Berk-Tek Indoor/Outdoor Riser Ribbon Cable (RDR-I/O)



Berk-Tek Indoor/Outdoor riser-rated central tube optical fiber ribbon cable uses single-mode or multimode, 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 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, and surrounded by water-blocking yarns, in a dry central tube. The tube is surrounded by water-blocking tape, two layers of flexible strength members, and an extruded cable jacket, providing tensile strength and crush resistance. The outer jacket material is UV-resistant riser-grade thermoplastic.

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 (SMF Only): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

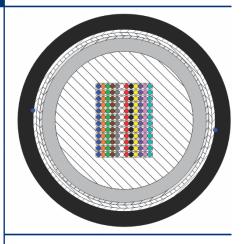
Features

- · 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 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-104-696

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.



STANDARDS

International EN 50173; ISO/IEC 11801

National ICEA S-104-696 ANSI/TIA-568.3-D, OFNR FT4, Telcordia GR-409

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TECHNICAL DATA - PHYSICAL							Install		Long Term		Install		Long Term	
Fibers	Product Prefix	Dian	neter	Weight		Min. Bend Radiu			s		Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N	
12	RDR12B012-I/O(BLA)-M4	0.61	15.5	148	220	12.2	31.0	6.1	15.5	600	2700	200	890	
24	RDR12B024-I/O(BLA)-M4	0.61	15.5	148	220	12.2	31.0	6.1	15.5	600	2700	200	890	
48	RDR12B048-I/O(BLA)-M4	0.61	15.5	148	220	12.2	31.0	6.1	15.5	600	2700	200	890	
72	RDR12B072-I/O(BLA)-M4	0.67	17.0	155	230	13.4	34.0	6.7	17.0	600	2700	200	890	
96	RDR12B096-I/O(BLA)-M4	0.67	17.0	155	230	13.4	34.0	6.7	17.0	600	2700	200	890	
144	RDR12B144-I/O(BLA)-M4	0.67	17.0	155	230	13.4	34.0	6.7	17.0	600	2700	200	890	

Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximmum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz.km)		Sheath Color			
Multime	ode - Bend Inser	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	Black
OM4	FB3010/F5	FB	50 μm	850/1300	3.0/1.0	4700	1040	550	150	100	Black
Single-n	node Bend Inser	nsitive - ITU-T G.	652.D and (G.657.A1 Comp	liant						
		Standard for Central Tube									
OS2	AB0403	Ribbon	8.3 μm	1310/1550	0.4/0.3	N/A	5000	10000	10000	10000	Black

MANUFACTURING RELEASE

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