

CAT6 HIGH GRADE 550MHz UTP PLENUM (SPLINE-LESS) TAA COMPLIANT



066-700 SERIES

Technical Data

NVP	69%
Construction	
Conductor	Soft Annealed Copper
AWG	23
Size	Min 0.02 in. (0.546 mm)
Insulation	FEP
Thickness	0.009 in. (0.22 mm)
Jacket	Plenum-Rated FR-PVC
Nominal Diameter	0.21 in. (5.3 mm)
Separator (Divider)	No (Spline-less)
Rip Cord	Yes
Jacket Color	RAL Code
Blue	RAL 5015
White	RAL 9010
Color of Pairs	
Pair 1	Blue, White-Blue
Pair 2	Orange, White-Orange
Pair 3	Green, White-Green
Pair 4	Brown, White-Brown

Electrical Characteristics

Standard	ANSI/TIA-568.2-D, UL 444
Impedance	100Ω±15%
Voltage Rating	300 V RMS

Standards

Flame Test 6 (FT6 Rating), ANSI/NFPA Standard 262 with the applicable electrical transmission characteristics

Applications

High Speed Horizontal Cabling
100 Mbps TPDDI, 1000 Base T. 622 Mbps ATM
IEEE802.3/IEEE802.5, Gigabit Ethernet

Jacket Printing

Vertical Cable E472493 c(UL)US CMP FT6 75C 23 AWG 4PR
- UL VERIFIED CAT6 ANSI/TIA-568.2-D TESTED TO 550MHz
ROHS P1xxxxVxxxx XXXXXX XXXXFT

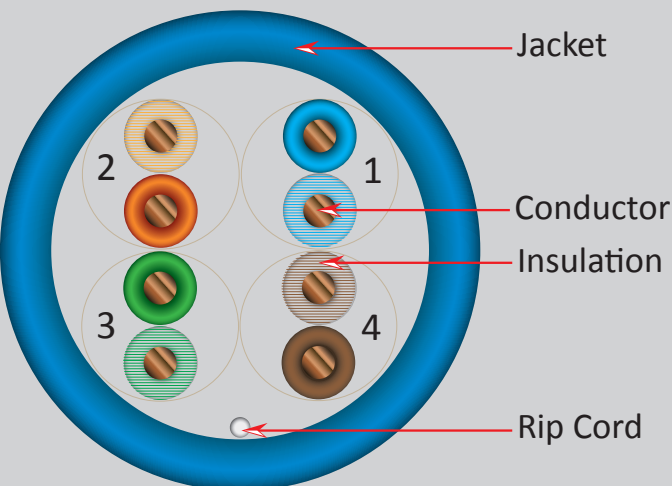
Jacket color available in
Black, Blue, Green, Gray, Red, White, Yellow, Orange, Purple, Pink

DESCRIPTION

CAT6, 23 AWG, UTP, Solid Bare Copper, Plenum CMP Rated, Spline-less.

FEATURES

- Unshielded Twisted-Pair (UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 23 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 Transmission Performance Specifications
- UL-Listed, RoHS Compliant
- Designed in the USA, Imported Product - TAA Compliant
- Packaging: 1,000 ft Pull Box
- Weight: 28.4 lbs



VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York



www.verticalcable.com

Rev. 06/2023

Specs subject to change without notice.
It is the sole responsibility of the user to have the most current specs.

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PERFORMANCE

Electrical Characteristics:

Conductor Resistance (DC)	9.38 Ω /100m 20° C Max
Mutual Capacitance	5.6 nF/100m Max
Resistance Unbalance (DC)	5% Max
Capacitance Unbalance	330 pF/100m Max (pair to ground)
Dielectric Strength (2 sec. DC)	2.5 kV

Item	Attenuation at 20 °C	NEXT	PS NEXT	ACRF	PS ACRF	Return Loss	PD	Skew	
Unit	dB/100m (Max.)	dB/100m (Min.)	dB/100m (Min.)	dB/100m (Min.)	dB/100m (Min.)	dB/100m (Min.)	ns/100m (Max.)	ns/100m (Max.)	
Transmission characteristics	1 MHz	2.0	74.3	72.3	67.8	64.8	20.0	570	45
	4 MHz	3.8	65.3	63.3	55.8	52.8	23.0	552	45
	10 MHz	6.0	59.3	57.3	47.8	44.8	25.0	545	45
	16 MHz	7.6	56.2	54.2	43.7	40.7	25.0	543	45
	20 MHz	8.5	54.8	52.8	41.8	38.8	25.0	542	45
	31.25 MHz	10.7	51.9	49.9	37.9	34.9	23.6	540	45
	62.5 MHz	15.4	47.4	45.4	31.9	28.9	21.5	539	45
	100 MHz	19.8	44.3	42.3	27.8	24.8	20.1	538	45
	200 MHz	29.0	39.8	37.8	21.8	18.8	18.0	537	45
	250 MHz	32.8	38.3	36.3	19.8	16.8	17.3	536	45
	300 MHz	36.4	37.1	35.1	18.3	15.3	16.8	536	45
	400 MHz	43.0	35.3	33.3	15.8	12.8	15.9	536	45
	500 MHz	48.9	33.8	31.8	13.8	10.8	15.2	536	45
550 MHz	51.8	33.2	31.2	13	10	14.9	536	45	

* Performance above 250MHz is only Information value.

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Physical Characteristics	
Insulation (unaged)	
Tensile Strength	17.2 MPa Min.
Elongation	200% Min.
Cold Bend	No Crack (UL 444, Clause 7.5)
Shrinkage	0.4 in. (9.5 mm) Max. (UL 444, Clause 7.4)
Insulation (aged)	
	232±2° C/168 h
Tensile Strength	75% of unaged Min.
Elongation	75% of unaged Min.
PVC Jacket (unaged)	
Tensile Strength	13.8 MPa Min.
Elongation	100% Min.
Cold Bend	No Crack (UL 444, Clause 7.10)
PVC Jacket (aged)	
	100±2° C/240 h
Tensile Strength	85% of unaged Min.
Elongation	50% of unaged Min.
Flame Test	
CMP Type	Pass (NFPA 262)

Box Dimensions	
Size	15" L x 10" W x 15" H (inches)

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