CS44Z1 Cable, category 6A, 4 pair, F/UTP, LSZH, 23 AWG, 1000 ft reel, black

Product Classification

Regional Availability
Asia | Australia/New Zealand | Latin America
Portfolio
NETCONNECT®
Product Type
Twisted pair cable
Product Series
640 Series

General Specifications

Product Number
640Z
ANSI/TIA Category
6A
Cable Component Type
Horizontal
Cable Type
F/UTP (shielded)
Conductor Type, singles
Solid
Conductors, quantity
8
Jacket Color
Black
Pairs, quantity
4
Transmission Standards
ANSI/TIA-568.2-D | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class EA

Dimensions

Cable Length
304.8 m | 1000 ft
Diameter Over Conductor
1.14 mm | 0.045 in
Diameter Over Jacket, nominal
7.188 mm | 0.283 in
Conductor Gauge, singles
23 AWG

Cross Section Drawing
Electrical Specifications

- **Characteristic Impedance**: 100 ohm
- **Characteristic Impedance Tolerance**: ±15 ohm
- **dc Resistance, maximum**: 6.66 ohms/100 m | 2.03 ohms/100 ft
- **Delay Skew, maximum**: 45 ns
- **Mutual Capacitance at Frequency**: 5.6 nF/100 m @ 500 MHz
- **Nominal Velocity of Propagation (NVP)**: 64%
- **Operating Voltage, maximum**: 80 V
- **Remote Powering**: Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A

Segregation Class: c

Material Specifications

- **Conductor Material**: Bare copper
- **Insulation Material**: Polyolefin
- **Jacket Material**: Low Smoke Zero Halogen (LSZH)
- **Shield (Tape) Material**: Aluminum/Polyester

Mechanical Specifications

- **Minimum Bend Radius, multiple Bends**: 28.8 mm | 1.134 in
Environmental Specifications

**Operating Temperature**  
-20 °C to +60 °C (-4 °F to +140 °F)

**Acid Gas Test Method**  
IEC 60754-2

**Flame Test Method**  
IEC 60332-1

**Smoke Test Method**  
IEC 61034-2

Packaging and Weights

**Cable weight**  
60.107 kg/km | 40.39 lb/kft

**Packaging Type**  
Reel

Regulatory Compliance/Certifications

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<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
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<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
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<tr>
<td>ROHS</td>
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