

NetClear®

STRUCTURED CABLING

Berk-Tek®
A NEXANS COMPANY

legrand®

Ortronics



GTX Category 6A UTP Solutions

10 Gb/s WITHOUT COMPROMISE

Achieving full channel performance at 10 Gb/s over UTP is no simple matter. It calls for the right cable paired with the right connectors and patch cords. Otherwise the resultant system may be full of caveats and apologies instead of the blazing performance 10GBASE-T is clearly intended to deliver.

With the Berk-Tek and Ortronics NetClear® GTX solution, we simply got 10 Gb/s performance right. We meet or exceed IEEE 10G and TIA Category 6a standards, including specifications for alien

crosstalk. As a result, NetClear GTX delivers real-world performance from end-to-end without compromises.

Full channel performance at 10 Gb/s over UTP can be simple. Just specify NetClear GTX.

A COMPLETE CATEGORY 6A SOLUTION

10G is here. And now there's a UTP cabling system that can support all the promises of 10G over copper. As a complete system, from high-performance cable to connectors and connecting hardware, NetClear GTX meets the

TIA Category 6a requirements, including those for internal and alien crosstalk. Engineered with a comfortable performance margin for future requirements, NetClear GTX easily supports 10GBASE-T requirements.

With over 625 MHz of usable bandwidth, it has performance to spare, achieving a Shannon capacity of >18 Gb/s up to the required 500 MHz for reliable 10 Gb/s operation.

NetClear GTX is a next-generation total cabling solution for current and future high bandwidth applications. It supports 10 Gigabit Ethernet over UTP well within alien crosstalk levels, even in demanding "6-around-1" configurations.

Delivering full channel performance that will easily migrate from today's LANs to tomorrow's even more demanding applications is what NetClear GTX is all about. When you're ready to step up to 10G cabling, NetClear should be your first choice. Because it simply works better.

THE NETCLEAR ADVANTAGE

NetClear cabling systems offer exceptional performance at every level. The expertise of Berk-Tek in advanced cabling and

Legrand | Ortronics in designing connecting hardware combine to create system solutions second to none. You get perfectly matched components, plenty of headroom, and the support of a proven, reliable partnership ensuring a structured cabling system that simply works better.

GUARANTEED TO PERFORM

Full Channel Performance
7-100 meters, over all standards-compliant configurations.

Zero Bit-Error Performance

Free from bit errors caused by the NetClear GTX cabling system.

Highest UTP Channel Capacity

Shannon capacity of >18 Gb/s, up to the required 500 MHz for reliable 10 Gb/s operation.

Full Standards Compliance

- ANSI/TIA-568-C.2
- IEEE 802.3an for 10GBASE-T

Full Peace of Mind

Guaranteed performance of any application specified to run on a Category 6a system, including 10GBASE-T.

Full Independent Testing

Confirmed by ETL—including alien crosstalk performance.



NetClear GT Components

Berk-Tek Horizontal Cable

- LANmark™-10G2 UTP cable

Ortronics Connectivity

- Clarity® 10G UTP TracJack® modular jacks and outlets
- Clarity 10G patch panels
- Clarity 10G UTP patch cords

Berk-Tek, A Nexans Company, offers advanced copper and fiber cable for LAN, SAN, data center, security, and outside plant applications. A 50-year tradition of focused engineering combines with the global resources of Nexans to ensure that the company will continue to provide cables with the extra margin of performance and convenience that lead the industry.

Legrand | Ortronics is a global leader in high performance network infrastructure solutions, offering a complete range of copper and fiber optic connectivity, as well as Layer Zero™ physical support solutions including Cablofil® wire mesh cable tray and Wiremold® pathways. Whether it's a LAN, SAN, or data center, Legrand | Ortronics keeps you connected to the people and resources that matter most.

NetClear®

STRUCTURED CABLING

Delivering
Reliability.

www.netclear-channel.com

STATIC CHANNEL PERFORMANCE: CLEARLY BETTER

While GTX requires field testing for all Category 6a internal noise parameters, due to the robust design of the NetClear GTX cabling system, alien crosstalk testing is not required to qualify for the 25-year Category 6a warranty.

Independently Verified Performance 

NETCLEAR GTX

NETCLEAR GTX CHANNEL GUARANTEES*

Frequency (MHz)	INSERTION LOSS (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	PSANEXT (dB)	PSAACRF (dB)	RETURN LOSS (dB)
1	2.3	65.0	62.0	63.3	60.3	67.0	67.0	19.0
4	4.2	63.0	60.5	51.2	48.2	67.0	65.0	19.0
8	5.8	58.2	55.6	45.2	42.2	67.0	58.9	19.0
10	6.5	56.6	54.0	43.3	40.3	67.0	57.0	19.0
16	8.2	53.2	50.6	39.2	36.2	67.0	52.9	18.0
20	9.2	51.6	49.0	37.2	34.2	67.0	51.0	17.5
25	10.2	50.0	47.3	35.3	32.3	66.0	49.0	17.0
31.25	11.5	48.4	45.7	33.4	30.4	65.1	47.1	16.5
62.5	16.4	43.4	40.6	27.3	24.3	62.0	41.1	14.0
100	20.9	39.9	37.1	23.3	20.3	60.0	37.0	12.0
200	30.1	34.8	31.9	17.2	14.2	55.5	31.0	9.0
250	33.9	33.1	30.2	15.3	12.3	54.0	29.0	8.0
300	37.4	31.7	28.8	13.7	10.7	52.8	27.5	7.2
400	43.7	28.7	25.8	11.2	8.2	51.0	25.0	6.0
500	49.3	26.1	23.2	9.3	6.3	49.5	23.0	6.0

*Performance compliant with ANSI/TIA-568-C.2

NETCLEAR GTX ORDERING INFORMATION

Ortronics Clarity 10G UTP Components

MODULAR JACKS

DESCRIPTION	COLOR	PART NO.
TracJack, Clarity 10G, 180° exit	Fog White	OR-TJ610
	Black	OR-TJ610-00
	Blue	OR-TJ610-36
	Red	OR-TJ610-42
	Orange	OR-TJ610-43
	Yellow	OR-TJ610-44
	Green	OR-TJ610-45
	Wiremold® Gray	OR-TJ610-68
	Wiremold® Ivory	OR-TJ610-99

PATCH PANEL, 19" X 1U

DESCRIPTION	PORTS	PART NO.
Angled panel	24	OR-PHA610U24
Angled panel	48	OR-PHA610U48
Flat panel	24	OR-PHD610U24
Flat panel	48	OR-PHD610U48

PATCH CORDS

DESCRIPTION	COLOR	LENGTH	PART NO.
Patch cord, 4-pair, Clarity 10G	White	3 ft.	OR-MC61003-09
		5 ft.	OR-MC61005-09
		7 ft.	OR-MC61007-09
		9 ft.	OR-MC61009-09
		15 ft.	OR-MC61015-09
		20 ft.	OR-MC61020-09
		25 ft.	OR-MC61025-09

Also available in -04 yellow, -05 green, -06 blue, -03 orange, and -02 red.

Berk-Tek Cable

LANMARK-10G2 4-PAIR UTP CABLE, CMP PLENUM RATED

DESCRIPTION	PART NO.
Gray	10137183
White	10137384
Blue	10130484

LANMARK-10G2 4-PAIR UTP CABLE, CMR RISER RATED

DESCRIPTION	PART NO.
White	10137703
Blue	10137700
Gray	10137701

A full selection of physical support products is available from Ortronics, Wiremold, and Cablofil. For more information, please contact your local sales representative or visit www.legrand.us.

Berk-Tek®
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