CS44Z1 Cable, category 6A, 4 pair, F/UTP, LSZH, 23 AWG, 500 m reel, gray

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
Gray

Pairs, quantity
4

Transmission Standards
- ANSI/TIA-568.2-D
- CENELEC EN 50288-6-1
- ISO/IEC 11801 Class EA

Dimensions

Cable Length
- 500 m
- 1,640.42 ft

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

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
Agency | Classification
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CHINA-ROHS | Below maximum concentration value
REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS | Compliant