



CAT6a S/FTP Network Cable(RJ45-BRL Connector)

Product number: 990506

Product Overview

The W400-xxM-B is a CAT6a S/FTP network cable designed for mixers and DMX lighting applications. The cable body is made of single-strand 8-core 23AWG oxygen-free copper and a TPE material jacket, allowing high flexibility and durability. This product features a aluminum foil shielded twisted pairs along with a 100% coverage aluminum-magnesium braid, delivering excellent shielding performance. The 50µm gold-plated low-latency RJ45 plug and RJ45-BRL waterproof connectors allow for repeated plugging and unplugging. Suitable for connections to mixers, DMX lighting, HDBaseT extenders and LED systems. Available in various lengths between 5 and 100 meters.



Product Features

- CAT6a S/FTP off-the-shelf network cable designed for mixers and DMX lighting applications.
- RJ45 plug to RJ45 plug dual-shield CAT6a network cable with 8 copper cores.
- The transmission frequency is 500MHz and the transmission rate is 10Gbps.
- Single-strand 8-core 23AWG oxygen-free copper.
- Aluminum foil pair shielded and aluminum-magnesium braid with a 100% shielding rate.
- TPE material jacket increases cable flexibility, tensile strength and durability.
- The RJ45-BRL waterproof connectors and 50µm gold-plated, low-latency RJ45 plug support more than 1,000 plugging and unplugging.
- Available in lengths from 5 meters to 100 meters.
- Suitable for mixer, DMX lighting, HDBaseT, LED system and other applications.
- 20 meter lengths and longer can be wound on Beetek' s DF and PCD series cable reels for easy deployment.

Product Views

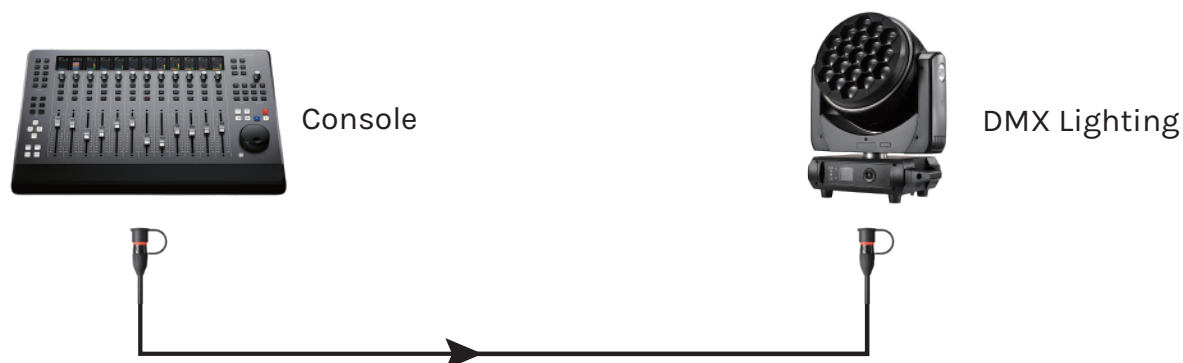


Product Specifications

Name	Specifications
Connector Type	RJ45 S/FTP
Cable Type	CAT6a S/FTP
Environmental Information	RoHS 2.0 Compliant
Connector Size	67(±0.5)*φ27.7mm
RJ45 Connector	RJ45-BRL waterproof connector
Gold Plate Thickness	50µm
Structure	Conductor + Insulation + Aluminum Foil + Ground Wire + Braid + TPE Jacket
Conductor Gauge	23AWG
Conductor Size	0.26 ± 0.008mm*8
Conductor Material	Single-strand oxygen-free copper
Insulation Material	Foam-skin PE
Insulation Outer Diameter	0.85±0.05mm
Insulation Average Thickness	0.17mm
Insulation Minimum Thickness	0.15mm
Insulation Color Code	1P: Blue & White/Blue; 2P: Orange & White/Orange; 3P: Green & White/Green; 4P: Brown & White/Brown
Core Wire Direction	S

Name	Specifications
Core Wire Lay Length	<30mm
Cable Direction	s
Cable Lay Length	≤ 120 mm
Aluminum Foil	Aluminum foil pair shielded
Ground Wire	7*0.16mm Multi-strand oxygen-free copper(26AWG)
Braid Material	128*0.12mm aluminum-magnesium braid shield
Shielding Rate	100%
Jacket Material	TPE
Jacket Outer Diameter	8.0 $\pm$ 0.20mm
Jacket Color	Black
Conductor Resistance	< 68.4 Ω /km at 20°C
Insulation Resistance	> 5000M Ω at 20°C
Impedance	100 Ω $\pm$ 15 Ω
Withstand Voltage	1000V DC/1min; No Breakdown
Delay Difference	<30ns/100m(1-125MHz)
Frequency	500Mhz
Testing	PASS FLUKE
Insulation Elongation	$\geq 300\%$
Insulation Tensile	≥ 16 Mpa
Jacket Elongation	$\geq 100\%$
Jacket Tensile	≥ 12.5 Mpa
Maximum Relative Mutual Coupling Capacitance	5.6 nF/100m
Maximum Capacitance Unbalance	330pF/100m
Allowable Bending Radius	10D(*D is cable outer diameter)
Operating Temperature	-20°C ~ 80°C
Operating Voltage	60V

Application Diagram



Application Scenario: Long-distance transmission between the console and DMX lighting

Product Size



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Connector Size: 67(± 0.5)* $\phi 27.7$ mm

Conductor Size: 0.26 ± 0.008 mm*8

Jacket Outer Diameter: 8.0 ± 0.20 mm

RJ45 Connector: RJ45-BRL waterproof connector



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