

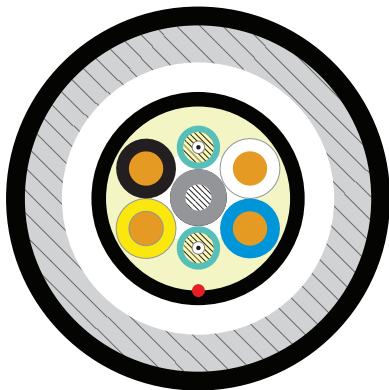
PRODUCT SPECIFICATIONS

Indoor/Outdoor Riser CL3R with ARMOR-TEK (HDRCK)

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APPLICATION

Leviton's composite copper/fiber cables incorporate high bandwidth optical fibers with insulated solid copper TFFN or THWN conductors. ARMOR-TEK Interlocking Armor is wrapped around the CL3R-OF cable core. A wide variety of design options are available including up to eight 12 AWG conductors and up to two tight buffered fibers. These cables are listed as CMR and CL3R-OF/PLTC-OF. A key application of these cables is to extend the distance of standard category cables for powering network devices using Leviton's OneReach™ PoE Extender (Power over Ethernet). Proper conductor size selection can increase this distance from 328 feet to several thousand feet. The powered device could be an IP camera, a wireless access point, or other building automation device located in an area where an electrical outlet is not readily available.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/NS/Warranty

FEATURES & BENEFITS

- Enables PoE equipment to be located more than 100 meters from the switch when used with Leviton's OneReach system
- Cost savings versus installation of a new electrical outlet
- CL3R-OF/PLTC-OF allows cable to be installed in communication pathways
- Eliminates the need for conduit and riser innerduct
- Ease of installation, accommodating last minute relocations or pathway changes
- Broad design selection allows for mix and match of copper and fiber components to specific networking applications
- Armor adds crush resistance and protection from rodent attacks
- Significant cost savings in both materials and labor—up to 25%
- Single-mode, multimode, and hybrid designs available
- CMR and CL3R-OF/PLTC-OF, wet and dry rated
- Aluminum interlock armored, covered with a riser rated jacket
- Tight buffered fibers are in individual 2.0 mm subunits
- Each cable consists of multiple TFFN or THWN copper conductors and multiple fibers cabled together within an outer jacket
- Cable design accommodates from 2 to 8 conductors and up to 2 fibers

STANDARDS & REGULATIONS

- EN 50173; ISO/IEC 11801
- ANSI/ICEA S-104-696; ANSI/TIA-568.3-D; Telcordia GR-409; UL 13
- ETHERNET: 10BASE – 40GBASE (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

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CHARACTERISTICS

Construction	
Type of cable	Tight Buffer
Jacket material	Riser
Usage Characteristics	
Temp. (Storage):	-40 °C to +85 °C (-40 °F to +185 °F)
Temp. (Installation):	-20 °C to +60 °C (-4 °F to +140 °F)
Temp. (Operating):	-40 °C to +75 °C (-40 °F to +167 °F)

CONDUCTOR COLOR SEQUENCE

1	Black
2	White
3	Blue
4	Yellow
5	Brown
6	Orange
7	Purple
8	Pink

TECHNICAL DATA - PHYSICAL

Fiber Count	Part Numbers	Diameter		Weight		Min. Bend Radius				Max. Loading			
						Install		Long Term		Install		Long Term	
		in	mm	lb./kft	kg/km	in	cm	in	cm	lbf	N	lbf	N
2	HDRCK002-002X12AWG	0.780	19.8	221	329	11.7	29.7	7.8	19.8	150	668	45	200
2	HDRCK002-004X12AWG	0.824	20.9	320	476	12.4	31.4	8.2	20.9	300	1335	90	400
2	HDRCK002-008X12AWG	0.824	20.9	427	636	12.4	31.4	8.2	20.9	300	1335	90	400

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 Insensitive							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 - Bend Insensitive							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 Insensitive - ITU-T G.652.D and G.657.A1 Compliant							1 GbE	10 GbE	40 GbE	100 GbE	
OS2	AB0707	AB	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000	Black

For further support information, visit Leviton.com/NS/Support