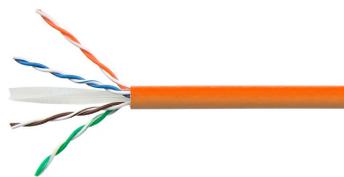


# 1427071-5 | CS30CM ORG C6 4/24 U/UTP RIB 305M

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

## Product Classification

<b>Regional Availability</b>	Asia   Latin America
<b>Portfolio</b>	NETCONNECT®
<b>Product Type</b>	Twisted pair cable

## General Specifications

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

## Dimensions

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

## Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	9.38 ohms/100 m   2.859 ohms/100 ft
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>Mutual Capacitance at Frequency</b>	5.6 nF/100 m @ 1 kHz

<b>Nominal Velocity of Propagation (NVP)</b>	68 %
<b>Operating Frequency, maximum</b>	250 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Propagation Delay, maximum</b>	536 ns/100m @250MHz
<b>Remote Powering</b>	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 Cable Performance

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

Freq. MHz	IL	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL	TCL	ELTCTL
	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
1	2	74.3	72.3	72.3	70.3	67.8	64.8	20	40	35
4	3.8	65.3	61.5	63.3	59.5	55.8	52.8	23	40	23
8	5.3	60.8	55.4	58.8	53.4	49.9	46.9	24.5	40	16.9
10	6	59.3	53.3	57.3	51.3	47.8	44.8	25	40	15
16	7.6	56.2	48.7	54.2	46.7	43.7	40.7	25	38	10.9
20	8.5	54.8	46.3	52.8	44.3	41.8	38.8	25	37	9
25	9.5	53.3	43.8	51.3	41.8	39.8	36.8	24.3	36	7
31.25	10.7	51.9	41.2	49.9	39.2	37.9	34.9	23.6	35.1	
62.5	15.4	47.4	32	45.4	30	31.9	28.9	21.5	32	
100	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1	30	
155	25.2	41.4	16.3	39.4	14.3	24	21	18.8	28.1	
200	29	39.8	10.8	37.8	8.8	21.8	18.8	18	27	
250	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3	26	

## Material Specifications

<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	Polyolefin
<b>Jacket Material</b>	PVC

## Mechanical Specifications

<b>Minimum Bend Radius Note</b>	4 times the outer cable diameter
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## Environmental Specifications

<b>Installation temperature</b>	0 °C to +60 °C (-32 °F to +140 °F)
<b>Operating Temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Storage Temperature</b>	-20 °C to +80 °C (-4 °F to +176 °F)
<b>Environmental Space</b>	Non-plenum
<b>Flame Test Method</b>	CM   UL 1685

## Packaging and Weights

<b>Packaging Type</b>	Reel in box
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

