

CS34Z3 Category 6 U/UTP Cable, low smoke zero halogen, lilac jacket, 4 pair count, 1000 ft (305 m) length CommPak

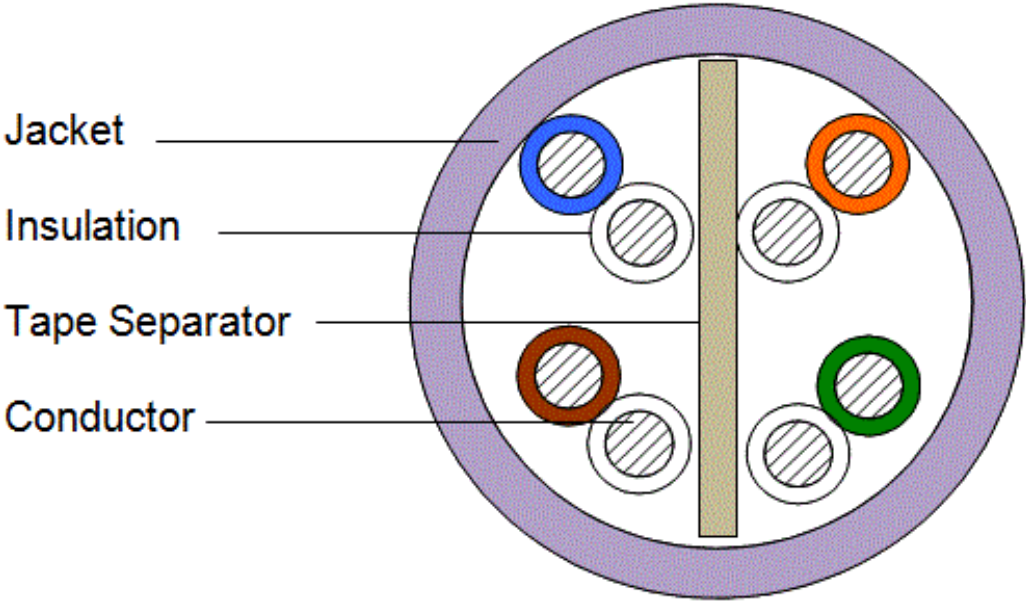
Product Classification

Portfolio	NETCONNECT®
Product Type	Twisted pair cable
Regional Availability	EMEA

Standards And Qualifications

EN50575 CPR Cable EuroClass	Dca s2 d2 a1
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Cross Section Drawing



Construction Materials

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

Dimensions

Cable Length	305 m 1000 ft
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Cable Weight	19.10 lb/kft
Diameter Over Jacket, nominal	5.715 mm 0.225 in
Jacket Thickness	0.559 mm 0.022 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew, maximum	24 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	69 %
Operating Frequency, maximum	250 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
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
Safety Voltage Rating	300 V
Note	All electrical transmission tests include swept frequency measurements

Environmental Specifications

Environmental Space	Low Smoke Zero Halogen (LSZH)
Smoke Test Method	IEC 61034-2
Acid Gas Test Method	IEC 60754-2
Flame Test Method	IEC 60332-3-22
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

General Specifications

Cable Type	U/UTP (unshielded)
Packaging Type	CommPak® box
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	Lilac
Product Number	CS34Z3
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8

Ordering Note
Separator Type

Available in Europe, Middle East, and Africa
Tape separator

Mechanical Specifications

Pulling Tension, maximum 11 kg | 25 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
CENELEC

Classification

Compliant
Designed, manufactured and/or distributed under this quality management system
EN 50575 compliant, Declaration of Performance (DoP) available



Electrical Performance

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

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL		TCL		ELTCTL	
	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std
1	2.0	2.0	75.3	74.3	73.3	72.3	72.3	72.3	70.3	70.3	68.0	67.8	65.0	64.8	20.0	20.0	40.0	40.0	35.0	35.0
4	3.8	3.8	66.3	65.3	62.5	61.5	63.3	63.3	59.5	59.5	56.0	55.8	53.0	52.8	23.0	23.0	40.0	40.0	23.0	23.0
8	5.3	5.3	61.8	60.8	56.4	55.4	58.8	58.8	53.4	53.4	49.9	49.7	46.9	46.7	24.5	24.5	40.0	40.0	16.9	16.9
10	6.0	6.0	60.3	59.3	54.3	53.3	57.3	57.3	51.3	51.3	48.0	47.8	45.0	44.8	25.0	25.0	40.0	40.0	15.0	15.0
16	7.6	7.6	57.2	56.2	49.7	48.7	54.2	54.2	46.7	46.7	43.9	43.7	40.9	40.7	25.0	25.0	38.0	38.0	10.9	10.9
20	8.5	8.5	55.8	54.8	47.3	46.3	52.8	52.8	44.3	44.3	42.0	41.8	39.0	38.8	25.0	25.0	37.0	37.0	9.0	9.0
25	9.5	9.5	54.3	53.3	44.8	43.8	51.3	51.3	41.8	41.8	40.0	39.8	37.0	36.8	24.3	24.3	36.0	36.0	7.0	7.0
31.25	10.7	10.7	52.9	51.9	42.2	41.2	49.9	49.9	39.2	39.2	38.1	37.9	35.1	34.9	23.6	23.6	35.1	35.1		
62.5	15.4	15.4	48.4	47.4	33.0	32.0	45.4	45.4	30.0	30.0	32.1	31.9	29.1	28.9	21.5	21.5	32.0	32.0		
100	19.8	19.8	45.3	44.3	25.5	24.5	42.3	42.3	22.5	22.5	28.0	27.8	25.0	24.8	20.1	20.1	30.0	30.0		
155	25.2	25.2	42.4	41.4	17.3	16.3	39.4	39.4	14.3	14.3	24.2	24.0	21.2	21.0	18.8	18.8	28.1	28.1		
200	29.0	29.0	40.8	39.8	11.8	10.8	37.8	37.8	8.8	8.8	22.0	21.8	19.0	18.8	18.0	18.0	27.0	27.0		
250	32.8	32.8	39.3	38.3	6.5	5.5	36.3	36.3	3.5	3.5	20.0	19.8	17.0	16.8	17.3	17.3	26.0	26.0		