BCLS-31

CAT 6A U/UTP 23AWG 650MHz Bulk Cable
– Low Smoke & Halogen Free

Kramer's BCLS–31 is a high–performance CAT6A U/UTP cable designed for IT, LAN and Ethernet installations. It is constructed with four pairs of 23AWG solid bare copper conductors with a cross filler in an LSZH jacket with internal rip cord and sequential markings every meter and packed on a fumigated plywood reel. The unique zigzag jacket design provides excellent performance of "six around one" bundle transmission. BCLS–31 cable exceeds CAT 6A specifications to provide additional performance and bandwidth beyond the basic standard

FEATURES

- High-Performance Single Cable Transmission
- Zigzag Jacket Design - Provides excellent performance of six around one bundle transmission
- Round & Smooth Jacket without Twisted Stripe
- High-Quality Safety Properties
- Sweep Frequency up to 650MHz
- Length - Available in wooden drums of 500m (1640ft)

TECHNICAL SPECIFICATIONS

CONSTRUCTION	Conductor: 4 pairs of 23AWG solid bare copper
	Insulation: Polyolefin (PO); blue & white, orange & white, green & white, brown & white
	Twist: Left−hand
	Assembly: Left hand direction
	Rip Cord: Polyester multi−yarn
	Jacket: Low smoke zero halogen (LSZH), yellow (Pantone 116C)
Filler:	Polyolefin (PO)
DIAMETERS	Jacket: Diameter: 8.3 ±0.2mm; thickness: 1.10 ±0.01mm
	Insulation: Blue & white: 1.17 ± 0.02mm Orange & white: 1.12 ± 0.02mm Green & white: 1.15 ± 0.02mm Brown & white: 1.10 ± 0.02mm
ELECTRICAL	Temperature & Voltage Rating: 60°C @300V
	Spark Test: 2.5kV DC
	AC Leakage Current: ≤10mA (1.5kV AC) through overall jacket
	Conductor DC Resistance: ≤9.38Ω /100m
	Resistance Unbalance: ≤5%
	Dielectric Strength: 1.5kV AC for 2sec
	Insulation Resistance: ≥5000MΩ /m
	Mutual Capacitance: ≤5.6nF /100m
	Capacitance Unbalance: ≤330pF /100m pair−to−ground
	Characteristic Impedance: 100±15Ω @1~100MHz
	Coupling Attenuation: ≤55dB @30MHz, ≤41dB @500MHz
USAGE AND ENVIRONMENTAL	Cable Cold Bend: −20°C for 4hr
	Insulation Tensile Strength: 2400 PSI min. (1.69kg/m,2)
	NVP 67%
	Temperature Range: Storage & shipping: −20°C to 60°C; installation: 0°C to 60°C; operation: −20°C to 60°C
	Minimum Bending Radius: ≥4 times of overall diameter
	Maximum Pulling Tension: ≤110N
REGULATORY PERFORMANCE	ANSI/TIA-568-C.2 (2009): Balanced Twisted−Pair Telecommunications Cabling and Components Standards
	ISO/IEC 11801 (Edition 2.2): Information technology − Generic cabling for customer premises
	IEC 61156-5 (Edition 2.0): Multicore and symmetrical pair/quad cables for digital

	communications − Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1000 MHz − Horizontal floor wiring − Sectional specification
	EN 50288-6-1:2013: Multi−element metallic cables used in analogue and digital communication and control − Part 6−1: Sectional specification for unscreened cables characterized up to 250MHz − Horizontal and building backbone cables
REGULATORY SAFETY	EN 50173-1:2011: Information technology − Generic cabling systems − Part 1: General requirements
	IEC 60332-1-2: Tests on electric and optical fiber cables under fire conditions − Part 1−2: Test for vertical flame propagation for a single insulated wire or cable − Procedure for 1kW pre−mixed flame
	IEC 61034-1 / 61034-2: Measurement of smoke density of cables burning under defined conditions
	IEC 60754-2 Test on gases evolved during combustion of materials from cables
	EU Directive 2011/65/EC (RoHS 2)
	EU Directive 2006/95/EC (LVD)
	CE compliance date: 2010.01.01

CONFIGURATIONS

BCLS-31YL-5	CAT 6A U/UTP LSZH Cable - Yellow