



KRAMER ELECTRONICS LTD.

CABLES



BC-UNIKAT

CAT6A U/FTP Video & LAN Cable — Low Smoke & Halogen Free

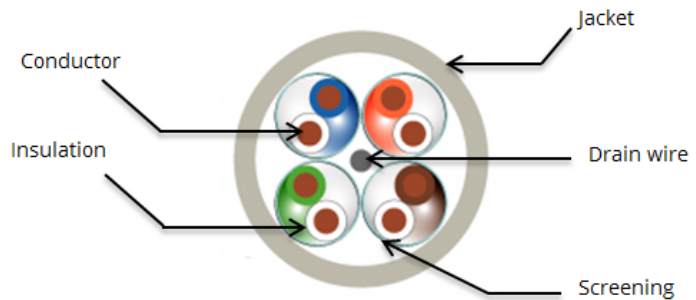
The Kramer BC-UNIKAT cable is a unified CAT6a cable that handles all Pro AV and IT signals. Over four individually screened twisted pairs, this U/FTP CAT6a cable runs Kramer's DGKat™ technology, 4K UHD HDBaseT™ technology or LAN applications and ensures optimal signal performance.



FEATURES

- **Quality Construction** - 4 shielded twisted pairs (U/FTP) of 23AWG solid copper conductors are cabled together in an unshielded outer jacket.
- **Optimized for Kramer Hardware** - Use with any of Kramer's wide range of twisted pair digital transmitter-receiver sets (DGKat™ and HDBaseT). Terminate with shielded RJ-45 connectors.
- **HDBaseT tested, certified and recommended** - www.hdbaset.org/hdbaset-recommended-cables
- **RJ-45 Connector** - The larger diameter 23AWG twisted pair cable requires a special RJ-45 connector. Use the Kramer CON-RJ45-3.
- **Length** - Available in reel boxes of 100m (328ft) & wooden drums of 305/500m (1000/1640ft).

SPECIFICATIONS



Design and Material

Conductors

Construction:	4x2x23AWG
Conductors:	23AWG, Annealed copper
Outer diameter:	0.56± 0.01mm

Insulation

Material:	Skin/Foam/Skin HDPE
Outer diameter:	1.33 ± 0.10mm
Color:	Per TIA/EIA 568-B

Screening

Material:	Alu/PET per pair (Alu side out)
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Drain wire

Material:	Tinned copper
Outer diameter:	0.4 ± 0.01 mm

Jacket

Material:	LSHF
Color:	Blue RAL5012 (standard)
Thickness:	≥0.5mm
Diameter:	7.2 ± 0.2mm

Electrical Characteristics

Impedance	1-100MHz : 100 ± 15Ω
	100-250MHz : 100 ± 20Ω
	250-500MHz : 100 ± 50Ω

Propagation velocity	76%
Mutual pair capacitance	≤42 pF/m
Capacitance unbalanced (pair to ground)	≤1500 pF/km
Skew delay/100m	10 ns max.
Max. conductor DC resistance	< 79.8 Ω /km
Resistance unbalanced (within pairs)	<1.5%
Dielectric strength	2.5 kV DC (2s)
Insulation resistance	>5000 MΩ/km
Voltage rating	30V

Performance

Frequency (MHz)	Insertion Loss (dB/100M)	PSNEXT (dB)	NEXT (dB)	RL (dB)	PSELFEXT (dB)	ELFEXT (dB)
1	2.1	72.3	75.3	20.0	65.0	68.0
4	3.8	63.3	66.3	23.0	53.0	56.0
10	5.9	57.3	60.3	25.0	45.0	48.0
16	7.5	54.2	57.2	25.0	40.9	43.9
31.25	10.5	49.9	52.9	23.6	35.1	38.1
62.5	15.0	45.4	48.4	21.5	29.1	32.1
100	19.1	42.3	45.3	20.1	25.0	28.0
250	31.8	36.3	39.3	17.3	27.0	20.0
500	45.3	31.8	34.8	17.3	11.0	14.0
650	52.3	30.1	31.1	17.3	8.7	11.7

Thermal characteristics

Storage / Transport / Installation	0-50°C
Operation	-20-60°C

Mechanical characteristics

Maximum pulling tension	100 N
Bending radius (during installation)	60mm
Bending radius (installed)	50mm

Applicable Standards

Electrical	EIA/TIA 568A ISO/IEC 11801
Fire performance	IEC 60332-1
Smoke density	IEC 61034
Halogen free	IEC 60754



Ordering information

Model	Description	Length
BC-UNIKAT/LSHF-100M	23 AWG U/FTP CAT6A Bulk Cable Optimized for Kramer's DGKat™, HDBaseT and LAN applications (Blue)	328ft/100m
BC- UNIKAT/LSHF-305M	23 AWG U/FTP CAT6A Bulk Cable Optimized for Kramer's DGKat™, HDBaseT and LAN applications (Blue)	1000ft/305m
BC- UNIKAT/LSHF-500M	23 AWG U/FTP CAT6A Bulk Cable Optimized for Kramer's DGKat™, HDBaseT and LAN applications (Blue)	1640ft/500m
BC-UNIKAT/LSHF/BK-305M	23 AWG U/FTP CAT6A Bulk Cable Optimized for Kramer's DGKat™, HDBaseT and LAN applications (Black)	1000ft/305m
BC-UNIKAT/LSHF/PR-305M	23 AWG U/FTP CAT6A Bulk Cable Optimized for Kramer's DGKat™, HDBaseT and LAN applications (Purple)	1000ft/305m