

Wi-Fi untethers people and their devices. Without having to plug into an Ethernet port, information and connection become mobile.

Wi-Fi is the name given to IEEE 802.11 wireless protocols, which launched in 1997. The technology uses available spectrum within the UHF band, as well as unlicensed 900 MHz, 2.4 GHz, 5 GHz, 6 GHz and 60 GHz bands.

New wireless standards continue to evolve to support faster connections for more devices at once. Each change brings faster speeds, lower latency and better user experiences.

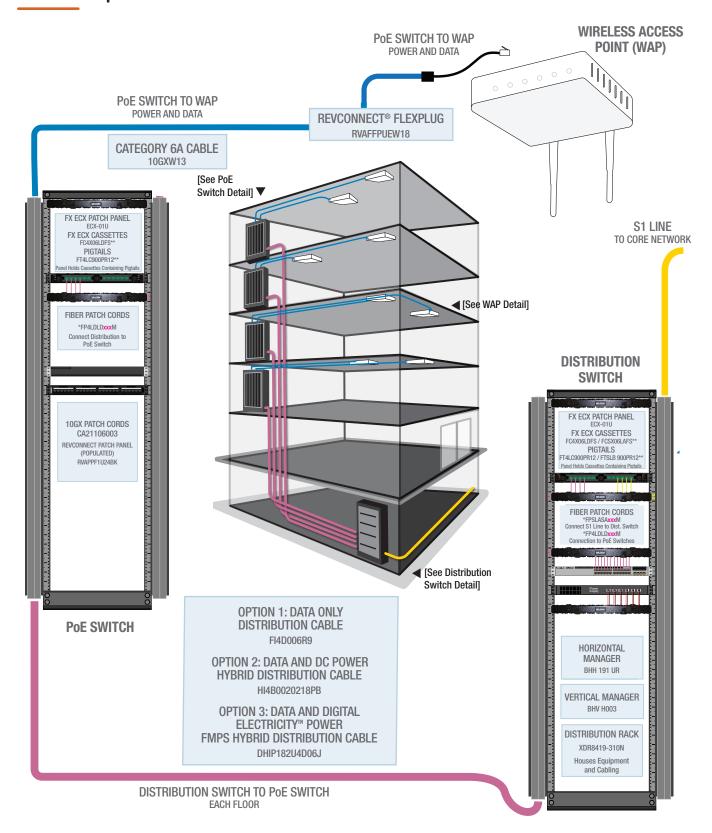
For example, while Wi-Fi began in 1997 with data speeds of 2 Mb/s in the 2.4 GHz and 5 GHz unlicensed bands, Wi-Fi 6, or 802.11ax, is the latest Wi-Fi standard today. It's designed to support higher data rates with peak Gigabit speeds in crowded spaces, such as airports, stadiums, high-rise hotels, multi-family housing, entertainment venues and other dense environments.

Trouble-free performance of a Wi-Fi network can only be guaranteed by using the correct wired infrastructure to support it.

Belden offers a full suite of copper and fiber cable and connectivity systems that support every type of technology you'll need now and in the future. Learn more about how Belden is uniquely positioned to provide reliable products and services for your jobs. Visit belden. com/Solutions/Smart-Building-Solutions.

belden.com (01

Wi-Fi Example



The system configurations shown are illustrative. We offer a variety of options to meet your specific use case and project constraints. Please reach out to Belden, and our solutions consultants will gladly assist you in configuring the systems you need.

