTP
Cable Type	CAT6 UTP
Environmental Information	RoHS 2.0 Compliant
Components	Cable ＋RJ45 Connector ＋Boot
RJ45 Connector	One-piece single-row crystal head (nylon)
Connector Color	Black
Gold Plate Thickness	50U
Latch Tab	Unbreakable Latch Tab
Boot	50P Molded PVC
Structure	Conductor + Insulation layer + Jacket
Conductor Gauge	24AWG
Conductor Size	7/0.20±0.008mm *8
Conductor Material	Multiple strand oxygen free copper cable
Insulation Material	HDPE
Insulation Outer Diameter	0.98±0.05mm
Insulation Average Thickness	0.16mm
Insulation Minimum Thickness	0.14mm
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
Cable Lay Length	≦120mm
Outer Jacket Material	Double-layer PVC
Jacket Outer Diameter	6.5±0.20mm
Jacket Average Thickness	0.8mm
Jacket Minimum Thickness	0.7mm
Cable Color	Fluorescent gray
Cable Meter Mark	Yellow water proof
Storage Velcro	P type storage Velcro: 20*200mm for 10m or longer
Custom Label	10m or longer: heat shrinkable tubes at each end for custom labels
Conductor Resistance	≤9.42Ω/100M at 20℃
Insulation Resistance	Min.5000mega ohms-km at 20℃
Withstand Voltage	1000V DC/1min;No Breakdown
Delay Difference	≤45ns
Frequency	250Mhz
Impedance	100Ω±15
Testing	PASS FLUKE
Insulation Elongation	≥300%
Insulation Tensile	≥16 Mpa

Name	Parameter
Jacket Elongation	≥100%
Jacket Tensile	≥12.5 Mpa
Operating Temperature	-20~60℃
Operating Voltage	30V

Dimensional drawing

- Size　　　　　　　　　45.7*17.7*13.8mm
- Conductor Size　　　　7/0.20±0.008mm*8
- Jacket Outer Diameter　6.5±0.20mm
- RJ45 Connector　　　　One-piece single-row crystal head (nylon)

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