

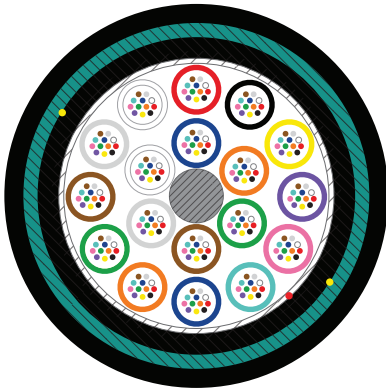
PRODUCT SPECIFICATIONS

BERK-TEK™ Outside Plant Single Armor Double Jacket (OPAD)

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APPLICATION

BERK-TEK Outside Plant Single Armor Double Jacket Loose Tube fiber optic cables are designed for installation in harsh environments such as direct burial, aerial lashing, conduit and pathways that are subjected to wide temperature variations. The Armored Outside Plant product incorporates a corrugated steel armor tape between two jackets surrounding the core and is offered with 24 to 216 fibers per cable. These cables are thoroughly tested and verified to Telcordia GR-20 and ICEA-640 for outside cabling systems. Outdoor Single Armor Double Jacket Loose Tube cables feature gel-filled tubes with 12 individually colored 250 µm fibers and are available in multimode, single-mode, and composite fiber options. Leviton recommends that loose tube cables be utilized in an outside plant installation environment. Loose tube cables are especially recommended if the interbuilding conduit system is likely to fill with water. Sunlight resistant outer jacket per UL 444 clause 7.22.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://leviton.com/ns/warranty)

FEATURES & BENEFITS

- High tensile strength, crush resistant and small diameter design
- Single-mode, multimode, and hybrid composite options available
- Corrugated steel armor provides crush and rodent resistance
- Recommended for direct burial installations
- Fully waterblocked core using dry water blocking system
- Provides for greater pulling distances thus reducing installation time
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Longterm reliability
- Simplified installation and reduced cable plant maintenance lower overall network costs

STANDARDS & REGULATIONS

- RoHS compliant
- 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
- EN 50173; ISO/IEC 11801
- ANSI/ICEA S-87-640
- ANSI/TIA-568.3
- Telcordia GR-20

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TECHNICAL SPECIFICATIONS

Construction

Type of cable	Loose Tube
Jacket material	Polyethylene

Usage Characteristics

Temp. (Storage):	-60 °C to +85 °C (-76 °F to +185 °F)
Temp. (Installation):	-30 °C to +60 °C (-22 °F to +140 °F)
Temp. (Operating):	-40 °C to +75 °C (-40 °F to +167 °F)

TECHNICAL SPECIFICATIONS

Fiber Count	Part Numbers	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in	mm	lb./kft	kg/km	Install		Long Term		Install		Long Term	
						in	cm	in	cm	lbf	N	lbf	N
24	OPAD12B024	0.621	15.8	145	216	12.4	31.5	9.3	23.7	600	2670	180	800
48	OPAD12B048	0.621	15.8	152	227	12.4	31.5	9.3	23.7	600	2670	180	800
72	OPAD12B072	0.659	16.7	181	270	13.2	33.5	9.9	25.1	600	2670	180	800
96	OPAD12B096	0.745	18.9	211	314	14.9	37.8	11.2	28.4	600	2670	180	800
144	OPAD12B144	0.896	22.8	298	443	17.9	45.5	13.4	34.1	600	2670	180	800
216	OPAD12B216	0.920	23.4	314	467	18.4	46.7	13.8	35.1	600	2670	180	800

FIBER DATA AND SHEATH COLORS

Fiber Type	Part Number Suffix	Leviton Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz·km)	Distance (meters)				Sheath Color
Multimode - 62.5 µm Standard, and 50 µm Bend Optimized							1 GbE	10 GbE	40 GbE	100 GbE	
OM1	CB3510/25	CB	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A	Black
OM3	EB3010/25	EB	50 µm	850/1300	2.8/0.8	2000	1000	300	100	70	Black
OM4	FB3010/F5	FB	50 µm	850/1300	2.8/0.8	4700	1040	550	150	100	Black
OM4+	XB3010/X5	XB	50 µm	850/1300	2.8/0.8	4900	1210	600	300	150	Black
WideBand Multimode - 50 µm Bend Optimized							1 GbE	10 GbE	40 GbE	100 GbE	
OM5	WB3010/W5	WB	50 µm	850-953/1300	2.8/0.8	4700	1040	550	190	100	Black
Single-mode Bend Optimized - ITU-T G.652.D and G.657.A1 Compliant							1 GbE	10 GbE	40 GbE	100 GbE	
OS2	AB0403	AB	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000	Black

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FIBER OPTIC CABLE PART NUMBERING PLATFORM

Sample Part Number: [OP](#) [AD](#) [12B024](#) [AB0403](#)

CABLE PREFIX						FIBER SUFFIX			
CABLE FAMILY		CABLE OPTIONS		FIBER COUNT		FIBER TYPE		SUFFIX	
OP	Outside Plant	AD	Corrugated Steel Armor (stranded)	12Bxxx	Subunit Design: xxx = strand count 12 fibers per subunit tube: 12B024 to 12B216	CB3510/25	OM1	-C4	Special Jacket Color
						EB3010/25	OM3	-C5	Special Jacket Color over Armor
						FB3010/F5	OM4	-L1	Special Print
						XB3010/X5	OM4+		
						WB3010/W5	OM5		
						AB0403	OS2 (LT)		

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For further support information, visit [Leviton.com/ns/support](https://leviton.com/ns/support)

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