

TrueNet®

Cable – Category 6

Issue 3

Ordering Information

Description	Part Number
Cable C6 4pr Solid UTP CM	6499 1 030-XX

Product Description and Application

This Category 6, UTP 4 Pair cable is an unscreened cable with PVC outer sheath, for use in high speed data communication.

With internationally defined physical and electrical performance up to 250MHz.

Supplied in a 305m box

Note: XX in part number = Jacket colour

-01 = Grey

-03 = Blue

General Specification and Features

Conductor: 24 AWG copper

Insulation Polyethylene

JacketPVC

Outside diameter 6.0mm nominal

Complies to: ISO11801

TIA/EIA 568-B.2

IEC332-3

Technical Specifications

Mechanical Characteristics:

Minimum bending radius:

- During installation50mm

- After installation.....25mm

Maximum pulling tension: 108N (11kg)

Box mass, full, nominal12kg

Thermal Characteristics:

Operation:-15°C to 70°C

Installation:5°C to 40°C

Electrical Performance:

Conductor DC resistance @ 20°C (max):9.38Ω/100m

DC resistance unbalance (max): 5%

Mutual capacitance @ 20°C (max):5.6nF/100m

NVP Setting 70%

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	Attenuation (dB)	NEXT (dB)	PSNEXT (dB)	Return Loss (dB)	ELFEXT	PS ELFEXT	ACR-N (dB)	PS ACR-N (dB)
f (MHz)	Actual Test Value	Actual Test Value	Actual Test Value	Actual Test Value	Actual Test Value	Actual Test Value	Actual Test Value	Actual Test Value
1.00	1.77	84.3	97.7	34.6	76.8	80.0	82.5	96.0
4.00	3.51	75.0	75.7	34.7	69.8	68.5	71.5	72.2
10.00	5.58	73.4	71.5	33.0	60.0	63.6	67.8	66.0
16.00	7.09	68.8	66.7	32.5	56.7	60.6	61.7	59.6
20.00	7.90	68.1	67.9	33.1	51.2	54.5	60.2	60.0
31.25	9.94	63.9	64.5	29.0	47.5	49.5	54.0	54.6
62.50	14.25	56.2	65.5	30.5	39.2	43.3	42.0	51.2
100.00	18.12	55.1	58.1	29.9	35.9	38.3	37.0	40.0
150.00	22.32	55.0	60.6	29.4	30.6	32.2	32.6	38.3
200.00	25.93	54.5	55.3	25.7	28.4	27.7	28.6	29.4
250.00	29.03	49.5	57.3	22.4	23.6	23.2	20.5	28.2
300.00	31.92	54.7	53.5	24.1	18.2	18.1	22.7	21.6
350.00	35.68	51.1	56.3	20.4	15.9	15.9	15.4	20.6
400.00	37.95	49.8	46.9	20.4	15.8	16.3	11.8	8.9
450.00	40.94	45.2	43.9	19.0	16.1	17.6	4.3	2.9
500.00	42.17	42.2	41.5	18.8	10.5	10.3	-	-
550.00	46.48	45.6	46.0	19.2	10.0	16.0	-	-
600.00	45.49	40.4	45.3	17.0	3.6	8.1	-	-

Note: The above listed discrete frequency performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements. The spec values are based on TIA/EIA 568-B.2 specifications.

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