3298A-B Category 7A S/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel

Product Classification

Regional Availability
EMEA

Portfolio
SYSTIMAX®

Product Type
Twisted pair cable

General Specifications

Product Number
3298A-B

ANSI/TIA Category
7A

Cable Component Type
Horizontal

Cable Type
S/FTP (shielded)

Conductor Type, singles
Solid

Conductors, quantity
8

Jacket Color
White

Pairs, quantity
4

Transmission Standards
ANSI/TIA-568.2-D | ISO/IEC 11801 Class FA

Dimensions

Cable Length
500 m | 1,640.42 ft

Cable Length Tolerance
±5%

Diameter Over Jacket, nominal
7.493 mm | 0.295 in

Jacket Thickness
0.635 mm | 0.025 in

Conductor Gauge, singles
23 AWG

Cross Section Drawing
Electrical Specifications

- **dc Resistance Unbalance, maximum**: 2 %
- **dc Resistance, maximum**: 7.61 ohms/100 m | 2.32 ohms/100 ft
- **Mutual Capacitance at Frequency**: 4.3 nF/100 m @ 1 kHz
- **Nominal Velocity of Propagation (NVP)**: 76 %
- **Operating Frequency, maximum**: 1000 MHz
- **Operating Voltage, maximum**: 80 V
## Electrical Cable Performance

**CS** CommScope  
**STD** Refers to the standard value listed under Transmission Standards in the Electrical Specifications above  
**TYP** Typical Electrical Performance  
**IL** Insertion Loss (dB/100m)  
**ACR** Attenuation to Crosstalk Ratio (dB/100m)  
**PSACR** Power Sum Attenuation to Crosstalk Ratio (dB/100m)  
**PSACRF** Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)  
**TCL** Transverse Conversion Loss (dB/100m)  
**NEXT** Near End Crosstalk (dB/100m)  
**PSNEXT** Power Sum Near End Crosstalk (dB/100m)  
**ACRF** Attenuation to Crosstalk Ratio - Far End (dB/100m)  
**RL** Return Loss (dB)  
**ELTCTL** Equal Level Transverse Conversion Transfer Loss (dB/100m)

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### Material Specifications

**Conductor Material** Bare copper  
**Insulation Material** Polyolefin
Jacket Material
Low Smoke Zero Halogen (LSZH)

Shield (Braid) Material
Tinned copper

Shield (Tape) Material
Polyester/Aluminum shield

Mechanical Specifications
Pulling Tension, maximum
11.34 kg | 25 lb

Environmental Specifications
Installation temperature
0 °C to +50 °C (+32 °F to +122 °F)

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

Acid Gas Test Method
EN 50267-2-3

EN50575 CPR Cable EuroClass Fire Performance
B2ca

EN50575 CPR Cable EuroClass Smoke Rating
s1

EN50575 CPR Cable EuroClass Droplets Rating
d1

EN50575 CPR Cable EuroClass Acidity Rating
a1

Environmental Space
Low Smoke Zero Halogen (LSZH)

Smoke Test Method
IEC 61034-2

Packaging and Weights
Cable weight
64.125 kg/km | 43.09 lb/kft

Packaging Type
Reel

Regulatory Compliance/Certifications
Agency
CENELEC

Classification
EN 50575 compliant, Declaration of Performance (DoP) available

ISO 9001:2015
Designed, manufactured and/or distributed under this quality management system