

CS41Z1, ETL Verified Category 6A U/UTP Cable, low smoke zero halogen, blue jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

Regional Availability	Asia   Australia/New Zealand
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

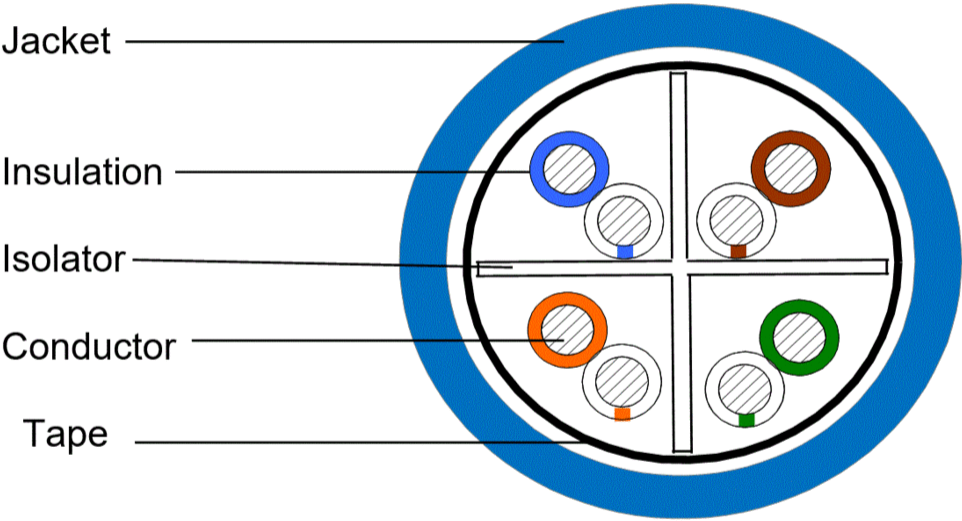
General Specifications

Product Number	CS41Z1
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Blue
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568.2-D   IEC 61156-5

Dimensions

Cable Length	304.8 m   1000 ft
Diameter Over Conductor	1.08 mm   0.043 in
Diameter Over Jacket, nominal	6.985 mm   0.275 in
Jacket Thickness	0.508 mm   0.02 in
Conductor Gauge, singles	24 AWG

Cross Section Drawing



Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	8 ohms/100 m   2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac   2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	67 %
Operating Frequency, maximum	500 MHz
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

# 884041004/10 | CS41Z1 BLU C6A 4/24 U/UTP RL 305M

Safety Voltage Rating 300 V

Segregation Class b

## Electrical Performance

Freq (MHz)	IL (dB/100m)	NEXT (dB/100m)	ACR (dB/100m)	PSNEXT (dB/100m)	PSACR (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB)
	Std	Std	Std	Std	Std	Std	Std	
1	2.1	75.3	73.2	72.3	70.2	68.0	65.0	20.0
4	3.8	66.3	62.5	63.3	59.5	55.9	53.0	23.0
8	5.3	61.7	56.4	58.7	53.4	49.9	46.9	24.5
10	5.9	60.3	54.4	57.3	51.4	48.0	45.0	25.0
16	7.5	57.2	49.7	54.2	46.7	43.9	40.9	25.0
20	8.4	55.8	47.4	52.8	44.4	42.0	39.0	25.0
25	9.4	54.3	44.9	51.3	41.9	40.0	37.0	24.3
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6
62.5	15.0	48.4	33.4	45.4	30.4	32.1	29.1	21.5
100	19.1	45.3	26.2	42.3	23.2	28.0	25.0	20.1
155	24.1	42.4	18.3	39.4	15.3	24.2	21.2	18.8
200	27.6	40.8	13.2	37.8	10.2	22.0	19.0	18.0
250	31.1	39.3	8.3	36.3	5.3	20.0	17.0	17.3
300	34.3	38.1	3.9	35.1	0.9	18.4	15.5	16.8
350	37.2	37.1	-0.1	34.1	-3.1	17.1	14.1	16.3
400	40.1	36.3	-3.8	33.3	-6.8	15.9	13.0	15.9
500	45.3	34.8	-10.5	31.8	-13.5	14.0	11.0	15.2

CS = CommScope | Std = Standard value listed under Transmission Standards in the Electrical Specifications | Typ = Typical

## Material Specifications

- Conductor Material
- Bare copper
- Insulation Material
- Polyolefin
- Jacket Material
- Low Smoke Zero Halogen (LSZH)
- Separator Material
- Polyolefin
- Tape Material
- Poly/Aluminum/Poly

## Mechanical Specifications

Pulling Tension, maximum

11.34 kg | 25 lb

Environmental Specifications

Installation temperature

0 °C to +60 °C (+32 °F to +140 °F)

Operating Temperature

-20 °C to +60 °C (-4 °F to +140 °F)

Environmental Space

Low Smoke Zero Halogen (LSZH)

Flame Test Method

IEC 60332-1

Packaging and Weights

Cable weight

44.451 kg/km | 29.87 lb/kft

Packaging Type

Reel

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system

