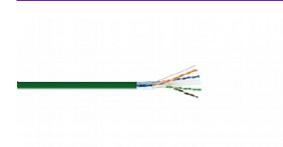


## **BCLS-23**

CAT 6 F/UTP 23AWG 400MHz Bulk Cable - Low Smoke & Halogen Free



Kramer's BCLS-23 is a high-performance CAT 6 F/UTP cable designed for IT, LAN and Ethernet installations. The cable 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-23 cable exceeds CAT 6 specifications to provide additional performance and bandwidth beyond the basic standard

## **FEATURES**

High-Performance Transmission
High-Quality Safety Properties
Sweep Frequency up to 400MHz
Length - Available in wooden drums of 500m (1640ft)



## TECHNICAL SPECIFICATIONS

CONSTRUCTION Conductor: 4 pairs of 23AWG solid bare copper

Insulation: Polyolefin (PO); blue & white/blue stripe, orange & white/orange stripe,

green & white/green stripe, brown & white/brown stripe

Twist: Left-hand

Assembly: Left hand direction

Rip Shield: Mylar tape

Drain Wire: 24AWG solid tinned copper

Shield: Al Mylar tape, 100% coverage and mylar side facing out

Jacket: Low smoke zero halogen (LSZH), green (Pantone 7732C)

Filler: Polyolefin (PO)

DIAMETERS Jacket: Diameter: 7.2 ±0.2mm; thickness: 0.45 ±0.05mm

> Insulation: Blue & white/blue stripe: 1.08 ± 0.02mm Orange & white/orange stripe: 1.05 ± 0.02mm Green & white/green stripe: 1.08 ± 0.02mm Brown & white/brown stripe: 1.05 ± 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, ≤47dB @250MHz

**USAGE AND ENVIRONMENTAL**  Cable Cold Bend: -20°C for 4hr

Insulation Tensile Strength: 2400 PSI min. (1.69kg/m^2)

**NVP 69%** 

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 ANSI/TIA-568-C.2 (2009): Balanced Twisted-Pair Telecommunications Cabling and

**PERFORMANCE** 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

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



## **CONFIGURATIONS**

BCLS-23GR-5 CAT 6 F/UTP LSZH Cable - Green