

Product Description:

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 250 MHz. This cable well exceeds the requirements of TIA/EIA568-C.2 and ISO/IEC 11801 and RoHS compliant.

Features

- PE Sheathed for greater protection
- UV Resistant
- Suitable for Outdoor Installations

Electrical Parameters

- CONDUCTOR RESISTANCE (DC): 9.38 Ω /100MTR@20°C. MAX.
- RESISTANCE UNBALANCE: 4 %MAX
- DIELECTRIC STRENGTH: 1.7 KV AC for 2S
- INSULATION RESISTANCE: 5000 M Ω /km
- MUTUAL CAPACITANCE: 5.6 nF/100 mtrs MAX.
- CAPACITANCE UNBALANCE PAIR/GROUND: 330 pF/100M MAX
- PROPAGATION DELAY: 536 nS/100m max @ 250 MHz
- DELAY SKEW: \leq 45 nS/100M
- NORMAL VELOCITY OF PROPAGATION: 69%
- TENSILE STRENGTH: >9MPa, (9000KN/Square Meter)
- IMPEDANCE: 100 \pm 15% Ω



Construction:

Conductor	<i>Solid Bare Electrolytic Grade Copper</i>
Nominal Conductor Diameter	<i>(23 AWG)</i>
Insulation	<i>Polyethylene</i>
Insulation Diameter	<i>0.973 \pm 0.05 mm</i>
Insulation Thickness	<i>0.217mm</i>
Sheath Thickness	<i>0.5 \pm 0.15 mm</i>
Outer Jacket:	<i>UV-PE</i>
Color of Jacket	<i>Blue</i>
Sequential Marking	<i>At Every Meter</i>
Filler	<i>Yes. Central Slit Film Cross Filler</i>
Approximate OD	<i>7.1 mm</i>

Flame Test

- NEC article 800

Material and Construction

- UL 444

Applicable Standard

- ANSI/TIA-568-C.2 (2009)
- ISO/IEC 11801 (Edition 2.2)
- IEC 61156-5 (Edition 2.0)
- IEC 60332-1-2
- EN50288-6-1 & EN50173-1

HIGH FREQUENCY PARAMETER

FREQ	Ins. Loss	RL	NEXT	ELFEXT	PSNEXT	PSELFEXT
(MHz)	(dB/100)	(dB)	(dB/100)	(dB/100)	(dB/100)	(dB/100)
	Max.	Min	Min.	Min.	Min.	Min.
1	2.1	20	75	68	72.3	65
4	3.8	23	66.3	56	63.3	53
10	6	25	60.3	48	57.3	45
16	7.6	25	57.2	43.9	54.2	40.9
20	8.5	25	55.8	42	52.8	39
31.25	10.7	23.6	52.9	38.1	49.9	35.1
62.5	15.5	21.5	48.4	32.1	45.4	29.1
100	19.9	20.1	45.3	28	42.3	25
200	29.1	18	40.8	22	37.8	19
250	33	17.3	39.3	20	36.3	17

MECHANICAL PROPERTIES

- BEND RADIUS: 8 X CABLE DIAMETER
- TENSILE STRENGTH: >9MPa, (9000KN/Square Meter)
- STORAGE TEMPERATURE: -20°C to 60°C
- OPERATING TEMPERATURE: -20°C to 60°C

PACKAGING - 305M – Reel

Ordering Information

NCB-C6UBLKR-305-O	CAT 6 UTP Outdoor Cable Black – 305 mtr.
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