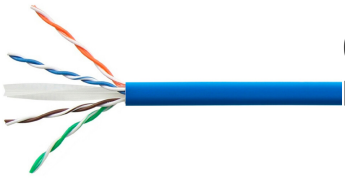
1427071-6 | CS30CM BLU C6 4/24 U/UTP RIB 305M



Copper Cable, category 6, 4 pair, UTP, CM rated, 24 AWG, 305 m reel in box, blue

Product Classification

Regional Availability	Asia | Latin America
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

General Specifications

Product Number	CS30CM
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Blue
Pairs, quantity	4
Transmission Standards	ANSI/TIA-568.2-D | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class E

Dimensions

Cable Length	304.8 m | 1000 ft
Diameter Over Insulated Conductor	0.909 mm | 0.036 in
Diameter Over Jacket, nominal	5.41 mm | 0.213 in
Conductor Gauge, singles	24 AWG

Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m | 2.859 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac | 2500 Vdc

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Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V
Propagation Delay, maximum	536 ns/100m @250MHz
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

Electrical Performance

CS
CommScope value

Std
Sandard value

(listed under the Transmission Standards in the Electrical Specifications above)

Typ
Typical value

IL
Insertion Loss (dB/100m)

RL
Return Loss (dB)

NEXT
Near End Crosstalk (dB/100m)

PSNEXT
Power Sum Near End Crosstalk (dB/100m)

ACR
Attenuation to Crosstalk Ratio (dB/100m)

ACRF
Attenuation to Crosstalk Ratio - Far End (dB/100m)

PSACR
Power Sum Attenuation to Crosstalk Ratio (dB/100m)

PSACRF
Insertion Loss (dB/100m)

FREQUENCY	IL TYP	IL CS	IL STD	NEXT TYP	NEXT CS	NEXT STD	ACR TYP	ACR CS	ACR STD	PSNEXT TYP	PSNEXT CS	PSNEXT STD	PSACR TYP	PSACR CS	PSACR STD	ACRF TYP	ACRF CS	ACRF STD	PSACRF TYP	PSACRF CS	PSACRF STD	RL TYP	RL CS	RL STD	TCL TYP	TCL CS	TCL STD	ELTCTL TYP	ELTCTL CS	ELTCTL STD
1.00 MHz			2			74.3			72.3			72.3			70.3			67.8			64.8			20			40			35
10.00 MHz			6			59.3			53.3			57.3			51.3			47.8			44.8			25			40			15
100.00 MHz			19.8			44.3			24.5			42.3			22.5			27.8			24.8			20.1			30			
155.00 MHz			25.2			41.4			16.3			39.4			14.3			24			21			18.8			28.1			
16.00 MHz			7.6			56.2			48.7			54.2			46.7			43.7			40.7			25			38			10.9
20.00 MHz			8.5			54.8			46.3			52.8			44.3			41.8			38.8			25			37			9
200.00 MHz			29			39.8			10.8			37.8			8.8			21.8			18.8			18			27			
25.00 MHz			9.5			53.3			43.8			51.3			41.8			39.8			36.8			24.3			36			7
250.00 MHz			32.8			38.3			5.5			36.3			3.5			19.8			16.8			17.3			26			
31.25 MHz			10.7			51.9			41.2			49.9			39.2			37.9			34.9			23.6			35.1			
4.00 MHz			3.8			65.3			61.5			63.3			59.5			55.8			52.8			23			40			23
62.50 MHz			15.4			47.4			32			45.4			30			31.9			28.9			21.5			32			
8.00 MHz			5.3			60.8			55.4			58.8			53.4			49.9			46.9			24.5			40			16.9

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	PVC

Mechanical Specifications

Minimum Bend Radius Note	4 times the outer cable diameter

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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)
Storage Temperature	-20 °C to +80 °C (-4 °F to +176 °F)
Environmental Space	Non-plenum
Flame Test Method	CM | UL 1685

Packaging and Weights

Packaging Type	Reel in box

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant