

CAT6



Cat6 Outdoor Direct Burial Gel Filled Unshielded Cable

SKU: RCT-C6-ODB-GF-UUTP-BK

23AWG • 4 Twisted Pairs • CMX

• U/UTP 550MHz • Solid Bare Copper



Packaging Available

• 1000ft Reel

Jacket Colors



Key Features

- Bandwidth tested up to 550 MHz
- Suitable for 10-Gigabit Ethernet up to 165ft
- Easily Identified Color Striped Pairs
- Sequential Footage Markings Every 2ft
- Certified to ANSI/TIA 568.2-D
- Direct burial cable
- Gel Filled
- RoHS-3 compliant
- Supports PoE, PoE+, and PoE++ (IEEE 802.3af/at/bt) up to 60W & 300V DC

Print Legend

CAT6 550MHZ CMX OUTDOOR CMX
DIRECT BURIAL
4-PAIR 23AWG EIA/TIA-568-C-2-1
0002FT-1000FT

Technical Data

Operating Temp. Range 75°C/167°F

Max. Operating Voltage 300v

Bend Diameter Min. 2.0in/50.8mm

Insulation	PE
Average Thickness	0.220
Min Point Thickness	0.202
Conductor Insulation Dia. (±0.01mm)	1.01
Twisted Pair Dia. (±0.02mm)	2.02
Gel Filled	Yes PE
Spline	LLDPE

Jacket	CMX
Average Thickness	0.60
Min. Point Thickness	0.55
Overall Diameter (±0.1mm)	6.20
Ripcord	Yes

Conductor	Solid Bare Copper
Size	23AWG
Conductor Dia. (±0.05mm)	0.57



Color of Pairs

Pair 1	Blue- White/Blue
Pair 2	Orange- White/Orange
Pair 3	Green- White/Green
Pair 4	Brown- White/Brown



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Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next (Min dB)
1 4 8	20.0	2.0	65.3
16	23.0	4.1	56.3
20	24.5	5.8	51.8
62.5	26.0	8.2	47.3
100	26.5	9.3	45.8
200	25.0	17.0	38.4
250	25.0	22.0	35.3
350	18.0	32.4	30.8
400	17.3	36.9	29.3
550	16.8	41.0	28.2
	15.9	48.5	26.3
	14.9	58.8	24.2

Frequency MHz	PSNEXT min (dB)	ELFEXT min (dB/100m)	PSELFEXT min (dB/100m)	Delay max (ns/100m)
1 4 8	62.3	63.8	60.8	570.0
16	53.3	51.7	48.7	552.0
20	48.8	45.7	42.7	546.7
62.5	44.3	49.7	36.7	543.0
100	42.8	37.7	34.7	542.0
200	35.4	27.8	24.8	538.6
250	32.3	23.8	20.8	537.6
350	27.8	17.7	14.7	536.5
400	26.3	15.8	12.8	536.3
550	25.2	14.2	11.2	536.1
	23.3	11.7	8.7	535.8
	21.2	8.9	5.9	535.5

1.0-500.0MHz Impedance	(ohms)	100 ± 15
1.0-500.0MHz Delay Skew	(ns/100m)	<=45
Pair-to-Ground Capacitance		<=330
Unbalance	(pF/100m)	
Max. Conductor DC Resistance		72.2
20oC (ohms/km)		
Resistance Unbalance	(%)	<=5

Mechanical Characteristics

Test Object	Jacket
Test Material	PE
Before Tensile Strength (Mpa)	>=13.8
Aging Elongation (%)	>=100
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged
Cold Bend (-20+2° Cx4hrs)	No Crack

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