

PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

CAT6NP4DBF

Description: 23AWG Non-Plenum, unshielded four twisted pairs, Flooded Category 6 Horizontal

Cable with a polyethylene jacket, suitable for outdoor use.

Ratings/Approvals: ANSI/TIA/EIA 568C.2 Category 6

Applications: Supports all category 6 applications including Ethernet 1BASE-TX, 100BASE-VG

and 155 ATM. Particularly suited for high bandwidth application such as 622 ATM, Wideband, Ethernet 1000BASE-T and emerging applications with anticipated data

rates to 3.2 Gbps.

CONSTRUCTION

Conductor: 23 AWG Solid Bare Copper

Number of Conductors or Pairs: 4 Pai

Flooding Compound: Water Blocking Gel

Jacket Material: Polyethylene

Nominal Overall Cable Diameter: 0.260 in.

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:Installation: 0°C to 60°C
Operation: -60°C to 60°C

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Velocity of Propagation: 70%

Mutual Capacitance: 14 pF/ft Nominal

Capacitance Unbalance: 330 pF/ft maximum

Maximum Conductor D.C.R.: $28.6\Omega/1,000 \text{ ft}$

Maximum D.C.R. Unbalance: 3%

Maximum Delay Skew: 18 ns/100m

Characteristic Impedance:From 0.772 MHz - 100 MHz $100 \pm 15\%$ From 101 MHz - 250 MHz $100 \pm 22\%$

Maximum Operating Voltage 300 VRMS

Minimum Bend Radius: 1.0 in.

Insulation Colors: Blue paired with White/Blue

Orange paired with White/Orange Green paired with White/Green Brown paired with White/Brown

Issue Date: July '16 Revision: 4

THE STRONGEST LINK IN YOUR SUPPLY CHAIN



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ELECTRICAL CHARACTERISTICS

Frequency	Return Loss	Insertion Loss	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
MHz	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)
	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	20.0	2.0	80.3	78.3	73.8	70.8	78.3	76.3
4	23.0	3.8	71.3	69.3	61.8	58.8	67.5	65.5
10	25.0	6.0	65.3	63.3	53.8	50.8	59.3	57.3
16	25.0	7.6	62.2	60.2	49.7	46.7	54.6	52.6
20	25.0	8.5	60.8	58.8	47.8	44.8	52.3	50.3
31.25	23.6	10.7	57.9	55.9	43.9	40.9	47.2	45.2
62.5	21.5	15.4	53.4	51.4	37.9	34.9	38.0	36.0
100	20.1	19.8	50.3	48.3	33.8	30.8	30.5	28.5
200	18.0	29.0	45.8	43.8	27.8	24.8	16.8	14.9
250	17.3	32.8	44.3	42.3	25.8	22.8	11.5	9.5

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