



CAT6a S/FTP Network Cable (Low-latency RJ45 Plug)

Product number: 990505

Product Overview

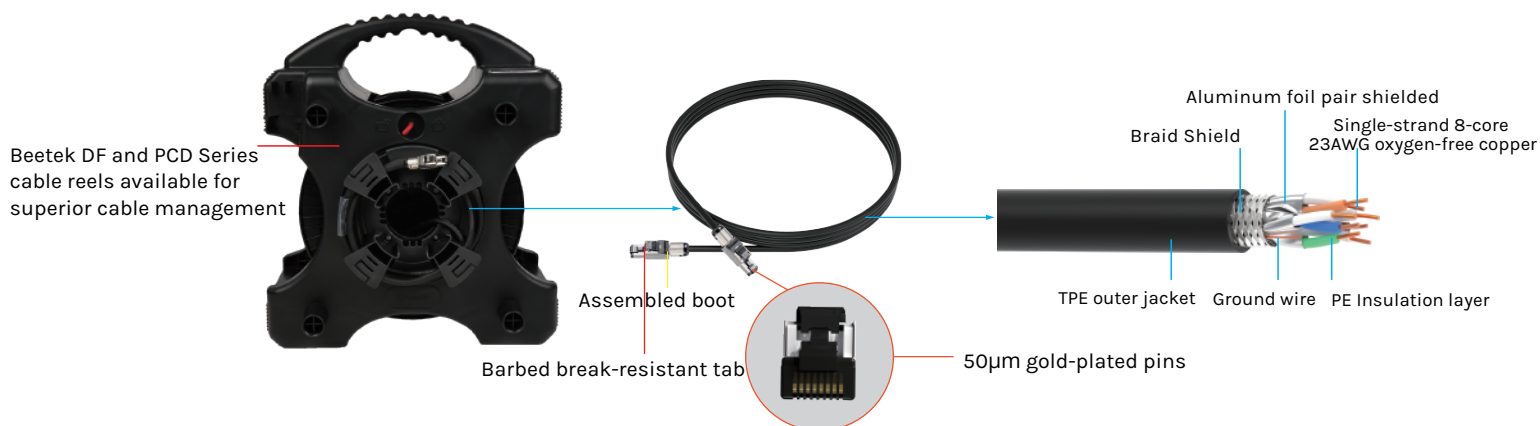
The W400-xxM-A is a CAT6a S/FTP network cable designed for mixers and DMX lighting applications. The cable body is made of single-strand 8-core 23AWG oxygen-free copper and a TPE material jacket, allowing high flexibility and durability. The product uses twisted aluminum foil shielding and aluminum-magnesium braided shielding with a 100% shielding rate, for superior shielding performance. The 50 µm gold-plated low-latency RJ45 plug allows for repeated plugging and unplugging. Single-piece coupling with quick coupling plate allows for quick repairs in the field without the use of special tools. 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.
- Dual-shield 8-core CAT6a network cable.
- The transmission frequency is 500MHz and the transmission rate is 10Gbps.
- Single-strand 8-core 23AWG oxygen-free copper.
- Stranded and braided shielding offer 100% shielding rate.
- TPE material jacket increases cable flexibility, tensile strength and durability.
- The 50µm gold-plated, low-latency RJ45 plug supports more than 1,000 plugging and unplugging.
- The one-piece connector with quick coupling plate can be quickly repaired without professional tools.
- 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

