



W400-xxM-A

**CAT6a S/FTP Network Cable
(Low-latency crystal head)**

Product number:6.05

Summary

W400-xxM-A is a CAT6a SFTP network cable designed for mixing consoles 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 μ gold-plated low-latency crystal head supports repeated plugging and unplugging. And the single-piece connector with internal quick-connect circuit board can be quickly repaired on site without professional tools. It is suitable for connections to mixers, IDMX lighting, HDBaseT extenders and LED systems. and available in various lengths from 5 to 100 meters

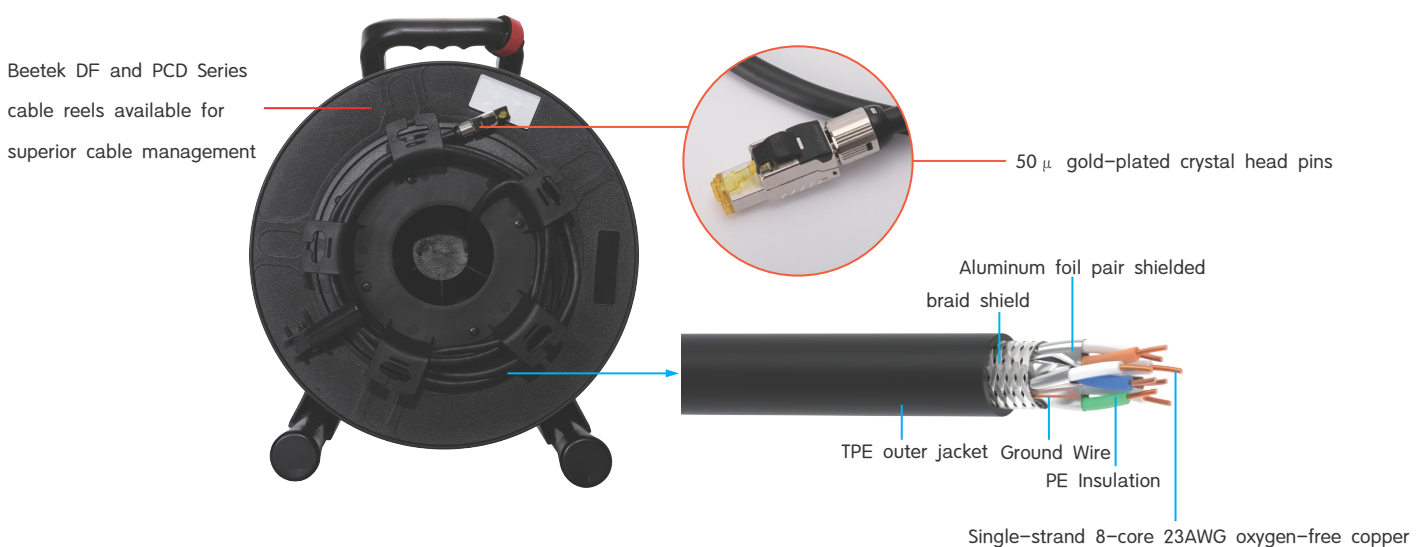
Product view



Technical Characteristics

- ✦ CAT6a SFTP 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 50 μ gold-plated, low-latency crystal head supports more than 1,000 plugging and unplugging.
- ✦ The Single-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, IDMX lighting, HDBeast, LED system and other applications.
- ✦ 20 meters and above in length and longer can be wound on Beetek' s DF and PCD series cable reels for easy deployment.

Product Details



Product parameter

Name	Parameter
Connector Type	RJ45 S/FTP
Cable Type	CAT6a SFTP
Environmental Information	RoHS 2.0 Compliant
Size	56.4 * 17.4 * 13.8 mm
RJ45 Connector	Low-latency crystal head (with built-in quick-connect circuit board)
Gold Plate Thickness	50U
Latch Tab	Integrated break-resistant tab
Structure	Conductor + Insulation + Aluminum Foil + Ground Wire + Braid + Jacket
Conductor Gauge	23AWG
Conductor Size	$0.26 \pm 0.008\text{mm} \times 8$
Conductor Material	Single strand oxygen free copper
Insulation Material	Foam-skin PE
Insulation Color Code	1P: Blue & 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	$\leq 120\text{mm}$
Aluminum Foil	Aluminum foil pair shielded
Ground Wire	7 x 0.16mm Multi-strand oxygen free copper (26AWG)
Braid Material	128 x 0.12mm tinned copper braid shield
Shielding Rate	100%
Jacket Material	TPE
Jacket Outer Diameter	$8.0 \pm 0.20\text{mm}$
Jacket Color	Black
Conductor Resistance	$< 68.4 \Omega / \text{km}$ at 20 °C
Insulation Resistance	$> 5000\text{M} \Omega$ at 20 °C
Impedance	$100 \Omega \pm 15 \Omega$
Withstand Voltage	1000V DC/1min; No Breakdown
Delay Difference	$\leq 30\text{ns}/100\text{m}$ (1-125MHz)
Frequency	500Mhz
Testing	PASS FLUKE
Insulation Elongation	$\geq 300\%$
Insulation Tensile	$\geq 16 \text{ Mpa}$
Jacket Elongation	$\geq 100\%$
Jacket Tensile	$\geq 12.5 \text{ Mpa}$
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	-20~80 °C
Operating Voltage	60V

Dimensional drawing



- Size 56.4 * 17.4 * 13.8 mm
- Conductor Size $0.26 \pm 0.008\text{mm} * 8$
- Jacket Outer Diameter $8.0 \pm 0.20\text{mm}$
- RJ45 Connector CAT6a S/FTP Network Cable (Low-latency crystal head)