

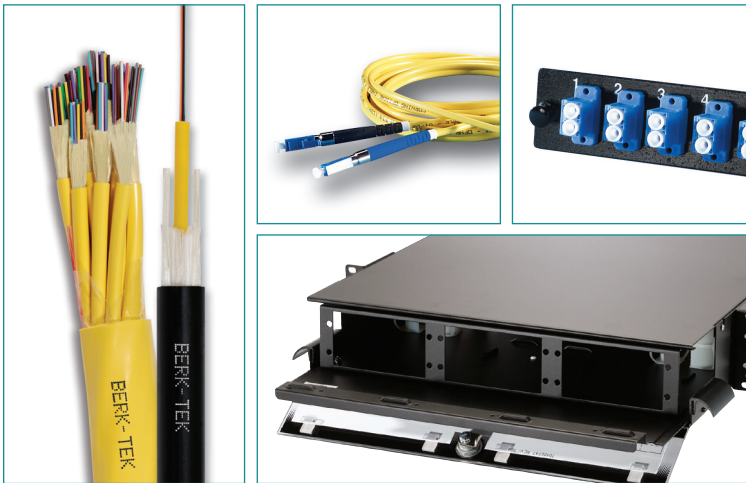
NetClear®

STRUCTURED CABLING

Berk-Tek®
A NEXANS COMPANY

legrand®

Ortronics



SM Fiber Optic Solutions

NetClear® SM single-mode fiber solutions are guaranteed to support Gigabit Ethernet, 10 Gigabit Ethernet and 40/100 Gigabit Ethernet in mission-critical environments such as Data Centers, SANs and LANs.

THE NETCLEAR ADVANTAGE

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

in advanced cabling, and Legrand | Ortronics for superior connecting hardware, combine to create system solutions second to none. You get perfectly matched components, optical channel performance exceeding industry standards and the support of a proven, reliable partnership ensuring a structured cabling system that simply works better.

NETCLEAR SM SYSTEM PERFORMANCE

The NetClear SM fiber solution was developed to facilitate advanced network requirements. NetClear SM offers backbone and campus fiber solutions that guarantee performance and network longevity. The NetClear SM solution is supported by Berk-Tek single-mode fiber, which exceeds the requirements of EIA/TIA and ITU-T G.652D for low water peak single-mode fiber. Low attenuation and superior fiber geometry also allow for low-loss fusion splicing and improved results during field termination.

FLAWLESS MULTISEGMENT PERFORMANCE

The point-to-point performance of a network across the backbone is as important as the horizontal channel performance. NetClear® solutions are tested in the real-world point-to-point configurations, including mixed copper/fiber systems.

THE NETCLEAR SM PERFORMANCE GUARANTEE

Exceptional Performance
NetClear SM solutions guarantee performance beyond the IEEE and Fibre Channel requirements for standard single-mode fiber optic cable.

Full Standards Compliance
ANSI/TIA-568-C.3

Zero Bit-Error Performance
Free from bit errors caused by the NetClear SM cabling system.

Network Migration
NetClear offers hybrid single-mode/multimode fiber optic cable for campus backbones.

Pre-Terminated Trunk Cable Assemblies
Deliver enhanced optical performance and fast deployment.

Full Peace of Mind
The exceptional technology means guaranteed performance of any application specified to operate over single-mode fiber.

Channel Components

Berk-Tek Cable

- Pre-terminated cable assembly
- PD Series—Premise Distribution Cable
- Adventum™ Series Indoor/Outdoor (Riser/Plenum) and OP Series (Outside Plant)
- Micro Data Center Plenum (MDP) Backbone Cable

Ortronics Connectivity

- OptiMo® Pre-Polished and Anaerobic Field-Installable Connectors
- FC Series Rack Mount Fiber Cabinets
- 615 Series Surface Mount Fiber Cabinets
- OptiMo Fiber Optic Patch and Interconnect Cords
- Momentum® 2 and Momentum 3 Pre-terminated MTP/MPO Cassettes

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.

SM

NetClear[®]
STRUCTURED CABLING

Delivering
Reliability.

www.netclear-channel.com

NETCLEAR SM DISTANCE GUARANTEES
(in kilometers)

FIBER TYPE	1310 nm		1550 nm	
	NetClear	Standard	NetClear	Standard
ATM, 622 Mb/s	>2	2	>5	5
Gigabit Ethernet, 1 Gb/s	>5	5	—	—
Fibre Channel, 2.125 Gb/s	>10	10	—	NA
10 Gb/s Ethernet	>10	10	>40*	40
40/100 Gb/s Ethernet	>10	10	>40*	40

*NetClear SM solutions deliver >10 km distances with 1310 nm serial transmission or WDM technology

NETCLEAR SM ORDERING INFORMATION

ORTRONICS[®] NETCLEAR SM COMPONENTS

Momentum[®] 2 Cassettes (Single-mode fiber)

STYLE	HEIGHT	PART NO.
SM LC quad, 24 fiber, 2 MPO with pins	1U	OR-M2LCQ24-09
SM SC duplex, 12 fiber, 1 MPO with pins	1U	OR-M2SCD12-09

