



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

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	Orange
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
Dielectric Strength, minimum	1500 Vac 2500 Vdc
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 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)	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
	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

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
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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

