Berk-Tek Indoor Riser Ribbon Cable with Armor-Tek™ (RDRK)



Berk-Tek riser-rated central tube optical fiber ribbon cable with Armor-Tek™ uses single-mode or multimode, 12, 24, or 36 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, 24 or 36 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 MPO connector. Ribbons are identified per TIA-598, and are stacked in a dry central tube. The tube is surrounded by two layers of flexible strength members, and an extruded cable jacket, providing tensile strength and crush resistance. Aluminum interlock armor and a riser-rated UV-resistant armor jacket are added, providing a protective flexible conduit.

Applications

Berk-Tek optical fiber ribbon cables are ideal for use in ducts, trays, and cabinets in Data Centers and SAN applications where high-density connectivity is required. They are intended for a wide variety of high-speed data applications, including:

- ETHERNET: 10BASE 400GBASE (10BASE, 100BASE, 1000BASE, 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: RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

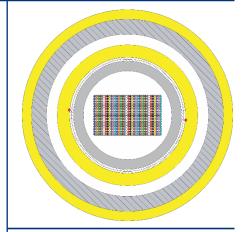
Features

- The armored design allows for an easy one-pull installation into any environment
- · Step-index single-mode, or graded index multimode optical fiber
- Peelable UV curable matrix material
- Ribbons are easily separated for single fiber splicing if needed.
- Qualified to ICEA S-83-596 and Telcordia GR-409

Benefits

- Eliminate the need for conduit or riser innerduct by installing interlock armor cable, providing a significant cost savings in both materials and labor
- Installation time can be reduced by as much as 60% versus installing conduit or innerduct
- Interlock armor is part of the cable and not considered conduit for purposes of the NEC fill ratio, allowing for a higher concentration of cables than when using conduit in a given installation area
- 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

Country of Origin: U.S.A.



STANDARDS

International EN 50173; ISO/IEC 11801

National ICEA S-83-596 ANSI/TIA-568.3-D, OFCR FT4, Telcordia GR-409

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TECHNICAL DATA - PHYSICAL					Install		Long Term		Install		Long Term		
Fibers Product Prefix		Diameter		Weight		Min. Bend		d Radius		Max. Lo		oading	
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
48	RDRK12B048-M4	0.854	21.7	266	396	17.1	43.4	8.5	21.7	600	2700	200	890
96	RDRK12B096-M4	0.854	21.7	266	396	17.1	43.4	8.5	21.7	600	2700	200	890
144	RDRK12B144-M4	0.947	24.1	266	396	18.9	48.1	9.5	24.1	600	2700	200	890
216	RDRK12B216-M4	0.947	24.1	266	396	18.9	48.1	9.5	24.1	600	2700	200	890
288	RDRK24B288-M4	0.947	24.1	266	396	18.9	48.1	9.5	24.1	600	2700	200	890
432	RDRK24B432-M4	1.138	28.9	376	560	22.8	57.8	11.4	28.9	600	2700	200	890
576	RDRK36B576-M4	1.330	33.8	579	862	26.6	67.6	13.3	33.8	600	2700	200	890
864	RDRK36B864-M4	1.330	33.8	579	862	26.6	67.6	13.3	33.8	600	2700	200	890

TECHNI Fiber Type	CAL DATA Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximmum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz.km)		Sheath Color			
Multimo	ode - Bend Inse	nsitive					1 GbE	10 GbE	40 GbE	100 GbE	
ОМ3	EB3010/25	EB	50 μm	850/1300	3.0/1.0	2000	1000	300	100	70	Aqua
OM4	FB3010/F5	FB	50 μm	850/1300	3.0/1.0	4700	1040	550	150	100	Aqua
Single-mode Bend Insensitive - ITU-T G.652.D and G.657.A1 Compliant											
		Standard for Central Tube									
OS2	AB0403	Ribbon	8.3 μm	1310/1550	0.4/0.3	N/A	5000	10000	10000	10000	Yellow

MANUFACTURING RELEASE

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