

PRODUCT DATASHEET: CATEGORY 6 U/UTP 4 PAIR 23 AWG PVC

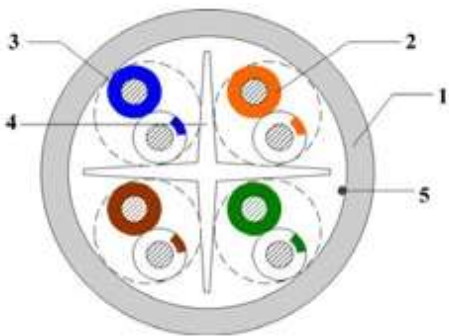
Description

- Rated temperature: 70 °C
Reference standard: EIA/TIA 568-C and IEC/ISO 11801
Product standard certification:
- Solid bare copper conductor
- Color-coded PE insulation

Application

- Enhanced performance cable for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 BASET) standard. Operates at bandwidth of 250MHz.

Product Figure



- 1 – Jacket
- 2 – Insulation
- 3 - Conductor
- 4 – Filler
- 5 – Rip cord

Physical Characteristics

Insulation	Construction	U/UTP
	Number of pairs	4Pair
	AWG	23 AWG
	Solid or stranded; bare or tinned	Solid bare copper
Filler	Insulation Material	HDPE
	Number colour (stripe marking)	1.Blue, White/Blue(stripe)
		2.Orange, White/Orange(stripe)
		3.Green, White/Green(stripe)
4.Brown, White/Brown(stripe)		
Outer jacket	Filler	YES
	Outer jacket material	PVC
Mechanical	Overall dimension	5.9 +/- 0.3 mm
	Outer jacket rip cord	Yes
	Outer jacket colour	Grey RAL7035
Electrical	Operating temp. range	-20 °C ~ +70 °C
	Nom. mutual capacitance	<=5.6 nF/100m @1KHz
characteristics	Capacitance Unbalance Pair/Ground	330 pF/100m Max
	Max. capacitance unbalance	<=330 pF/100m
	Nominal velocity of propagation	69%
	Max. delay skew	45 ns/100m
	Propagation Delay Skew	536 ns/100m
	Impedance	100±15%Ω
	Max. conductor resistance	93.8Ω/km (@ 20 °C)
Max. conductor resistance unbalance	<=5% (@ 20 °C)	

• For additional information please contact your sales representative
 • CISFIBER Infra Solutions Pvt. Ltd. reserves the right to make changes in this datasheet at any time without notice

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Transmission Characteristic per 100m

Frequency (MHz)	IL (dB)	NEXT (dB)	Return Loss (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
1	2.1	65	19.0	62	63.3	60.3
4	4.0	63	19.0	60.5	51.2	48.2
8	5.7	58.2	19.0	55.6	45.2	42.2
10	6.3	56.6	19.0	54.0	43.3	40.3
16	8.0	53.2	18.0	50.6	39.2	36.2
20	9.0	51.6	17.5	49.0	37.2	34.2
25	10.1	50.0	17.0	47.3	35.3	32.3
31.25	11.4	48.4	16.5	45.7	33.4	30.4
62.5	16.5	43.4	14.0	40.6	27.3	24.3
100	21.3	39.9	12.0	37.1	23.3	20.3
200	31.5	34.8	9.0	31.9	17.2	14.2
250	35.9	33.1	8.0	30.2	15.3	12.3

Cable Printing details:

CISNET CAT6 4PR 23AWG PVC TIA-568-C.2 <cable PN> RoHS COMPLIANT <month/year> <batch number> XXX m

Ordering Guide

Part Number	Description
UC211111	CISNET™ CATEGORY 6 U/UTP 4P 23 AWG PVC GREY CABLE 305m IN BOX

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