

Micro Data Center Plenum

Berk-Tek's patented (US Patent #7,609,926) Micro Data Center Plenum (MDP) cables are designed specifically to enable high-density, backbone connectivity in existing or new data centers. These rugged cables are available in fiber counts from four to 288 optical fibers. This new cable design delivers dramatically reduced cable diameters of up to 50% compared to typical indoor/outdoor and premises-distribution-style cable offerings.

Description

Berk-Tek's MDP cables, when pre-terminated using industry standard MPO connectors(MTP®), provide the highest-density, most-flexible backbone connectivity solution available for data centers and SAN installations. MDP cable is available in four to 288 count fiber constructions. These cables have been thoroughly tested in accordance with Telcordia GR-409 and ICEA-596.

Buffer Tube Construction

All-Dry 1.1 mm buffer tubes containing four 250 µm, individually colored fibers. Buffer tubes and fiber color codes fully compliant with TIA-598-C standard. Buffer tubes are surrounded by cable strength yarns with a plenum rated thermoplastic sheath.

Applications

Berk-Tek's Micro Data Center plenum rated fiber optic cable is intended for all high speed data applications, including:

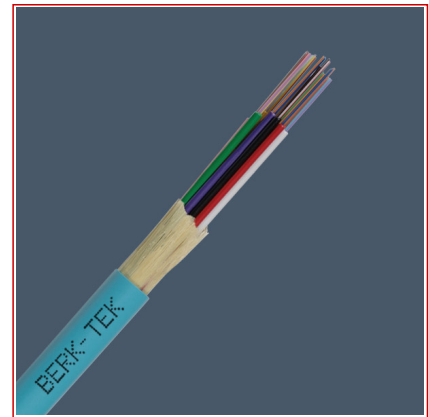
- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE

Features

- Reduced-diameter design with superior tensile load ratings
- Highly flexible construction with a plenum flame rating
- Single-mode, multimode, and hybrid designs available
- Optimized for pre-terminated installations
- Field furcation procedures available online
- All dielectric design standard
- Available with Armor-Tek interlock Armor, aluminum or steel

Benefits

- High density design coupled with smallest diameters enable superior data center backbone cabling solution
- Optimized for pre-terminated installations using MTP, LC, SC, connectors. Additional connector options available
- Hybrid optical fiber offerings available
- Does not exhibit preferential bending limitations typically associated with ribbon cable



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-83-596; ANSI/TIA-568-C.3; Telcordia GR-409

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Physical Characteristics - All Fiber Types

Nb optical fibres	Approximate weight [lb/kft]	Minimum Bending Radius - Install [in]	Minimum Bending Radius - LongTerm [in]	Maximum installation tension [lb]	Max. Load. Long Term (lbs) [lb]
4	6	2	1.3	200	67.0
8	7	2.1	1.4	200	67.0
12	9	2.4	1.6	200	67.0
24	14	2.8	1.9	200	67.0
36	19	3.5	2.3	200	67.0
48	20	3.5	2.3	200	67.0
72	28	4.1	2.7	200	67.0

Product List

☎=Make to order, 📦=Make to stock

Part Number	Description	Optical performance
☎ MDP012CB3510/25 New	12 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)
☎ MDP012GB3510/25 New	12 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)
☎ MDP012ZB3515/15 New	12 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP012LB3010/75 New	12 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP012EB3010/25 New	12 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP012FB3010/F5 New	12 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP012XB3010/X5 New	12 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP012AB0403 New	12 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)
☎ MDP024CB3510/25 New	24 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)
☎ MDP024GB3510/25 New	24 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)
☎ MDP024ZB3515/15 New	24 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP024LB3010/75 New	24 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP024EB3010/25 New	24 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP024FB3010/F5 New	24 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP024XB3010/X5 New	24 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP024AB0403 New	24 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)
☎ MDP036CB3510/25 New	36 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)

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Part Number	Description	Optical performance
☎ MDP036GB3510/25 New	36 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)
☎ MDP036ZB3515/15 New	36 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP036LB3010/75 New	36 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP036EB3010/25 New	36 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP036FB3010/F5 New	36 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP036XB3010/X5 New	36 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP036AB0403 New	36 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)
☎ MDP004CB3510/25 New	4 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)
☎ MDP004GB3510/25 New	4 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)
☎ MDP004ZB3515/15 New	4 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP004LB3010/75 New	4 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP004EB3010/25 New	4 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP004FB3010/F5 New	4 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP004XB3010/X5 New	4 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP004AB0403 New	4 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)
☎ MDP048CB3510/25 New	48 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)
☎ MDP048GB3510/25 New	48 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)
☎ MDP048ZB3515/15 New	48 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP048LB3010/75 New	48 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP048EB3010/25 New	48 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP048FB3010/F5 New	48 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP048XB3010/X5 New	48 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP048AB0403 New	48 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)
☎ MDP072CB3510/25 New	72 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)
☎ MDP072GB3510/25 New	72 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)

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Part Number	Description	Optical performance
☎ MDP072ZB3515/15 New	72 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP072LB3010/75 New	72 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP072EB3010/25 New	72 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP072FB3010/F5 New	72 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP072XB3010/X5 New	72 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP072AB0403 New	72 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)
☎ MDP008CB3510/25 New	8 x OM1 Micro Data Center Plenum	CB (62.5/125 Standard, OM1)
☎ MDP008GB3510/25 New	8 x OM1+ Micro Data Center Plenum	GB (62.5/125 GIGAlite, OM1+ Extended Distance)
☎ MDP008ZB3515/15 New	8 x OM2 Micro Data Center Plenum	ZB (50/125 FDDI, OM2)
☎ MDP008LB3010/75 New	8 x OM2+ Micro Data Center Plenum	LB (50/125 GIGAlite, OM2+ Extended Distance)
☎ MDP008EB3010/25 New	8 x OM3 Micro Data Center Plenum	EB (50/125 GIGAlite-10, OM3)
☎ MDP008FB3010/F5 New	8 x OM4 Micro Data Center Plenum	FB (50/125 GIGAlite 10-FB, OM4)
☎ MDP008XB3010/X5 New	8 x OM4+ Micro Data Center Plenum	XB (50/125 GIGAlite10-XB, OM4+ Extended Distance)
☎ MDP008AB0403 New	8 x OS2 Micro Data Center Plenum	AB (Single-mode, OS1)

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Manufacturing Release

IMPORTANT NOTICE: This product specification is provided for informational purposes only in order to illustrate typical product constructions, applications and/or methods of installation. Because conditions of actual installation and use are unique and will vary, Berk-Tek makes no representation or warranty as to the reliability, accuracy or completeness of this data, even if Berk-Tek is aware of the product's intended use or purpose. Furthermore, this data does not constitute, nor should it be regarded or relied upon, as professional engineering advice. Installation of cable should only be done by qualified personnel and in conformance with all safety, electrical and other applicable codes, standards, rules or regulations. Appropriate and correct product selection, installation and use, and compliance with all such codes, standards, rules and regulations, is a customer/end-user responsibility. Product specifications, standards, programs or services are subject to improvement or changes without notice. Berk-Tek accepts no liability for typographical errors, technical inaccuracies, omissions or misuse of the information contained herein. Changes will be periodically made to address any such issues.