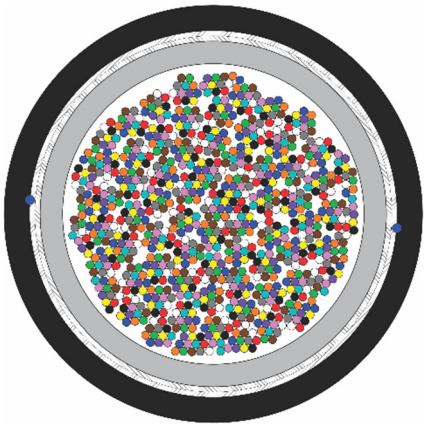
Berk-Tek Indoor/Outdoor LSZH Riser Flexible Ribbon Cable (RDRZF-I/O-M4)

Berk-Tek
a LEVITON company

Leviton's riser-rated LSZH indoor/outdoor central tube optical fiber ribbon cable uses single-mode 12 fiber ribbons, in a dry LSZH central tube, surrounded by dielectric strength members and a LSZH indoor/outdoor 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 surrounded by water-blocking yarns in a dry LSZH central tube that is covered by water blocking tape and two layers of flexible strength members, and an extruded cable jacket, providing tensile strength and crush resistance. The outer jacket material is riser-grade LSZH thermoplastic.

Applications

Leviton 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. Leviton optical fiber ribbon cables 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

- Step-index G.657.A1 single-mode 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 flexible UV curable matrix material
- Ribbons are easily formed into a 12-fiber ribbon, or separated for single fiber splicing if needed.
- Water-blocking yarns and tape
- Two layers of flexible strength members
- Qualified to ICEA S-104-696 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.
- On 144F cables, mass fusion splicing 12F-to-12F requires 92% fewer splices than single fiber-to-fiber splicing.
- Cable design offers excellent mechanical performance with superior crush and flex ratings.

Country of Origin: U.S.A.

STANDARDS

International EN50173;
ISO/IEC 11801

National ICEA S-104-696
ANSI/TIA-568.3-D,
OFNR FT4 LSHF
NFPA 130, EN 50575

EuroClass Rated Designs

Fibers	Rating
48	C_{ca}
288	C_{ca} s1b, d0, a1
1152	$B2_{ca}$ s1b, d0, a1
1728	$B2_{ca}$

SS4066-BTv1 - Released June 2021

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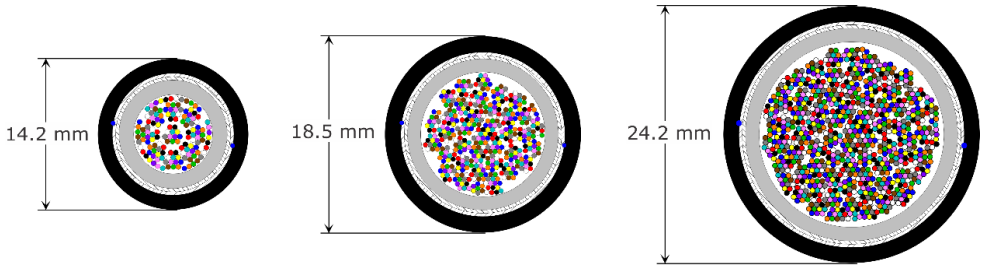
RDRZF-I/O EXAMPLE CROSS-SECTION DIAGRAMS



72-144 fibers | 432 fibers | 864 fibers

TECHNICAL DATA - PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Product Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb/kft.	kg/km	in.	cm	in.	cm	lb	N	lb	N
48	RDRZF12B048AB0403-I/O-M4	0.44	11.3	100	149	4.4	11.3	8.8	22.6	600	2700	200	890
72	RDRZF12B072AB0403-I/O-M4	0.56	14.2	138	205	5.6	14.2	11.2	28.4	600	2700	200	890
96	RDRZF12B096AB0403-I/O-M4	0.56	14.2	137	204	5.6	14.2	11.2	28.4	600	2700	200	890
144	RDRZF12B144AB0403-I/O-M4	0.56	14.2	142	211	5.6	14.2	11.2	28.4	600	2700	200	890
192	RDRZF12B192AB0403-I/O-M4	0.67	17.0	170	252	6.7	17.0	13.4	34.0	600	2700	200	890
288	RDRZF12B288AB0403-I/O-M4	0.67	17.0	175	260	6.7	17.0	13.4	34.0	600	2700	200	890
432	RDRZF12B432AB0403-I/O-M4	0.73	18.5	221	329	7.3	18.5	14.6	37.1	600	2700	200	890
576	RDRZF12B576AB0403-I/O-M4	0.95	24.2	329	490	9.5	24.2	19.0	48.4	600	2700	200	890
864	RDRZF12B864AB0403-I/O-M4	0.95	24.2	339	505	9.5	24.2	19.0	48.4	600	2700	200	890
1152	RDRZF12B1152AB0403-I/O-M4	1.06	26.8	433	646	10.6	26.8	21.2	53.6	600	2700	200	890
1728	RDRZF12B1728AB0403-I/O-M4	1.12	28.6	460	685	11.2	28.6	22.4	57.2	600	2700	200	890

TECHNICAL DATA										
Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximmum Attenuation (dB/km)	Distance (meters)				Sheath Color
Single-mode Bend Insensitive - ITU-T G.652.D and G.657.A1 Compliant						1 GbE	10 GbE	40 GbE	100 GbE	
OS2	AB0403	Standard for Central Tube Ribbon	8.3 µm	1310/1550	0.4/0.3	5000	10000	10000	10000	Black

MANUFACTURING RELEASE

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