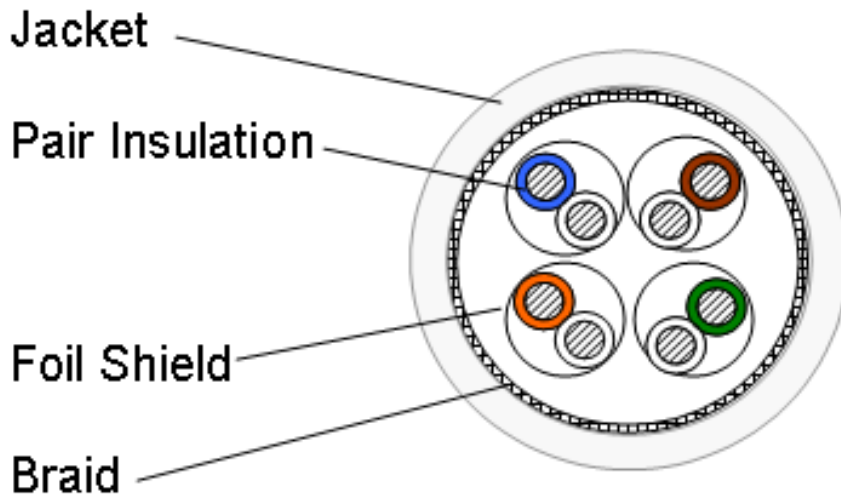


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**3297B Category 7 S/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel**

## Cross Section Drawing



## Construction Materials

Jacket Material	Low Smoke Zero Halogen (LSZH)
Conductor Material	Bare copper
Insulation Material	Polyolefin
Separator Material	Polyolefin
Shield (Braid) Material	Tinned copper
Shield (Tape) Material	Polyester/Aluminum shield

## Dimensions

Cable Length	500 m   1640 ft
Cable Length Tolerance	±5%
Cable Weight	38.30 lb/kft
Diameter Over Jacket	7.391 mm   0.291 in
Jacket Thickness	0.635 mm   0.025 in

## Electrical Performance

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**IL** Insertion Loss (dB/100m)      **ELFEXT** Equal Level Far End Cross Talk (dB/100m)  
**NEXT** Near End Cross Talk (dB/100m)      **PSELFEXT** Power Sum Equal Level Far End Cross Talk (dB/100m)  
**PSNEXT** Power Sum Near End Cross Talk (dB/100m)      **RL** Return Loss (dB/100m)

Freq (MHz)	Maximum IL	Minimum NEXT	Minimum PSNEXT	Minimum ELFEXT	Minimum PSELFEXT	Minimum RL
1	2.0	78.0	75.0	78.0	75.0	20.0
4	3.7	78.0	75.0	78.0	75.0	23.0
8	5.2	78.0	75.0	75.9	72.9	24.5
10	5.9	78.0	75.0	74.0	71.0	25.0
16	7.4	78.0	75.0	69.9	66.9	25.0
20	8.3	78.0	75.0	68.0	65.0	25.0
25	9.3	78.0	75.0	66.0	63.0	24.3
31.25	10.4	78.0	75.0	64.1	61.1	23.6
62.5	14.9	75.5	72.5	58.1	55.1	21.5
100	19.0	72.4	69.4	54.0	51.0	20.1
155	24.0	69.5	66.5	50.2	47.2	18.8
200	27.5	67.9	64.9	48.0	45.0	18.0
250	31.0	66.4	63.4	46.0	43.0	17.3
300	34.2	65.2	62.2	44.5	41.5	17.3
350	37.2	64.2	61.2	43.1	40.1	17.3
400	40.0	63.4	60.4	42.0	39.0	17.3
500	45.3	61.9	58.9	40.0	37.0	17.3
550	47.7	61.3	58.3	39.2	36.2	17.3
600	50.1	60.7	57.7	38.4	35.4	17.3
1000	66.9	57.4	54.4	34.0	31.0	17.3

Values above 600 MHz are for reference only.

## Electrical Specifications

ANSI/TIA Category	7
dc Resistance Unbalance, maximum	2 %
dc Resistance, maximum	7.61 ohms/100 m
Mutual Capacitance	4.2 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	80 %
Operating Frequency, maximum	600 MHz
Transmission Standards	ISO/IEC 11801 Class F
Note	All electrical transmission tests include swept frequency measurements

## Environmental Specifications

Environmental Space	Low Smoke Zero Halogen (LSZH)
Acid Gas Test Method	IEC 60754-2
Flame Test Method	IEC 60332-3-24
Installation Temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Smoke Test Method	IEC 61034-2

## General Specifications

Cable Type	S/FTP (shielded)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	Reel
Brand	CommScope®
Jacket Color	White
Product Number	3297B
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8

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Ordering Note

Available in Europe, Middle East, and Africa

## Mechanical Specifications

Pulling Tension, maximum 11 kg | 25 lb

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

