

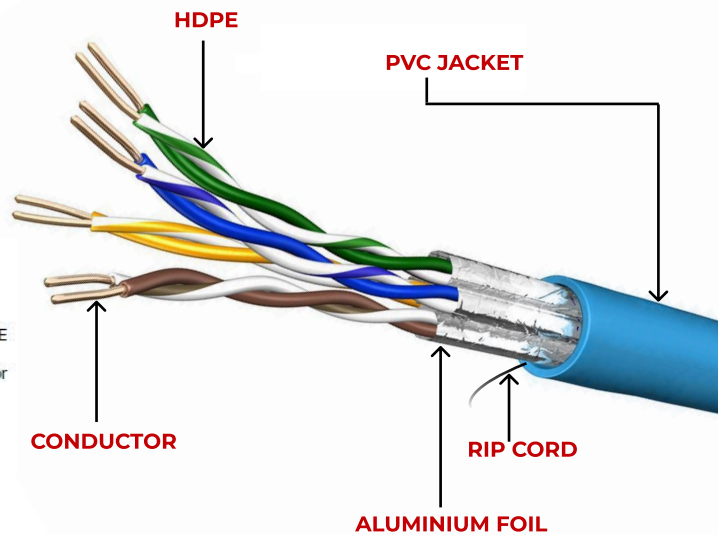
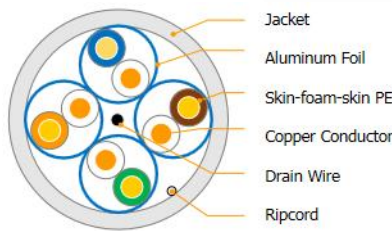


### CAT6A 10G ULTRA SERIES - FTP SERIES

**PART NO.:** CAT6A10G680

**DESCRIPTION:** CAT6A 23AWG CABLE, SHIELDED CABLE, LSZH/PVC

KAYBE CAT6A 10G Ultra Series - FTP cable is designed for 10 Gigabit Ethernet, providing up to 650 MHz bandwidth with enhanced shielding to reduce interference. Its foil shielding ensures stable, high-speed connections even in high-demand environments. Perfect for data centers and enterprise networks, it guarantees reliable performance.



### HIGH FREQUENCY ELECTRICAL PARAMETERS

FREQ (MHz)	INS LOSS (dB/100m) Max.	NEXT Pair to Pair (dB/100m) Min.	NEXT Power Sum (dB/100m) Min.	ELFEXT Pair to Pair (dB/100m) Min.	ELFEXT Power Sum (dB/100m) Min.	Return Loss (dB/100m)
1	2.3	74.3	72.3	67.8	64.8	20.0
4	3.8	65.3	63.3	55.8	52.8	23.0
8	5.3	60.8	58.8	49.7	46.7	24.5
10	5.9	59.3	57.3	47.8	44.8	25.0
16	7.5	56.0	54.0	43.7	40.7	25.0
20	8.4	54.0	52.0	41.8	38.8	25.0
25	9.4	53.3	51.3	39.8	36.8	24.3
31.25	10.5	51.9	49.9	37.9	34.9	23.6
62.5	15.0	47.4	45.4	31.9	28.9	21.5
100	19.1	44.3	42.3	27.8	24.8	20.1
250	31.1	38.3	36.3	19.8	18.8	17.3
300	34.3	37.1	35.1	18.3	16.8	17.3
400	40.1	35.3	33.3	15.8	15.3	17.3
500	45.3	33.8	31.8	13.8	12.8	17.3

## CONSTRUCTION DATA SHEET

CONDUCTOR	
Description	CAT6A 23 AWG X 4 Pairs Solid Conductor
Conductor Material	Solid Bare Copper
No. Of Strands	1 Nos
Conductor (mm)	0.57 ± 0.015 mm
INSULATION	
Insulation Material	Skin-foam-skin PE
Insulation Thickness	0.25MM
Insulation Diameter	1.37 ± 0.10 mm
PAIR TWISTING	
Pair - 1	Blue + White-Blue
Pair - 2	Orange + White-Orange
Pair - 3	Green + White-Green
Pair - 4	Brown + White-Brown
LAYING STAGE	
4 Pair Laid Up	All of the 4pair twisted together and Shielded
RIP Cord	Yes, 210D
SHIELDING	
Polyester Tape	100% Coverage
Al-Mylar Tape	100% Coverage
Drain Wire	1/0.400± 0.008 ATC
OUTER JACKET	
Material	PVC, LSZH, UVPE (As per request)
Thickness (mm)	0.60 mm (Nominal)
Diameter (mm)	7.90 ± 0.10 mm
Colour	Blue, Light Grey, Black (As per request)

## ELECTRICAL PARAMETERS

Conductor Resistance (20°C)	≤9.0Ω/100m
Electrical Resistance Unbalance (20°C)	≤2.0%
Insulation Resistance	>5000 MΩ.km
Pair to Ground Capacitance Unbalance (0.8 kHz or 1kHz)	≤160 pF/100m
Nominal Velocity of Propagation (NVP)	69 %
Skew	45 ns/100m
Operating Frequency, maximum	500 MHz

## ENVIRONMENTAL REQUIREMENTS

Operating Temperature, range	-20°C to +60°C
Storage Temperature, range	-10°C to +50°C
Installation Temperature, range	-5°C to +40°C
Flame retardant	IEC 60332-1
All Materials Comply with 2011/65/EU (ROHS 2.0)	

## ORDERING INFORMATION AS PER FOLLOWS

MATERIAL CODE	DESCRIPTION	PACKAGING
CAT6A10G680	CAT6A 10G SERIES U/FTP CABLE, LSZH/PVC	305 meter/500 meter drum

## COMPATIBLE KAYBE PRODUCTS

CAT 6A STP - Tool less Keystone Jack	CAT 6A STP - RJ45 Connectors 50u	CAT 6A SFTP Patch Cords	CAT 6A Patch Panel - STP 24port & 48port
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