belden.com (02

Wi-Fi Example Checklist

	Belden Part Number	Description
	FI4D006P9	FX Indoor OM4 Distribution Tight Buffer, 6f OFNP, Erika Violet Jacket
	FD4D006P9	FX Indoor/Outdoor OM4 Distribution Tight Buffer, 6f OFNP, Black Jacket
	FI4D006A9	FX Indoor OM4 Distribution Tight Buffer, 6f OFCP, AIA, Erika Violet Jacket
Fiber Cables	FD4D006A9	FX Indoor/Outdoor OM4 Distribution Tight Buffer, 6f OFCP, AIA, Black Jacket
Pigtails	FXFSTOSPL	FX Fusion Splicer Kit
	FT4LC900PR12	FX Field-Term Pigtail, OM4, LC Simplex, Tight Buffer, 900 μm, 12f, 2 m
	FT4SC900PR12	FX Field-Term Pigtail, OM4, SC Simplex, Tight Buffer, 900 μm, 12f, 2 m
	FXFUHS900AB25	Heat Shrink Protector Sleeves, 900 μm to 900 μm, 2.5 mm dia x 60 mm, 25pcs
	FP4LDLD002M	FX Patch Cord, OM4, LC Duplex - LC Duplex, 2 m, A-to-B
	FP4SDSD002M	FX Patch Cord, OM4, SC Duplex - SC Duplex, 2 m, A-to-B
Patch Cords	FP4LDSD002M	FX Patch Cord, OM4, LC Duplex - SC Duplex, 2 m, A-to-B
	ECX-01U	FX ECX 1U Patch Panel Housing
	ECX-02U	FX ECX 2U Patch Panel Housing
	ECX-04U	FX ECX 4U Patch Panel Housing
	ECX-BRKTMNT-0	FX ECX 4U Rack-Mounting Bracket, Flush
atch Panels	ECX-LOCKKIT	FX ECX Door Lock Kit
Cassettes	FC4X06LDFS	FX ECX Splice Cassette, OM4, LC Duplex, 6 Ports, 12f, Erika Violet
	FC4X12LDFS	FX ECX Splice Cassette, OM4, LC Duplex, 12 Ports, 24f, Erika Violet
	FC4X03SDFS	FX ECX Splice Cassette, OM4, SC Duplex, 3 Ports, 6f, Erika Violet
	FC4X06SDFS	FX ECX Splice Cassette, OM4, SC Duplex, 6 Ports, 12f, Erika Violet
Wall- Mount Boxes	FW4MBS06LD	FX Multi-Box Field Term, OM4, 12f, LC Duplex, with Pigtails
	FW4MBF06LD	FX Multi-Box Field Term, OM4, 12f, LC Duplex, w/out Pigtails
	FW4MBP06LD	FX Multi-Box Field Term, OM4, 12f, LC Duplex, Pre-term
	DEIP162U	FMPS Copper Only, 16 AWG, 2 Cu Pairs, Plenum
	DEIP182U	FMPS Copper Only, 18 AWG, 2 Cu Pairs, Plenum
	DHIP162U4D06J	FMPS Hybrid, 16 AWG, 2 Cu Pairs, 6f, OM4, Distribution, Plenum
FMPS Cables	DHIP182U4D06J	FMPS Hybrid, 18 AWG, 2 Cu Pairs, 6f, OM4, Distribution, Plenum
-	HI4B0020216PB	Indoor Hybrid, OM4, Breakout Cable, 2f, 2 Cu Pairs, 16 AWG, CMP-OF
Hybrid Copper-Fiber Cables	HI4B0020218PB	Indoor Hybrid, OM4, Breakout Cable, 2f, 2 Cu Pairs, 18 AWG, CMP-OF
	XDR8419-3122836	Four-Post Distribution Rack
	XDR8419-310N	Two-Post Distribution Rack
	BHH 191 UR	Horizontal Manager
Racks and Managers	BHV H003	Vertical Manager

BELDIEN © 2024 | Belden and its affiliated companies claim and reserves all rights to its graphic images and text, trade names and trademarks, logos, service names, and similar proprietary marks, and any other intellectual property rights associated with this publication. BELDEN and other distinctive identifiers of Belden and its affiliated companies as used herein are or may be pending or registered or unregistered trademarks of Belden, or its affiliated, in the United States and/or other jurisdictions throughout the world. Belden's trade names, trademarks, logos, service names, and similar proprietary marks shall not be reprinted or displayed without Belden's or its affiliated companies' permission and/or in any form inconsistent with Belden's business interests. Belden reserves the right to demand the discontinuation of any improper use at any time.

WI-FI-2024-05-AG-V1-EN belden.com