

NetClear®

STRUCTURED CABLING

Berk-Tek®
A NEXANS COMPANY

legrand®

Ortronics



GT Enhanced Category 5e Solution

The NetClear® GT structured cabling system gives you a Category 5e solution that provides a comfortable margin of additional performance. All components are exceptionally well matched to work together—surpassing all Category 5e requirements. You get full channel performance, without compromise.

The NetClear GT horizontal channel solution is engineered to significantly surpass all requirements of Category 5e applications

and provide maximum headroom over Category 5e performance. NetClear GT guarantees verified channel performance 6 dB above all Category 5e crosstalk requirements and 3 dB above all Category 5e return loss requirements for standards-compliant designs/installations.

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.

100-METER HORIZONTAL CHANNEL

The NetClear GT channel model provides real world design flexibility. NetClear GT horizontal UTP solutions are engineered to optimize application performance using a worst case 4-connector channel. NetClear horizontal UTP solutions eliminate the need for special installation requirements or unique patch/interconnect cord length limitations.

NETCLEAR GT DYNAMIC MEASUREMENTS

Measuring a structured cabling system's dynamic performance is as critical as measuring the static performance when determining the system's real channel capacity.

Independent testing on six 4-connector NetClear GT channels shows that Fast Ethernet

systems operate at frame error rates well below the threshold at which network performance would be degraded. Seamless transitions between cable and connectivity throughout the entire channel ensure that the network's performance will not be degraded by signal reflections.

GUARANTEED TO PERFORM

Full Channel Performance

Exceeds Category 5e requirements for crosstalk by 6dB and by 3dB for Return Loss for both long and short channels.

Zero Bit-Error Performance

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

Highest Category 5e Capacity

100 meter Shannon channel capacity 1.5 Gb/s.

Full Standards Compliance

ANSI/TIA-568-C.2 Category 5e

Full Peace of Mind

Guaranteed performance of any application specified to run on Category 5e systems.

Full Independent Testing

Channel testing by ETL. Component verification by ETL.



NetClear GT Components

Berk-Tek Horizontal Cable

- LANmark-350™ UTP, Plenum/Non-Plenum

Ortronics Connectivity

- Clarity® 5E TracJack® and Series II® Modular Jacks/Outlets
- Clarity 5E Modular 110 Patch Panels
- Clarity 5E Enhanced Frequency 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.

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STRUCTURED CABLING

Delivering
Reliability.

www.netclear-channel.com

STATIC CHANNEL PERFORMANCE: CLEARLY BETTER

The table below shows the guaranteed channel performance margins offered by the NetClear GT system, in comparison to ANSI/TIA-568-C.2 Category 5e requirements. The margins demonstrate the superior engineering of NetClear solutions. In addition, independent testing shows the NetClear GT system typically performs even better than our guaranteed performance. For independent test reports, visit www.netclear-channel.com.

Independently Verified Performance 

Frequency (MHZ)	TIA CAT 5e Insertion Loss (dB/100m)	Guaranteed NetClear GT Insertion Loss (dB/100m)	TIA CAT 5e NEXT (dB)	Guaranteed NetClear GT NEXT (dB)	TIA CAT 5e PSNEXT (dB)	Guaranteed NetClear GT PSNEXT (dB)	TIA CAT 5e ACRF (dB)	Guaranteed NetClear GT ACRF (dB)	TIA CAT 5e PSACRF (dB)	Guaranteed NetClear GT PSACRF (dB)	TIA CAT 5e Return Loss (dB)	Guaranteed NetClear GT Return Loss (dB)
1.0	2.2	2.1	60.0	66.0	57.0	63.0	57.4	63.4	54.4	60.4	17.0	20.0
4.0	4.5	4.0	53.5	59.5	50.5	56.5	45.4	51.4	42.4	48.4	17.0	20.0
10.0	7.1	6.3	47.0	53.0	44.0	50.0	37.4	43.4	34.4	40.4	17.0	20.0
20.0	10.2	9.0	42.0	48.0	39.0	45.0	31.4	37.4	28.4	34.4	17.0	20.0
31.25	12.9	11.3	38.7	44.7	35.7	41.7	27.5	33.5	24.5	30.5	15.1	18.1
62.5	18.6	16.4	33.6	39.6	30.6	36.6	21.5	27.5	18.5	24.5	12.1	15.1
100.0	24.0	21.2	30.1	36.1	27.1	33.1	17.4	23.4	14.4	20.4	10.0	13.0
155.0	—	26.6	—	32.8	—	29.8	—	19.6	—	16.6	—	11.1

Headroom guarantee based on lab verified test data. Headroom measured on field installed channels may vary based on the accuracy of the handheld tester. The handheld tester must be NetClear approved.

NETCLEAR GT ORDERING INFORMATION

Ortronics Clarity 5E Category 5e Components

MODULAR JACKS

DESCRIPTION	PORTS	PART NO.
TracJack T568A/B 180°	—	OR-TJ5E00
Series II T568A/B 180°	1	OR-S215E00
	2	OR-S225E00

HIGH-DENSITY PATCH PANELS

DESCRIPTION	PORTS	PART NO.
Modular to 110 T568A/B	12	OR-PSD5E6U12
	24	OR-PHD5E6U24
	48	OR-PHD5E6U48
	96	OR-PHD5E6U96

To order 24, 48, or 96-port standard-density panels, use "PSD" in place of "PHD"

To order 24- or 48-port angled panels, use "PHA" in place of "PHD"

110 BLOCKS

DESCRIPTION	USABLE PAIRS	PART NO.
100 Pairs (with legs)	96	OR-110ABC5E100
300 Pairs (with legs)	288	OR-110ABC5E300

PATCH CORDS

DESCRIPTION	LENGTH	PART NO.
Green, 4-pair	3 ft.	OR-MC5E03-05
	5 ft.	OR-MC5E05-05
	7 ft.	OR-MC5E07-05
	9 ft.	OR-MC5E09-05
	15 ft.	OR-MC5E15-05
	20 ft.	OR-MC5E20-05
	25 ft.	OR-MC5E25-05

To order other patch cord colors: -02 for red, -04 for yellow, -06 for blue, -08 for gray, -09 for white

SOLID CONDUCTOR MODULAR CABLE ASSEMBLIES

DESCRIPTION	PART NO.
Blue, PVC riser, double-ended modular 8 pos. plug, T568B	OR-SC5ERXXDB-06
Blue, plenum, single-ended modular 8 pos. plug, T568B	OR-SC5EPXXSB-06

Note: XX = length in feet. To order other standard colors for PVC cables, change suffix on MC cords: -02=red, -03=red, -04=yellow, -05=green, -06=blue, -08=gray, -09=white.

Berk-Tek LANmark-350 Enhanced Category 5e Cable

FLAME RATING	JACKET	COLOR	PART NO.
CMR Riser	PVC	Yellow	10032419
		Blue	10032426
		White	10032434
		Light Gray	10032447
CMP Plenum	PVC Alloy	Yellow	10032060
		Blue	10032065
		White	10032072
		Light Gray	10032079

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.

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