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/m²)
- **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 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

EN 50173-1:2011: Information technology. Generic cabling systems. 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-23GR-5 | CAT 6 F/UTP LSZH Cable - Green |