Berk-Tek Indoor Riser Flex Ribbon Cable (RDRF)

Berk-Tek's riser-rated central tube optical fiber flexible ribbon cable uses single-mode 12 fiber ribbons, in a dry central tube, surrounded by dielectric strength members and a riser rated outer jacket.

DESCRIPTION

Construction

A fiber optic flexible ribbon is comprised of 12 fibers coated with a dual acrylate coating system. The fibers are contained in a peelable UV curable matrix material, and the space-saving flexible ribbon structure is designed to allow easy separation of the fibers from the matrix in preparation for splicing, or termination to a MPO connector. Ribbons are identified per TIA/EIA-598, and are stacked in a dry central tube, surrounded by two layers of flexible strength members, and an extruded cable jacket, providing tensile strength and crush resistance. The outer jacket material is plenum-grade thermoplastic.

Applications

Berk-Tek's fiber optic cable is intended for all high-speed data applications, including:

- ETHERNET: 10BASE 400GBASE (10BASE, 100BASE, 100BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
 SDH: STM-0 STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)
- CPRI: CPRI-1 CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)
- PON (SMF only): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

Features

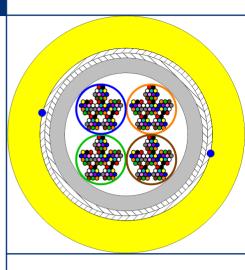
- Step-index G.657.A1 single-mode optical fiber
- · Protective UV cured acrylate ribbon coating in a flexible structure
- Every fiber is subjected to a 0.7 Gpa (100 kpsi) minimum proof stress per TIA/EIA FOTP-31
- Peelable UV curable matrix material
- Ribbons are easily separated for single fiber splicing if needed.
- · Two layers of flexible strength members
- Qualified to ICEA S-83-596 and Telcordia GR-409

Benefits

- Easily interfaced to MT and MPO based connectors, as well as today's newest ribbon connectors.
- Mass fusion splicing ribbon cable enables faster project completion and reduced labor costs.
- On 144F cables, mass fusion splicing 12F-to-12F requires 92% fewer splices than single fiber-to-fiber splicing.
- A single fiber holder can also be used in the mass splicer; no need to worry about multiple machines if a mass splicer is on hand.
- Cable design offers excellent mechanical performance with superior crush and flex ratings.

Country of Origin: U.S.A.

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STANDARDS

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-83-596; ANSI/TIA-568.3-D; Telcordia GR-409



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TECHNICAL DATA - PHYSICAL							Install Long Te		Term	Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius			Max. Loading				
		in.	mm	lb./kft	kg/km	in.	cm	in.	cm	lbf.	Ν	lbf.	N
144	RDRF12B144-M4	0.400	10.1	70	104	4.0	10.1	8.0	20.2	300	1340	100	450
288	RDRF12B288-M4	0.570	14.4	103	153	5.7	14.4	11.3	28.8	300	1340	100	450

TECHNICAL DATA												
Fiber Type	Part Number Suffix	ber Berk-Tek Fiber Core Wavelength Attenuation		Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)							
Single-Mode - Bend Insensitive - ITU-T G.652.D and G.657.A1 Compliant								10 GbE	40 GbE	100 GbE		
OS2	AB0403	Standard for Central Tube Ribbon	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000		

MANUFACTURING RELEASE

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