



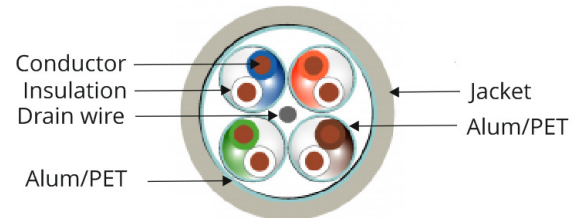
KRAMER ELECTRONICS LTD.

CABLES



BC6A-LS40

KLAN CAT6A F/FTP 2x4x23AWG 650MHz LSZH Bulk Cable



Kramer's BC6A-LS40 is a high performance CAT6A F/FTP cable designed for IT, LAN and Ethernet installations. Constructed with 23AWG solid bare copper conductors where each pair is individually shielded with metal foil screen and the entire cable is wrapped with extra aluminum foil in a LSZH jacket with sequential markings every meter and packed on a fumigated plywood reel make this cable exceed CAT6A specifications to provide additional performance and bandwidth over the basic standard

Product Description

CAT6A F/FTP, 23AWG solid bare copper, LSZH

Each pair is twisted with metal foil screen

Overall metal foil shield

Product Features

High performance of transmission.

Sweep frequency up to 650 MHz.

Applications

Structure cabling for horizontal and building backbone cable.

Designed for IT, LAN and Ethernet installations.

IEEE 802.3an 10GBASE-T and legacy speeds.

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:	Blue/White Brown/White Orange/White Green/White

Screening per pair

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

Material:	90% Tinned copper
Outer diameter:	0.4 ± 0.01 mm

Screening-overall

Material	Alu/PET
Coverage	≥ 115%

Jacket

Material:	LSHF
Color:	Yellow RAL1018
Thickness:	≥0.4mm
Diameter:	7.4 ± 0.2mm

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/ground

≤1500 pF/km

Max. conductor DC resistance

< 79.8 Ω /km

Pair resistance unbalance DC

<1.5%

Dielectric strength

2.5 kV DC (2s)

Insulation resistance

>5000 MΩ/km

Voltage rating

30V

Performances

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 (installation)	60mm
Bending radius (installed)	50mm

Standards

Electrical	EIA/TIA 568A ISO/IEC 11801
Fire performance:	IEC 60332-1
Smoke density:	IEC 61034
Halogen free:	IEC 60754
RoHS	European directive 201 1 /65/EU

Ordering information

Model	Description	Length	
BC6A-LS403-D305M	KLAN CAT6A F/FTP 23AWG 650MHz LSZH ,Yellow Bulk Cable -Drum	1000ft	305m
BC6A-LS403-D500M	KLAN CAT6A F/FTP 23AWG 650MHz LSZH ,Yellow Bulk Cable -Drum	1640ft	500m