

ONEREACH™ NOW AVAILABLE WITH SINGLE-MODE FIBER!

CONNECT & POWER YOUR NETWORK DEVICES UP TO 2.5 KM AWAY!

Berk-Tek's OneReach™ solution is an ideal solution for remote applications like cameras, emergency phones, and wireless access points. By combining fiber cable for long-distance data transmission and copper cable for power over Ethernet (PoE) into a single composite cable, OneReach takes PoE+ and HPoE to all new distances.

- Enables remote applications to be connected and powered more than 100 m from the switch
- Provides significant cost savings versus installation of a new electrical outlet with hardened devices
- Can be installed in plenum or riser pathways, with no transition point needed
- Simplifies installation with optional pre-terminated and factory tested products arriving ready to install
- Streamlines network and device management through centralized IT infrastructure

PI HEAD END DEVICES

The OneReach™ System begins in the local closet with the Power Injector Device (PI), which provides both the power to run the system and the technology to transmit the data signals to extended distances. Composed of a specially designed 1-Port Source or 19" rack mountable Power Injector Chassis, Media Modules, and Power Supply modules, these devices seamlessly become a part of the network infrastructure. Input voltage: 110/220 VAC. Output voltage: 56 VDC.

PART NO.	DESCRIPTION	SLOTS OCCUPIED	QTY. OF SUPPORTED PoE POWERED DEVICES†		FIBER TYPE	OPERATING TEMPERATURE
			PoE Ports	PoE+ Ports		
81000960	1-Port Source	N/A	1	1	OS2	-40 to +50 C
81000463	1U Bracket (supports two 1-port sources)	N/A	2	2	N/A	N/A
81000569	2U Power Chassis (6 Slots Available)	N/A	N/A	N/A	N/A	N/A
81000568	4U Power Chassis (12 Slots Available)	N/A	N/A	N/A	N/A	N/A
81000215	Power Supply Module	2	12	8	N/A	0 to +40 C
81001262	4-Port Media Module, LC	1	4	4	OS2	0 to +40 C
81000190	Blanking Panel	1	N/A	N/A	N/A	N/A

†Remote End Devices must be present to provide PoE.



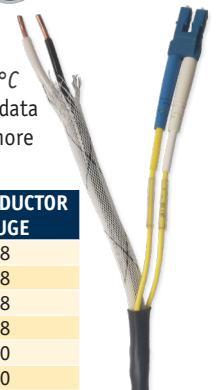
ONEREACH CABLE ASSEMBLIES (OCA)

The OneReach Cable Assembly (OCA) is composed of CL3P-OF or CL3R-OF rated PLTC-OF composite copper/fiber cables that support power and data transmission within a single jacket. These cables combine 12 AWG solid conductors with either tight-buffered (2-strand) or loose tube (4 or more strands) optical fiber cable designs, and support 1- or 2- or 4-port devices with a complete array of termination options.

Operating Temperature: -40°C to +75°C

PART NO.‡	DESCRIPTION	# OF FIBERS	FIBER TYPE	CONDUCTOR COUNT	REQUIRED M8 PIGTAIL	M8 CONDUCTOR GAUGE
BHCRO2A02D44FFNNPzzzz	1-Port LC Duplex 12 AWG OCA, Riser	2	OS2	2	11099456	18
BHCP02A02D44FFNNPzzzz	1-Port LC Duplex 12 AWG OCA, Plenum	2	OS2	2	11099456	18
BACRO4A02D44FFNNPzzzz	2-Port LC Duplex 12 AWG OCA, Riser	4	OS2	2	11099456	18
BACP04A02D44FFNNPzzzz	2-Port LC Duplex 12 AWG OCA, Plenum	4	OS2	2	11099456	18
BACRO8A04D44FFNNPzzzz	4-Port LC Duplex 12 AWG OCA, Riser	8	OS2	4	11099453	20
BACP08A04D44FFNNPzzzz	4-Port LC Duplex 12 AWG OCA, Plenum	8	OS2	4	11099453	20

‡zzzz is the length of the assembly, in feet, with leading zeros as needed; it must be four digits total.



REMOTE PoE PORTS

Remote devices mount in enclosures and provide data and power to network devices such as security cameras, WAPs, and access control. Powered via the M8 pigtail connector, they provide 802.3 compliant devices with data and/or power. They are available in two maximum power levels, PoE+ and HPoE (non-standard, max 60 W).

PART NO.	DESCRIPTION	QTY. OF SUPPORTED POWERED DEVICES	FIBER TYPE	OPERATING TEMP (°C)
81000959	1-Port Remote HPoE (60 W)	1	OS2	-40 to +70
81000961	1-Port Remote PoE+	1	OS2	-40 to +70
81001263	2-Port Remote PoE+	2	OS2	-40 to +70
81001264	4-Port Remote PoE+	4	OS2	-40 to +70



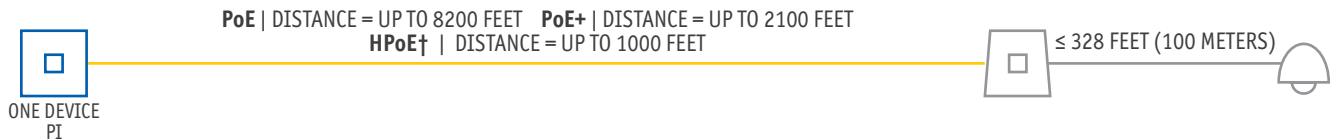
SINGLE-MODE FIBER SYSTEM EXAMPLES

LEGEND

-  WIRELESS ACCESS POINT
-  PoE, PoE+ OR HPoE†, 1-PORT REMOTE
-  PoE OR PoE+ 2-PORT REMOTE
-  PoE OR PoE+ 4-PORT REMOTE
-  SECURITY CAMERA