Momentum 3 Cassettes (Single-mode fiber)

STYLE	HEIGHT	PART NO.
SM LC quad, 24 fiber, 2 MPO with pins	1U	OR-M3LCQ24-09
SM SC duplex, 12 fiber, 1 MPO with pins	1U	OR-M3SCD12-09

Rack-Mount Cabinets

APPLICATION	HT.	ADAPTER PANEL CAPACITY	TRAY OPERATION	PART NO.
Patching	1U	3	Front/Rear Sliding	OR-FC01U-P
	2U	6	Front/Rear Sliding	OR-FC02U-P
	3U	9	Front/Rear Sliding	OR-FC03U-P
	4U	12	Front/Rear Sliding	OR-FC04U-P
Patch/Splice	2U	6	Front/Rear Sliding	OR-FC02U-C
	3U	9	Front/Rear Sliding	OR-FC03U-C
	4U	12	Front/Rear Sliding	OR-FC04U-C

615 Series Surface-Mount Cabinets, Beige

ADAPTER PANEL CAPACITY	PART NO.
2	OR-615SMFC-12P
4	OR-615SMFC-24P
8	OR-615SMFC-48P

Series Adapter Panels, Blue, Ceramic Sleeves

STYLE	FIBER COUNT	PART NO.
SC, Duplex	12	OR-0FP-SCD12AC
LC, Duplex	12	OR-0FP-LCD12AC
LC, Quad	24	OR-0FP-LCQ24AC

Fusion Splice Accessories

TYPE	PART NO.
12" Fusion Splice Tray	OR-FST2-F012
40 mm Heat Shrink, Fusion Splice Protection Cover, pack of 50	OR-20500043

Patch Cords, Upc, 1 Meter

STYLE	PART NO.
SC to SC Duplex	OR-P1DC21RRZRxxxM
LC to LC Duplex	OR-P1DC21RSZSxxxM

NOTE: Replace xxx in part number with length in meters - 001, 002, 003 are the standard lengths

Pigtails, Upc 2 Meter Length

FIBERS	STYLE	PART NO.
1	SC	OR-P1PC9FRRZZ002M
	LC	OR-P1PC9FRSZZ002M
6	SC	OR-P1SC4ZRRZZ002M
	LC	OR-P1SC4ZRSZZ002M
12	SC	OR-P1TC4ZRRZZ002M
	LC	OR-P1TC4ZRSZZ002M

Field-Installable Connectors

DESCRIPTION	STYLE	FIBER	PART NO.
No Epoxy/No Polish Zirconia Ferrule (25 per pack) (for tight buffered cable)	SC	Single-mode	OR-205KAS9FA-09
	LC	Single-mode	OR-205KAS9GA-09
	Field Installation Kit	Pre-polished	OR-854B00000-1
	SC, Single-mode	Single-mode	OR-205KAN9FA-SM
Anaerobic Termination, Zirconia Ferrule (25 per pack) (ideal for Adventum™ cable)	LC, Single-mode	Single-mode	OR-205KAN9GA-SM
	Field Installation Kit	Anaerobic	OR-85400010
	OptiMo 12 fiber Breakout Kit	—	OR-61500858

BERK-TEK NETCLEAR SM COMPONENTS

Pre-Terminated Data Center Cables

STYLE	PART NO.
Micro Data Center, Plenum, 72 Fiber, Single-Mode, Yellow Jacket, MTP Female with 3.0 mm Round, 39 in. Break-Out, MTP Female with 3.0 mm Round, 39 in. Break-Out, Standard PE Pulling End Only - (2" OD)	BMDP72AEESPxxx
Micro Data Center, Plenum, 48 Fiber, Single-Mode, Yellow Jacket, MTP Female with 3.0 mm Round, 39 in. Break-Out, MTP Female with 3.0 mm Round, 39 in. Break-Out, Standard PE Pulling End Only - (2" OD)	BMDP48AEESPxxx
Micro Data Center, Plenum, 24 Fiber, Single-Mode, Yellow Jacket, MTP Female with 3.0 mm Round, 39 in. Break-Out, MTP Female with 3.0mm Round, 39 in. Break-Out, Standard PE Pulling End Only - (1.3" OD)	BMDP24AEESPxxx

Please visit www.berktek.com/teklab for other cable, fiber and configuration options.
NOTE: xxx=length in meters

Fiber Optic Cable

CABLE TYPE	FIBERS	PART NO.
Horizontal Interconnect (Tight Buffer) Plenum	2	ICP002AB0707
	4	ICP004AB0707
Premise Distribution (Tight Buffer) Riser	6	PDR006AB0707
	12	PDR012AB0707
Adventum™ Indoor/Outdoor (Loose Tube-dry) Plenum	24	LTP0X024AB0403
	48	LTP12B048AB0403
Outside Plant (Loose Tube, Gel Buffer Tube)	72	OPDD12B072AB0403
	144	OPDD12B144AB0403

Note 1: Berk-Tek single-mode optical fibers are ITU-T G.652D compliant

Note 2: Contact Berk-Tek at 1-800-BERK-TEK for complete product listings or visit www.berktek.com

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[®]
A N E X A N S C O M P A N Y

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