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## BCLS-33

CAT 6A F/UTP LSZH Bulk Cable

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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

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



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## TECHNICAL SPECIFICATIONS

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CONSTRUCTION	<p>Conductor: 4 pairs of 23AWG solid bare copper</p> <p>Insulation: Polyolefin (PO); blue &amp; white/blue stripe, orange &amp; white/orange stripe, green &amp; white/green stripe, brown &amp; 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: <math>7.6 \pm 0.2\text{mm}</math>; thickness: <math>0.55 \pm 0.05\text{mm}</math></p> <p>Insulation: Blue &amp; white/blue stripe: <math>1.15 \pm 0.02\text{mm}</math> Orange &amp; white/orange stripe: <math>1.11 \pm 0.02\text{mm}</math> Green &amp; white/green stripe: <math>1.15 \pm 0.02\text{mm}</math> Brown &amp; white/brown stripe: <math>1.11 \pm 0.02\text{mm}</math></p>
ELECTRICAL	<p>Temperature &amp; Voltage Rating: <math>60^{\circ}\text{C}</math> @300V</p> <p>Spark Test: 2.5kV DC</p> <p>AC Leakage Current: <math>\leq 10\text{mA}</math> (1.5kV AC) through overall jacket</p> <p>Conductor DC Resistance: <math>\leq 9.38\Omega</math> /100m</p> <p>Resistance Unbalance: <math>\leq 5\%</math></p> <p>Dielectric Strength: 1.5kV AC for 2sec</p> <p>Insulation Resistance: <math>\geq 5000\text{M}\Omega</math> /m</p> <p>Mutual Capacitance: <math>\leq 5.6\text{nF}</math> /100m</p> <p>Capacitance Unbalance: <math>\leq 330\text{pF}</math> /100m pair-to-ground</p> <p>Characteristic Impedance: <math>100 \pm 15\Omega</math> @1~100MHz</p> <p>Coupling Attenuation: <math>\leq 55\text{dB}</math> @30MHz, <math>\leq 41\text{dB}</math> @500MHz</p>
USAGE AND ENVIRONMENTAL	<p>Cable Cold Bend: <math>-20^{\circ}\text{C}</math> for 4hr</p> <p>Insulation Tensile Strength: 2400 PSI min. (1.69kg/m.sq)</p> <p>NVP 67%</p> <p>Temperature Range: Storage &amp; shipping: <math>-20^{\circ}\text{C}</math> to <math>60^{\circ}\text{C}</math>; installation: <math>0^{\circ}\text{C}</math> to <math>60^{\circ}\text{C}</math>; operation: <math>-20^{\circ}\text{C}</math> to <math>60^{\circ}\text{C}</math></p> <p>Minimum Bending Radius: <math>\geq 4</math> times of overall diameter</p> <p>Maximum Pulling Tension: <math>\leq 110\text{N}</math></p>
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 unshielded 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

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BCLS-33OR-5

CAT 6A F/UTP LSZH Bulk Cable - Orange

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