

Hybrid Cable Assemblies

Hybrid Cable Assemblies provide the interconnection of power and fiber between a “source” and “remote” location in powered network systems. This essentially provides self powering security cameras, wireless access points and other PoE type devices that are at a remote location from the power source at distances in excess of normal PoE limits. These indoor/outdoor rated cables are designed to be used as part of the Chameleon system and are compatible with the Power Patch Panel and GatorLink product lines. The cables are made with various fiber counts and wire gauges as required to provide the distance, port count and PoE power levels for most applications.



KEY FEATURES

- AVAILABLE WITH 2, 8, OR 12 FIBERS IN OM3 OR OS2
- WIRE GAUGE AVAILABLE IN 2x18AWG, 2x12AWG AND 4x12AWG
- FIBER CONNECTORS AVAILABLE AS STANDARD LC & MTP OR AS A HYBRID (COPPER/FIBER) LC & MPO
- COPPER CONDUCTORS AVAILABLE WITH M8 CONNECTORS, UNTERMINATED, OR WITH HYBRID FIBER/COPPER CONNECTORS
- COMBINES POWER AND COMMUNICATION IN A SINGLE CABLE RUN
- SUPPORTS PoE DISTANCES UP TO 5KM
- INDOOR/OUTDOOR, CL3R-OF RATED CABLE

