



**Product:** [YJ53419B1](#)

Category 3-UTP 50Pair 24AWG , GB 31247 B1 Rating

## Product Description

Category 3-UTP 50Pair 24AWG , GB 31247 B1 Rating

## Technical Specifications

### Product Overview

Suitable Applications:	Premise Backbone Cable, Ethernet 10BASE-T, Analog Phone, FAX
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### Construction Details

#### Conductor

Element	Stranding	No. of Pairs
Pair(s)	Solid	50

#### Insulation

Material	Color Code
PE - Polyethylene	Western Electric Bound in (12P +13P) X 2 Pair Sub-Units, Binder 1: Blue, Binder 2: Orange, Binder 3: Green, Binder 4: Brown

#### Outer Shield

Shield Type
No Shield

#### Outer Jacket

Material	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Yes

Overall Cable Diameter (Nominal):	17 mm (0.67 in)
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### Electrical Characteristics

#### Electricals

Max. Conductor DCR	Max. Mutual Capacitance
93.8 Ohm/km	66 pF/m (20 pF/ft)

#### High Frequency

Frequency	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. SRL (Structural Return Loss) [dB]	Max./Min. Fitted Impedance
1	2.6	41	12	100 ± 15 Ohms
4 MHz	5.6	32	12	100 ± 15 Ohms
8 MHz	8.5	27	12	100 ± 15 Ohms
10 MHz	9.7	26	12	100 ± 15 Ohms
16 MHz	13.1	23	10	100 ± 15 Ohms

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
72 V DC	-20°C to +60°C

## Bend Radius

### Installation Min.

170 mm (6.7 in)

Max. Pull Tension:	400 N (90 lbf)
Bulk Cable Weight:	315 kg/km (212 lbs/1000ft)

## Standards and Compliance

GB Compliance:	GB 31247
TIA/EIA Compliance:	ANSI/ TIA 568 .2 D Category 3
ISO/IEC Compliance:	IEC 11801-1
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

## History

Update and Revision:	Revision Number: 0.20 Revision Date: 04-29-2024
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## Part Numbers

### Variants

Item #	Color	Length
YJ53419B1 0101000M	Black	1,000 m
YJ53419B1 0081000M	Gray	1,000 m

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