

Plenum Ribbon Optical Cable 12 Fiber

Berk-Tek's optical fiber ribbon cable is a plenum rated 12 fiber, single-mode or multimode optical fiber ribbon with a protective aramid strength member layer and outer jacket.

Description

CONSTRUCTION

A ribbon is comprised of 12 optical fibers coated with a dual acrylate coating system. The fibers are contained in a peelable UV curable matrix material, and the ribbon structure is designed to allow easy separation of the fibers from the matrix in preparation for splicing or termination to a MTP connector. Aramid strength members are applied between the ribbon and the extruded cable jacket to provide tensile strength to crush resistance. The outer jacket material is plenum-grade thermoplastic.

STANDARDS

International ISO/IEC 11801

North American ANSI/TIA/EIA-568-B.3

FLAME RATING

Berk-Tek optical fiber ribbon cables are plenum listed by Underwriters Laboratories as Type OFNP/FT6.

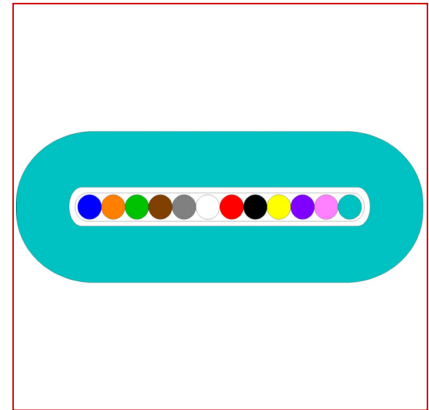
APPLICATIONS

Berk-Tek optical fiber ribbon cables are ideal for use in Data Centers and SAN applications where high density connectivity is required.

Berk-Tek optical fiber ribbon cables are intended for a wide variety of high speed data applications, including

IEEE 802.3 FOIRL	10 Mb/s
IEEE 802.3 10BASE-F	10 Mb/s
IEEE 802.3 10BASE-SX/LX	1 Gb/s
IEEE 802.3 10BASE-X	10 Gb/s
FDDI	100 Mb/s
ATM	155 Mb/s
	622 Mb/s
	1.2-2.4 Gb/s
Fibre Channel FC-PH	1.062 Gb/s

FEATURES



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-87-640; TIA/EIA-568-B; Telcordia GR-20; Telcordia GR-409

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- Step-index, single-mode or graded index multimode optical fiber
- Protective UV cured acrylate coating
- Every fiber is subjected to a 0.7 Gpa (100 kpsi) minimum proof stress per EIA/TIA FOTP-31
- Peelable UV curable matrix material
- Aramid strength members
- Qualified to ICEA S-83-596 and Telcordia GR-409

BENEFITS

- Easily interfaced to MT and MTP based connectors as well as today's newest ribbon connectors.
- Cable jacket designs promotes ease of entry for all terminations.
- Small size equals high density packaging in equipment racks and/or telecommunications closets.
- Plenum rating covers most all flame rating specifications.
- Cable design offers excellent mechanical performance with superior crush and flex ratings.
- Low friction, highly flexible jacket material facilitates easy routing in tight, high-density terminations.

Characteristics

Construction characteristics	
Outer sheath	Plenum
Dimensional characteristics	
Number of optical fibres	12

Sheath Colors

Fiber Type	ISO-TIA Standard	Effective Modal BW @ 850 nm	Overfilled Launch BW @ 850 nm	Attenuation @ 850 nm	Attenuation @ 1300 nm	Attenuation @ 1550 nm	Sheath Color
AB	OS1	NS	NS	NS	0.7 dB/km	0.7 dB/km	Yellow
CB	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
GB	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
ZB	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Orange
LB	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Orange
EB	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua
FB	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua
XB	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua

NS = Not Specified

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Physical Characteristics - All Fiber Types

Nb optical fibres	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Approximate weight [lb/kft]	Maximum installation tension [lb]
12	2	54.0	3	8	180

Product List

☎ = Make to order, 📦 = Make to stock

Part Number	Description
☎ RDP012CB3510/25	12 x OM1 Plenum Ribbon Optical Cable
☎ RDP012GB3510/25	12 x OM1+ Plenum Ribbon Optical Cable
☎ RDP012ZB3515/15	12 x OM2 Plenum Ribbon Optical Cable
☎ RDP012LB3010/75	12 x OM2+ Plenum Ribbon Optical Cable
☎ RDP012EB3010/25	12 x OM3 Plenum Ribbon Optical Cable
☎ RDP012FB3010/F5	12 x OM4 Plenum Ribbon Optical Cable
☎ RDP012XB3010/X5	12 x OM4+ Plenum Ribbon Optical Cable
☎ RDP012AB0707	12 x SMF Plenum Ribbon Optical Cable

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