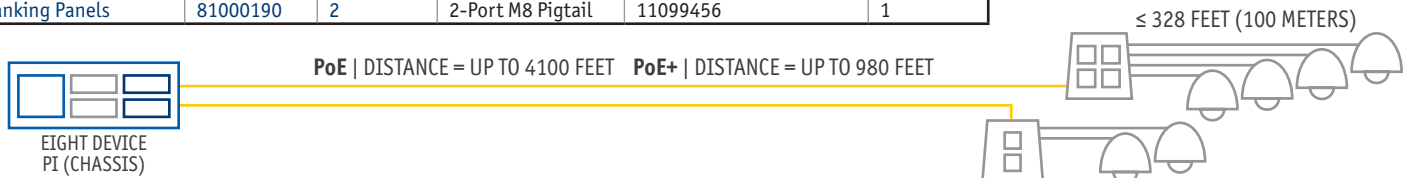
ONE SECURITY CAMERA INSTALLED ALONG A WALKING TRAIL

PI			ONEREACH CABLE ASSEMBLY (zzzz = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
1-Port Source	81000960	1	1-Port 12 AWG OCA	BHCP02A02D44FFNNPzzzz	1	1-Port Remote	81000959	1
1U Mounting Bracket	81000463	1	M8 Pigtail	11099456				



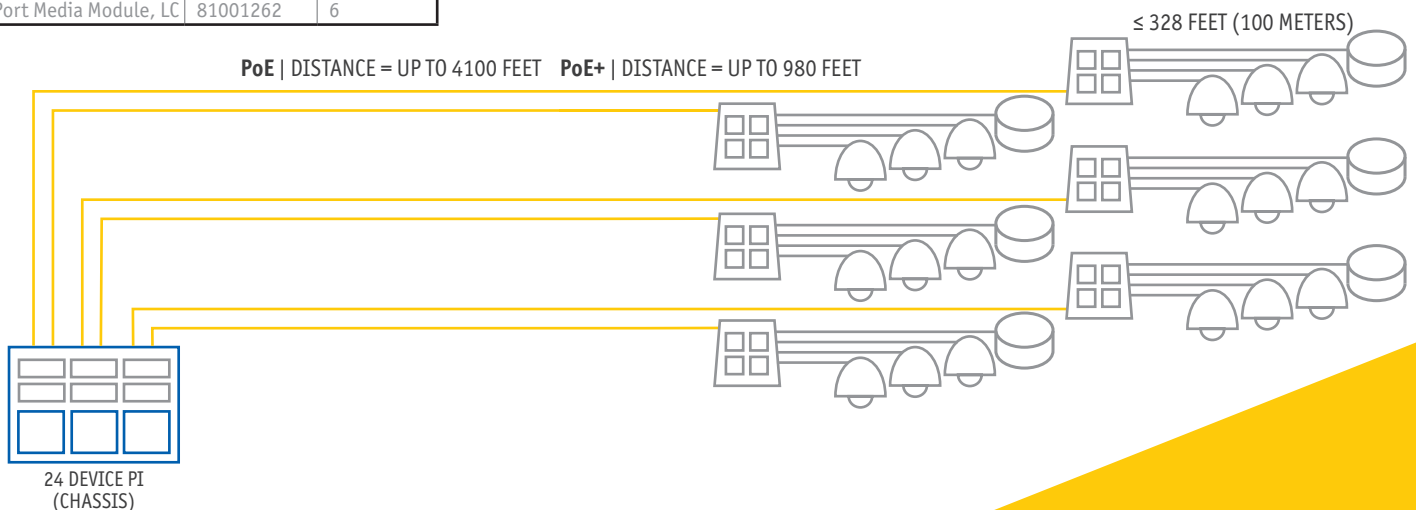
SIX SECURITY CAMERAS INSTALLED IN A SMALL PARKING AREA:

PI			ONEREACH CABLE ASSEMBLY (zzzz = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
2U Power Chassis	81000569	1	4-Port 12 AWG OCA	BACR08A04D44FFNNPzzzz	1	4-Port Remote	81001264	1
Power Supply Module	81000215	1	4-Port M8 Pigtail	11099453	1	2-Port Remote	81001263	1
4-Port Media Module, LC	81001262	2	2-Port 12 AWG OCA	BACR04A02D44FFNNPzzzz	1			
Blanking Panels	81000190	2	2-Port M8 Pigtail	11099456	1			



EIGHTEEN SECURITY CAMERAS AND SIX WIRELESS ACCESS POINTS INSTALLED IN A MULTI-STORY PARKING STRUCTURE:

PI			ONEREACH CABLE ASSEMBLY (zzzz = length in ft)			RPP		
NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D	NAME	PART NO.	NO. REQ'D
4U Power Chassis	81000568	1	4-Port 12 AWG OCA	BACR08A04D44FFNNPzzzz	6	4-Port Remote	81001264	6
Power Supply Module	81000215	3	M8 Pigtail	11099453	6			
4-Port Media Module, LC	81001262	6						



† HPoE is proprietary to the OneReach solutions and is not 802.3bt standards compliant.