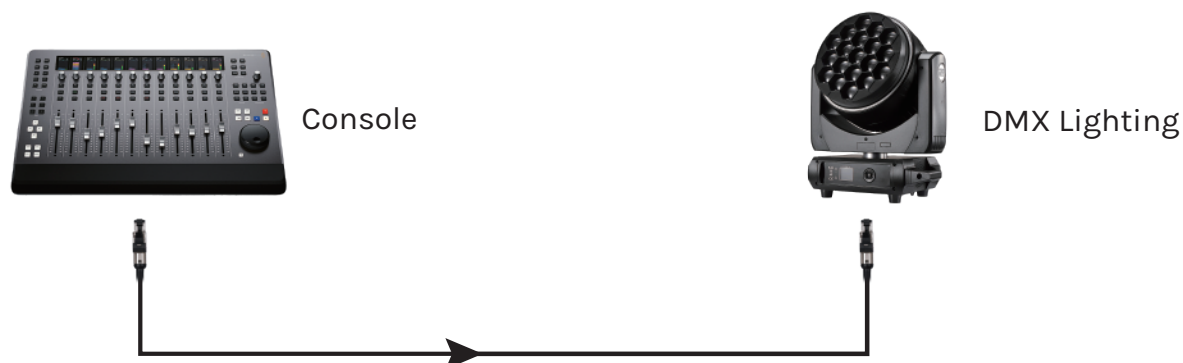


Product Specifications

Name	Specifications
Connector Type	RJ45 S/FTP
Cable Type	CAT6a S/FTP
Environmental Information	RoHS 2.0 Compliant
Size	56.4*13.8*18 mm
RJ45 Connector	Low-latency RJ45 plug (with built-in quick-connect circuit board)
Gold Plate Thickness	50µm
Latch Tab	Integrated break-resistant tab
Structure	Conductor + Insulation + Aluminum Foil + Ground Wire + Braid + TPE Jacket
Conductor Gauge	23AWG
Conductor Size	0.26 ± 0.008mm*8
Insulation Material	Single-strand oxygen-free copper
Conductor Material	Foam-skin PE
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

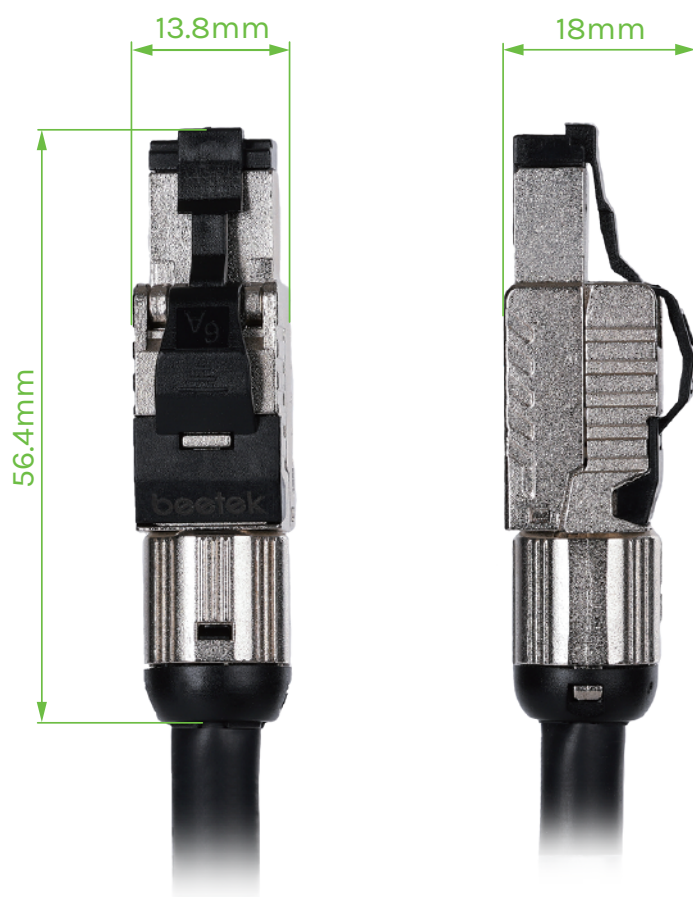
Name	Specifications
Cable Lay Length	≤ 120 mm
Aluminum Foil	Aluminum foil pair shielded
Ground Wire	7*0.16mm Multi-strand oxygen-free copper(26AWG)
Braid Material	128*0.12mm aluminum-magnesium braid shield
Shielding Rate	100%
Jacket Material	TPE
Jacket Outer Diameter	8.0 $\pm$ 0.20mm
Jacket Color	Black
Conductor Resistance	< 68.4 Ω /km at 20 $^{\circ}$ C
Insulation Resistance	> 5000M Ω at 20 $^{\circ}$ 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 $^{\circ}$ C ~ 80 $^{\circ}$ C
Operating Voltage	60V

Application Diagram



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

Product Size



CAT6a S/FTP Network Cable (Low-latency RJ45 plug)

Connector Size: 56.4*13.8*18mm

Conductor Size: $0.26 \pm 0.008\text{mm} \times 8$

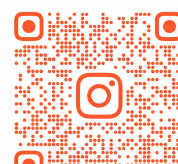
Jacket Outer Diameter: $8.0 \pm 0.20\text{mm}$

RJ45 Connector: Low-latency RJ45 plug

(with built-in quick-connect circuit board)



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