



CAT6 UTP 4 PAIR CM CABLE

Technical information



Features: A four pair unshielded twisted pair (UTP) cable. Compliant with the latest specifications

- ◆ REELEX twist and tangle-free packaging
- ◆ Low memory
- ◆ Metre marked from 305m to 0m
- ◆ Cat6 ISO11801 Class E or EN50173 Class E
- ◆ 24AWG solid conductors
- ◆ CM sheath
- ◆ Boxed 305m reel
- ◆ 25 year Ultima System Warranty compliant

Physical Characteristics

Construction	Pairs	AWG	Conductor Dimension	Conductor Material
U/UTP	4 Pair	24 AWG	0.535 +/-0.02mm	Solid bare copper
Insulation Material	Outer Jacket Material	Insulation Dimension	Nom. Outer Jacket Thickness	Overall Diameter
HDPE	CM	0.96 +/-0.05mm	0.55mm	6.0 +/-0.3mm
Operating Temperature	Bulk Cable Weight	Min. Bend Radius	Max. Pulling Tension	Jacket Tensile Strength
-20°C ~ +75°C	40.0Kg/km	24mm	110N	>= 13.8Mpa

Electrical Characteristics

Nom. Mutual Capacitance	Max. Capacitance Unbalance	Nominal Velocity of Propagation	Max. Delay Skew
<=5.6nF/100m (@ 1KHz)	<=330 pF/100m	65%	45ns/100m
Max. Conductor DC Resistance	Min. Insulation Resistance	Max. Conductor Resistance Unbalance	Max. Operating Voltage – UL
93.8Ω/km (@ 20°C)	5000MΩ.km	<=5% (@ 20°C)	300V

Frequency (MHz)	Upper Characteristic Impedance Zu(Ω)	Lower Characteristic Impedance Zl(Ω)	RL (dB)	ATT (dB/100m)	NEXT (dB)	PS NEXT (dB)	ELFEXT (dB/100m)	PS ELFEXT (dB/100m)	PD (ns/100m)
1	122.2	81.8	20.0	2.0	74.3	57.0	67.8	64.8	570.0
4	115.2	86.8	23.0	3.8	63.3	50.5	55.8	52.8	552.0
8	112.6	88.8	24.5	5.3	58.8	45.6	49.7	46.7	546.7
10	111.9	89.4	25.0	6.0	57.3	44.0	47.8	44.8	545.4
16	111.9	89.4	25.0	7.6	54.2	40.6	43.7	40.7	543.0
20	111.9	89.4	25.0	8.5	52.8	39.0	41.8	38.8	542.0
25	112.9	88.5	24.3	9.5	51.3	37.3	39.8	36.8	541.0
31.25	114.1	87.7	23.6	10.7	49.9	35.7	37.9	34.9	540.0
62.5	118.3	84.5	21.5	15.4	45.4	30.6	31.9	28.9	538.6
100	121.9	82.0	20.1	19.8	42.3		27.8	24.8	537.6
200	128.8	77.6	18.0	29.0	37.8		21.8	18.8	536.5
250	131.5	76.0	17.3	32.8	36.3	27.1	18.8	16.8	536.3



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Part Numbers

Item	Description	Type	NVP Rating	Sheath	Length	Colour
778133	Solid	UTP	65%	CM	305Mtr	Grey



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Cortland, New York 13045 USA
Phone Number: (800) 345-3851
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ETL Verified Certificate of Conformance Number: 101508913CRT-001

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

Comtec Cable Accessories Ltd

Cardinal distribution Park
Godmanchester, PE292XJ United Kingdom

www.comtecdirect.co.uk

Contact: Mr. Dan Conway

Product Tested: Category 6 4 pair, 24 AWG, UTP, CM, Non-Plenum, Horizontal (solid) Cable.
Model(s) and or Brand Name: 778133 and QTM-0625316
Standard(s)/Specification: ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 6 with the applicable electrical transmission characteristics
Jacket marking shall include: ETL Verified to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 6.

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: February 13, 2014

Approved By:


John Cash, Associate Engineer


Antoine Pelletier, Team Leader

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

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