



KRAMER

BCLS-33

CAT 6A F/UTP LSZH Bulk Cable



Kramer's BCLS-33 is a high-performance CAT 6A F/UTP cable designed for IT, LAN and Ethernet installations. It is constructed with 23AWG solid bare copper conductors with a cross filler and overall metal foil screen with a drain wire. It is enclosed in an LSZH jacket with sequential markings every meter and packed on a fumigated plywood reel. BCLS-33 cable exceeds CAT 6A specifications to provide additional performance and bandwidth beyond the basic standard

FEATURES

- High-Performance Transmission
- High-Quality Safety Properties
- Sweep Frequency up to 650MHz
- Length - Available in length of 500m (1640ft)



TECHNICAL SPECIFICATIONS

CONSTRUCTION	<p>Conductor: 4 pairs of 23AWG solid bare copper</p> <p>Insulation: Polyolefin (PO); blue & white/blue stripe, orange & white/orange stripe, green & white/green stripe, brown & white/brown stripe</p> <p>Twist: Left-hand</p> <p>Assembly: Left hand direction</p> <p>Rip Shield: Mylar tape</p> <p>Drain Wire: 24AWG solid tinned copper</p> <p>Shield: Al Mylar tape, 100% coverage and mylar side facing out</p> <p>Jacket: Low smoke zero halogen (LSZH), orange (Pantone 1485C)</p>
Filler:	Polyolefin (PO)
DIAMETERS	<p>Jacket: Diameter: $7.6 \pm 0.2\text{mm}$; thickness: $0.55 \pm 0.05\text{mm}$</p> <p>Insulation: Blue & white/blue stripe: $1.15 \pm 0.02\text{mm}$ Orange & white/orange stripe: $1.11 \pm 0.02\text{mm}$ Green & white/green stripe: $1.15 \pm 0.02\text{mm}$ Brown & white/brown stripe: $1.11 \pm 0.02\text{mm}$</p>
ELECTRICAL	<p>Temperature & Voltage Rating: $60^\circ\text{C} @300\text{V}$</p> <p>Spark Test: 2.5kV DC</p> <p>AC Leakage Current: $\leq 10\text{mA}$ (1.5kV AC) through overall jacket</p> <p>Conductor DC Resistance: $\leq 9.38\Omega /100\text{m}$</p> <p>Resistance Unbalance: $\leq 5\%$</p> <p>Dielectric Strength: 1.5kV AC for 2sec</p> <p>Insulation Resistance: $\geq 5000\text{M}\Omega /\text{m}$</p> <p>Mutual Capacitance: $\leq 5.6\text{nF} /100\text{m}$</p> <p>Capacitance Unbalance: $\leq 330\text{pF} /100\text{m}$ pair-to-ground</p> <p>Characteristic Impedance: $100 \pm 15\Omega @1\sim 100\text{MHz}$</p> <p>Coupling Attenuation: $\leq 55\text{dB} @30\text{MHz}$, $\leq 41\text{dB} @500\text{MHz}$</p>
USAGE AND ENVIRONMENTAL	<p>Cable Cold Bend: -20°C for 4hr</p> <p>Insulation Tensile Strength: 2400 PSI min. (1.69kg/m.sq)</p> <p>NVP 67%</p> <p>Temperature Range: Storage & shipping: -20°C to 60°C; installation: 0°C to 60°C; operation: -20°C to 60°C</p> <p>Minimum Bending Radius: ≥ 4 times of overall diameter</p> <p>Maximum Pulling Tension: $\leq 110\text{N}$</p>
REGULATORY PERFORMANCE	<p>ANSI/TIA-568-C.2 (2009): Balanced Twisted-Pair Telecommunications Cabling and Components Standards</p> <p>ISO/IEC 11801 (Edition 2.2): Information technology – Generic cabling for customer premises</p>

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

EN 50173-1:2011

Information technology. Generic cabling systems. General requirements

REGULATORY
SAFETY

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



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CONFIGURATIONS

BCLS-33OR-5

CAT 6A F/UTP LSZH Bulk Cable - Orange
