

- Full Power Sum Performance
- Documented balance characteristics (LCL, LCTL)
- ETL verified to ANSI/TIA/EIA-568-B.2-1 Category 6 standard

LANmark-1000 Category 6 Riser **LANmark-1000 Riser**

Benefits

- Optimal support for Gigabit Ethernet with headroom
- Power sum characterization gives highest performance using existing applications
- Provides additional bandwidth required for future applications
- Addition of balance requirements improves overall cable performance and reduces cable emissions which results in reduced transmission errors
- Characterized to 550 MHz, 300 MHz greater than the standard

LANmark-1000 Category 6 Riser
LANmark-1000 Riser
Part Number: 10032459

Characteristics

Construction characteristics	
Type of cable	UTP
Colour	White
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Packaging	Box
Field of application	Indoor
Category	Cat. 6
Fire safety	Riser Rated

Technical Data - Physical

Technical Data - Physical			Color Code		
			Pair-1	White/Blue	Blue
Conductor	23 AWG Bare Copper		Pair-2	White/Orange	Orange
Conductor diameter-in. (mm)	0.022	(0.56)	Pair-3	White/Green	Green
Insulated Conductor Diameter- in. (mm)	0.039	(0.99)	Pair-4	White/Brown	Brown
Cable diameter-in. (mm)	0.228	(5.8)	Temperature Rating		
Nominal cable weight-lb./kft. (kg/km)	25	(38.2)	Installation	0°C to +50°C	
Max. installation tension-lb. (N)	25	(110)	Operation	-20°C to +75°C	
Min. bend radius-in. (mm)	1	(25.4)			

Parametric Measurements

Mutual Capacitance	4.4 nF/100 m nom.
DC resistance	9.38 Ohms/100 m max.
Skew	35 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	69% nom.
Input Impedance	100 ± 13% 0.772-100 MHz 100 ± [13 +15log (F/100)] 100-350 MHz

LANmark-1000 Category 6 Riser LANmark-1000 Riser

Technical Data - Electrical

FREQ MHz	SRL (dB)		RL (dB)		INSERTION LOSS (dB/100m)		PS-NEXT (dB)		NEXT (dB)		ACR (dB@100m)	
	min.	typical	min.	typical	max.	typical	min.	typical	min.	typical	min.	typical
1	26.0	34.7	20.0	41.2	2.0	1.7	77.3	88.4	79.3	95.6	77.3	88.2
4	26.0	43.1	23.6	38.7	3.8	3.5	68.3	82.3	70.3	91.6	66.5	80.1
10	26.0	45.4	26.0	40.7	5.9	5.6	62.3	74.7	64.3	80.4	58.4	71.3
16	26.0	39.4	26.0	41.7	7.5	7.2	59.3	75.8	61.3	82.7	53.8	70.3
20	26.0	41.8	26.0	46.0	8.4	8.1	57.8	69.9	59.8	76.3	51.4	63.9
31.25	25.0	45.5	25.0	43.6	10.6	10.1	54.9	67.7	56.9	75.7	46.3	59.1
62.5	23.5	39.4	23.5	37.2	15.3	14.6	50.4	67.3	52.4	74.2	37.1	54.3
100	22.5	37.5	22.5	35.3	19.7	18.7	47.3	63.8	49.3	71.4	29.6	47.0
250	20.5	34.5	20.5	32.5	32.6	30.7	41.3	56.0	43.3	62.4	10.7	26.6
350	19.8	32.2	19.8	30.6	39.5	36.9	39.2	52.1	41.2	59.5	1.7	15.6
500	19.0	33.6	19.0	31.2	48.6	45.1	36.8	51.6	38.8	57.7	—	7.0
550	18.8	33.8	18.8	32.3	51.4	47.3	36.2	50.5	38.2	55.7	—	3.6

RL, SRL, IL, NEXT, PSNEXT, ELFEXT, PSELFEXT and impedance are guaranteed to 350 MHz. Data above 350 MHz is for engineering information.

Technical Data - Electrical

FREQ Mhz	PS-ACR (dB@100m)		ELFEXT (dB)		PS-ELFEXT (dB)		LCL/TCL (dB)	EL TCTL (dB)
	min.	typical	min.	typical	min.	typical	min.	min.
1	75.3	86.8	72.8	95.7	69.8	87.4	50.0	35.0
4	64.5	78.8	60.7	83.7	57.7	77.1	44.0	23.0
10	56.4	69.1	52.8	74.8	49.8	68.1	40.0	15.0
16	51.7	68.7	48.7	70.0	45.7	63.3	38.0	10.9
20	49.4	61.9	46.7	66.9	43.7	60.3	37.0	9.0
31.25	44.3	57.7	42.9	62.3	39.9	55.7	35.1	5.5
62.5	35.1	52.7	36.8	55.0	33.8	49.5	32.0	—
100	27.6	45.0	32.8	55.1	29.8	45.8	30.0	—
250	8.7	24.7	24.8	40.6	21.8	33.8	26.0	—
350	—	14.2	21.9	43.6	18.9	33.0	24.6	—
500	—	4.5	18.8	36.0	15.8	27.4	23.0	—
550	—	0.8	17.9	39.4	14.9	29.5	22.6	—

RL, SRL, IL, NEXT, PSNEXT, ELFEXT, PSELFEXT and impedance are guaranteed to 350 MHz. Data above 350 MHz is provided for engineering information.

Contact

Copper LAN Product Inquiry
Phone: 717-354-6200
copper-pc.us@nexans.com

LANmark-1000 Category 6 Riser **LANmark-1000 Riser**

Selling delivery information

PLEASE NOTE: In the interest of product improvement, Berk-Tek, a Nexans company may make improvements or changes in the products, the programs or services described at any time without notice. Additionally, the information contained herein may include typographical errors or technical inaccuracies. Changes will be periodically made to address any such issues.