



KRAMER ELECTRONICS LTD.

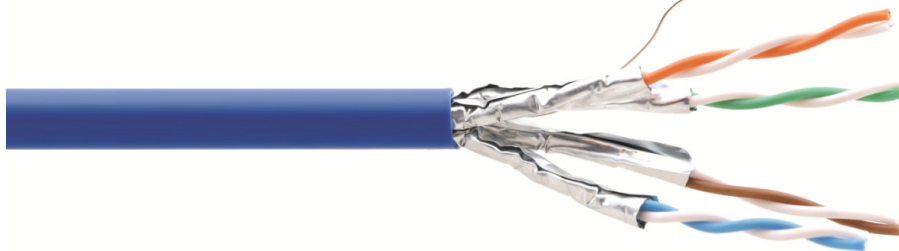
## CABLES



### 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.



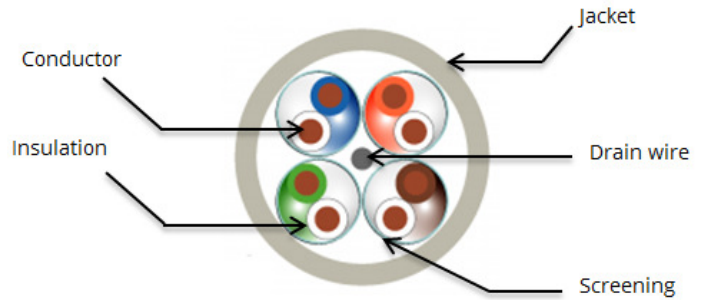
### FEATURES

- **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](http://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).

## APPLICATIONS

- Structure cabling for horizontal and building backbone cable.
- IT, LAN, HDBaseT and Ethernet installations
- Ideal for 10GbE and legacy speeds applications.
- IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt

## SPECIFICATIONS



### Design and Material

#### Conductors

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

#### Insulation

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

#### Screening

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

#### Drain wire

Material: Tinned copper  
Outer diameter: 0.4 ± 0.01 mm

#### Jacket

Material: LSHF  
Color: Available colors: blue, purple and black  
Thickness: ≥0.5 mm  
Diameter: 7.2 ± 0.2 mm

### Electrical Characteristics

#### Impedance

1-100MHz : 100 ± 15Ω  
100-250MHz : 100 ± 20Ω  
250-500MHz : 100 ± 25Ω

#### 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 unbalance (within pairs)	<1.5%
Dielectric strength	2.5 kV DC (2s)
Insulation resistance	>5000 MΩ/km
Voltage rating	60V

## Performance

Frequency (MHz)	Insertion Loss (dB/100M)	PSNEXT (dB)	NEXT (dB)	RL (dB)	PSELFEXT (dB)	ELFEXT (dB)
<b>1</b>	2.1	72.3	75.3	20.0	65.0	68.0
<b>4</b>	3.8	63.3	66.3	23.0	53.0	56.0
<b>10</b>	5.9	57.3	60.3	25.0	45.0	48.0
<b>16</b>	7.5	54.2	57.2	25.0	40.9	43.9
<b>31.25</b>	10.5	49.9	52.9	23.6	35.1	38.1
<b>62.5</b>	15.0	45.4	48.4	21.5	29.1	32.1
<b>100</b>	19.1	42.3	45.3	20.1	25.0	28.0
<b>250</b>	31.8	36.3	39.3	17.3	27.0	20.0
<b>500</b>	45.3	31.8	34.8	17.3	11.0	14.0
<b>650</b>	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	Length	Color	Reaction to Fire Classification
BC-UNIKAT/LSHF-100M	328ft/100m	Blue	Dca-s2,d1,a1
BC- UNIKAT/LSHF-305M	1000ft/305m	Blue	Dca-s2,d1,a1
BC-UNIKAT/B2ca-305M	1000ft/305m	Black	B2ca-s1,d1,a1
BC-UNIKAT/LSHF/BK-305M	1000ft/305m	Black	Dca-s2,d1,a1
BC-UNIKAT/LSHF/PR-305M	1000ft/305m	Purple	Dca-s2,d1,a1
BC- UNIKAT/LSHF-500M	1640ft/500m	Blue	Dca-s2,d1,a1