Typical Interconnections



MTP & bare copper conductors connect to rear of a Power Patch Panel

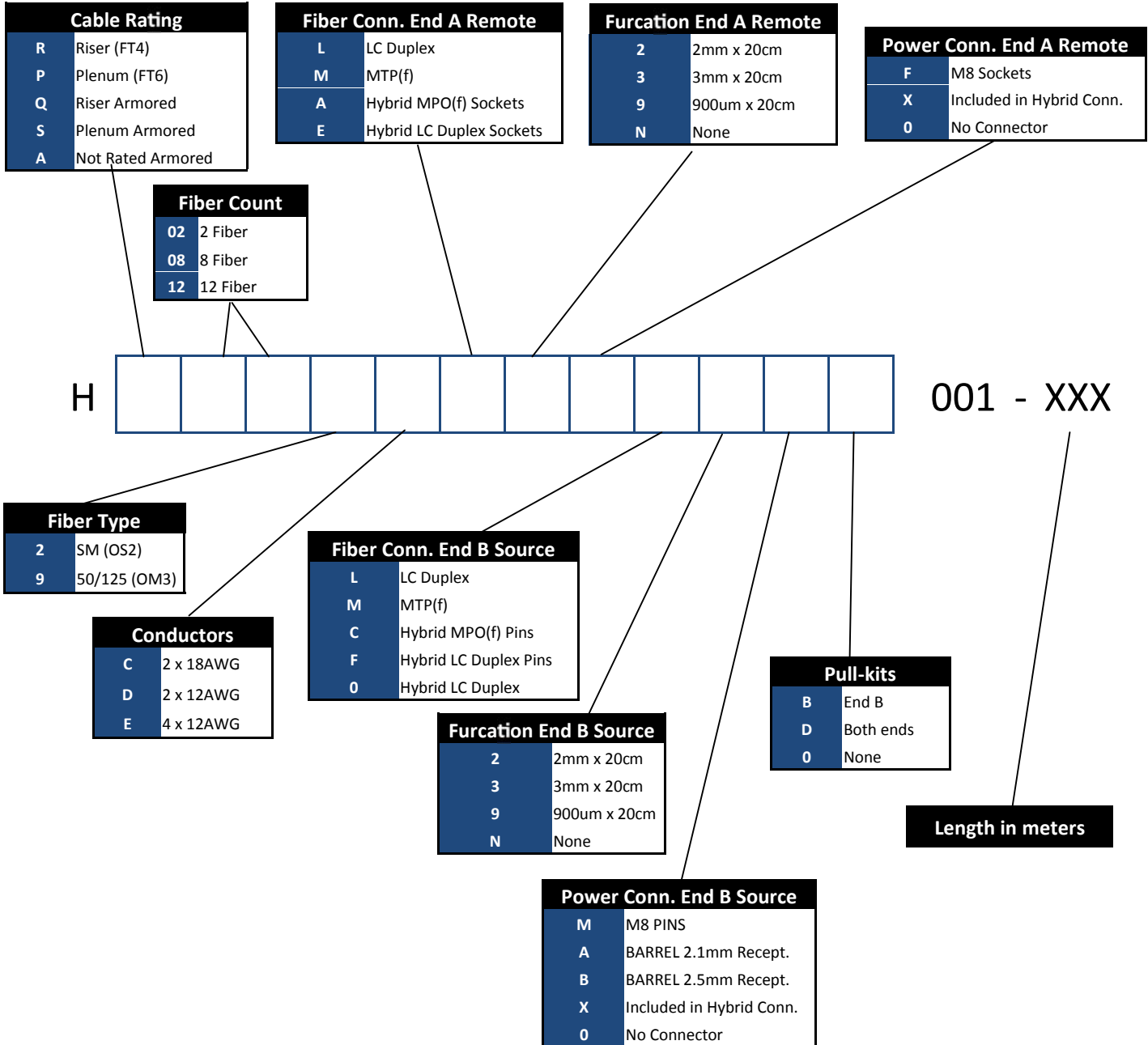


Hybrid LC/copper connector connects to a single port remote outdoor GatorLink



LC & M8 copper conductors connect to a single port remote indoor GatorLink

Ordering Information



Example cable assembly part numbers shown below for reference.

HR029DENXL200001-300 (OM3 2F/2x12AWG IN/OUT RISER CABLE, LC(hybrid) - LC(std), 300 Meters

HR029CENX0200001-250 (OM3 2F/2x18AWG IN/OUT RISER CABLE, LC(hybrid) - BLUNT, 250 Meters

Contact customer service for help determining your specific cable requirements

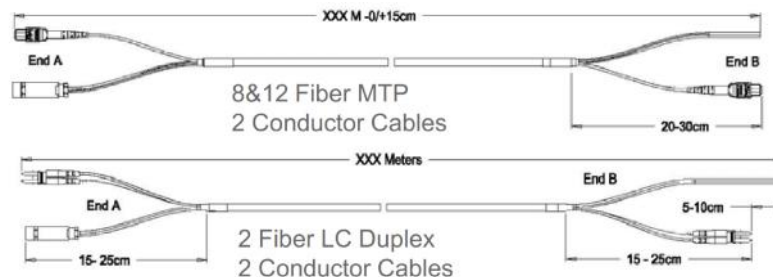
Fiber Connections Inc - 1-800-353-1127

www.fiberc.com

Specifications

Product Type	Characteristic	Optical Performance				Electrical Performance		
		OM3		SM		2X18 AWG	2X12 AWG	4X12 AWG
		850nm	1300nm	1310nm	1550nm			
2 fiber tight buffered breakout style cable	Attenuation	3.0dB/km	1.0dB/km	0.7dB/km	0.7dB/km			
	100M TX distance		2000m	5000m				
	1 GbE TX distance	600m		5000m				
8-12 fiber aramid loosetube style cable	Attenuation	3.0dB/km	1.0dB/km	0.4dB/km	0.3dB/km			
	100M TX distance		2000m	5000m				
	1 GbE TX distance	600m		5000m				
Optical Connector Loss	LC	<0.4dB						
	MTP	<0.5dB						
Low Voltage	Ohms/km each wire							
Temperature	Operating	-40 to +70C						
	Installation	-10 to +70C						
Bend Radius Minimum	Installation					13cm	15cm	19cm
	Long Term					9cm	10cm	13cm

Hybrid Cables
Shown with M8 and Pigtail copper ends



Length Suggestions for Chameleon System

Hybrid Cable Powered Network Link Distance Table (when used with Chameleon System Products) (meters between source and remote locations)	PoE Level	Wire Gauge	1 Port Links		4 Port Links		6 Port Links	
			OM3	SM	OM3	SM	OM3	SM
Distance shown for "100Base/1000Base" operating speeds	Non PoE links	2X18 AWG	2000m/600m	5000m/5000m	1300m/600m	1300m/1300m	900m/900m	
		2X12 AWG			2000m/600m	5000m/5000m	2000m/600m	3500m/3500m
		4X12AWG					5000m/5000m	5000m/5000m
PoE (15W PSE)	2X18 AWG	600m/600m		150m/150m		100m/100m		
	2X12 AWG	2000m/600m	250m/250m	600m/600m		400m/400m		
	4X12AWG		475m/475m	1200m/600m	1200m/1200m	800m/600m	800m/800m	
PoE+ (30W PSE)	2X18 AWG	165m/165m		40m/40m		25m/25m		
	2X12 AWG	650m/600m	650m/650m	165m/165m		100m/100m		
	4X12AWG	1100m/600m	1100m/1100m	320m/320m		200m/200m		
PoE++ (60W PSE)	2X18 AWG	85m/85m						
	2X12 AWG	310m/310m						
	4X12AWG	650m/600m	650m/650m					

Please contact customer service for additional information.
Custom configurations available upon request.
All specifications are subject to change