FUTURE READY SOLUTIONS® FIBER OPTIC REFERENCE GUIDE

33M | 108FT



TY	PI	CAL	AP	PLI	CA	TI	ONS
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10 GBPS MAX LINK LENGTH

25 GBPS MAX LINK LENGTH

AV & USB EXTENDERS*				
BROADBAND INTERNET				
BUILDING NETWORKING				-
BUILDING PREWIRE		-		-
BUILDING TO BUILDING		-		-

300M | 984FT

70M | 230FT

400M | 1312FT

100M | 330FT

82M | 269FT







DUPLEX 2 STRANDS







400M | 1312FT

100M | 330FT

10KM | 6 MILES +

10KM | 6 MILES +



10KM | 6 MILES +

10KM | 6 MILES +





^{*}Always consult the manufacturer specifications before choosing a cable type. Extenders are often specific to multimode or single mode fiber.

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	sc	LC	ST	FC	MPO
COUPLING FORMAT	SNAP-ON	SNAP-ON	TWIST-ON	SCREW-ON	PUSH-PULL
STRANDS PER CONNECTOR	1	1	1	1	UP TO 24
MULTIMODE COMPATIBLE					
SINGLE MODE COMPATIBLE					
TYPICAL APPLICATIONS	BROADBAND INTERNET OLDER ELECTRONICS AV EXTENDERS PATCH PANELS	MODERN ELECTRONICS TRANSCEIVERS AV EXTENDERS PATCH PANELS	OLDER ELECTRONICS OLDER PATCH PANELS	BROADCAST ELECTRONICS	HIGH-DENSITY DATA CENTERS
	MULTIMODE	MULTIMODE	MULTIMODE	MULTIMODE	MULTIMODE
	MULTIMODE	MULTIMODE	MULTIMODE	MULTIMODE	MULTIMODE
TYPICAL COLOR CODES	MULTIMODE	MULTIMODE	MULTIMODE	MULTIMODE	MULTIMODE
	SINGLE MODE UPC	SINGLE MODE UPC	SINGLE MODE UPC	SINGLE MODE UPC	SINGLE MODE UPC
	SINGLE MODE APC	SINGLE MODE APC	SINGLE MODE APC	SINGLE MODE APC	SINGLE MODE APC







ANGLED (APC) CONNECTORS

APC connectors are typically dark green and feature an 8° angled end face. The angled construction provides less overall loss and is ideal for outside plant, demarcation wiring, internet broadband and other high optical wavelength applications.

Before the modem, use APC connectors. After the modem, use UPC connectors.

TROUBLESHOOTING CONNECTIONS

Check connection polarity. If using a duplex connection (two strands), swap the connections. Most fiber signals rely on separate transmit and receive paths.

Check your connectors. Is a connector loose? Often re-terminating solves the issue.

Check your connections. Is a connection or patch point loose or dirty? How many inline connections are in the run? Too many connections can cause too much signal loss.

Clean your connections. Remove dirt, dust and oil from fingerprints with pen-style cleaners or alcohol wipes.

Check for breaks. Identify cable damage using a VFL or OTDR cable tester. When identified, re-splice the cable.

Check your cable distance. Multimode fiber has a typical maximum distance of 300m / 1000 feet. Longer runs require single mode fiber.

Check compatibility. Some devices, especially AV over fiber extenders, are specific to either multimode or single mode fiber. Ensure the installed cable matches the device requirements.



