Genesis® Series Cable

Honeywell

Category Cable Selection Guide

Honeywell offers a series of high-performing network category cables to provide optimal signal speed and integrity throughout a wide range of demanding applications. Keeping up with rapidly-evolving technology and data transfer requirements, while anticipating future needs, Honeywell network cables provide solutions for today with the ability to adapt to the future. Picking the right cable for a job is an important decision, and with the right solutions to choose from, Honeywell makes it easy to select the right network cable for you.

Category Cable Applications

The range of network category cables is used for different applications across a variety of industries. Below are some specific examples.

Confidential: government, military, gaming industry

Whenever transmitted data is highly confidential, only shielded systems offer the necessary, recommended protection.

5e
shielded

6+
shielded

Mission Critical: data centers, labs, financial institutions, industrial, hospitals

When transmitted data is massive and portions are critical, a wide variety of shielded or unshielded cable could be used to fulfill adequate needs for bandwidth and power.

5e   **6**   **6+**   **6A**   **5e**
shielded

6+
shielded

Enterprise: large office buildings, universities, telecom rooms, shopping malls, stadiums

The traffic for these applications is extremely high-volume, and only cables with the greatest bandwidth will keep signals from jamming or being lost altogether. Unshielded cable options can easily provide the required bandwidth and power to meet these demands.

5e   **6**   **6+**   **6A**

Small Business & Residential: smaller office buildings, single family homes, apartments
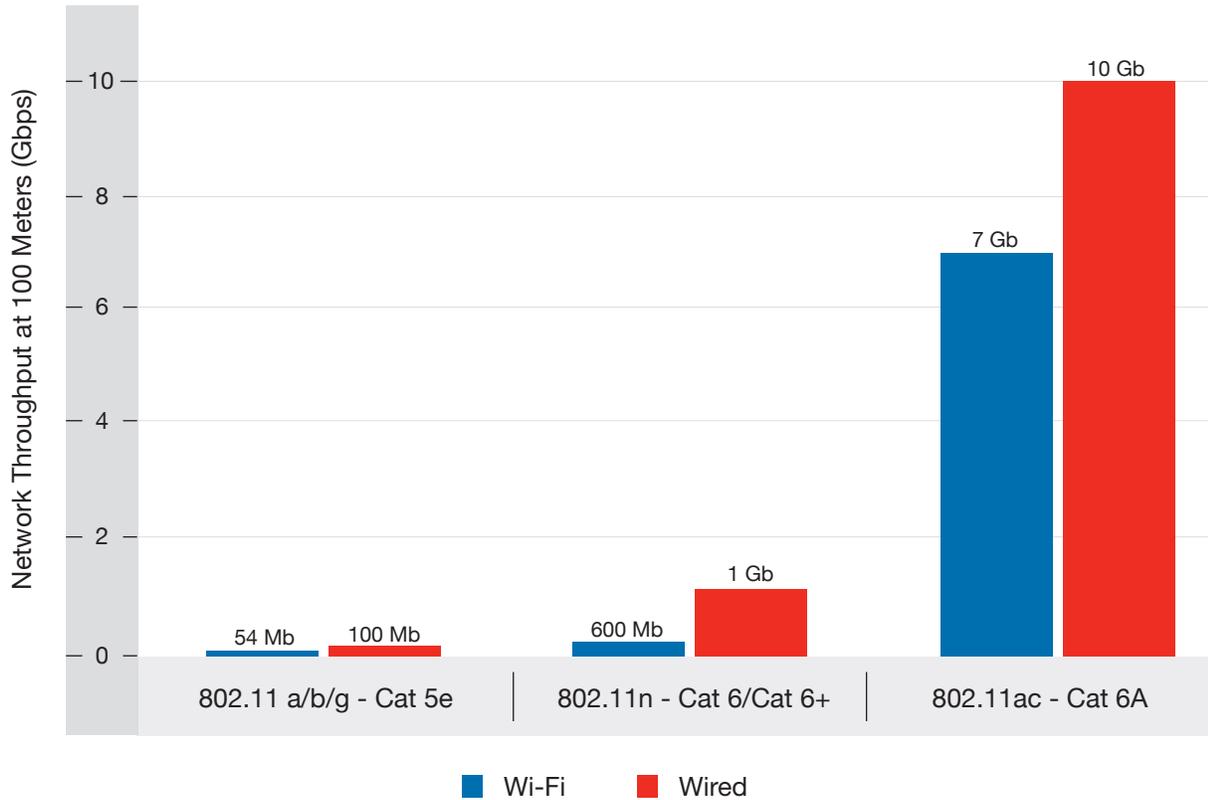
Economic solutions that cover basic bandwidth and power needs are sufficient for these lower-volume and personal uses.
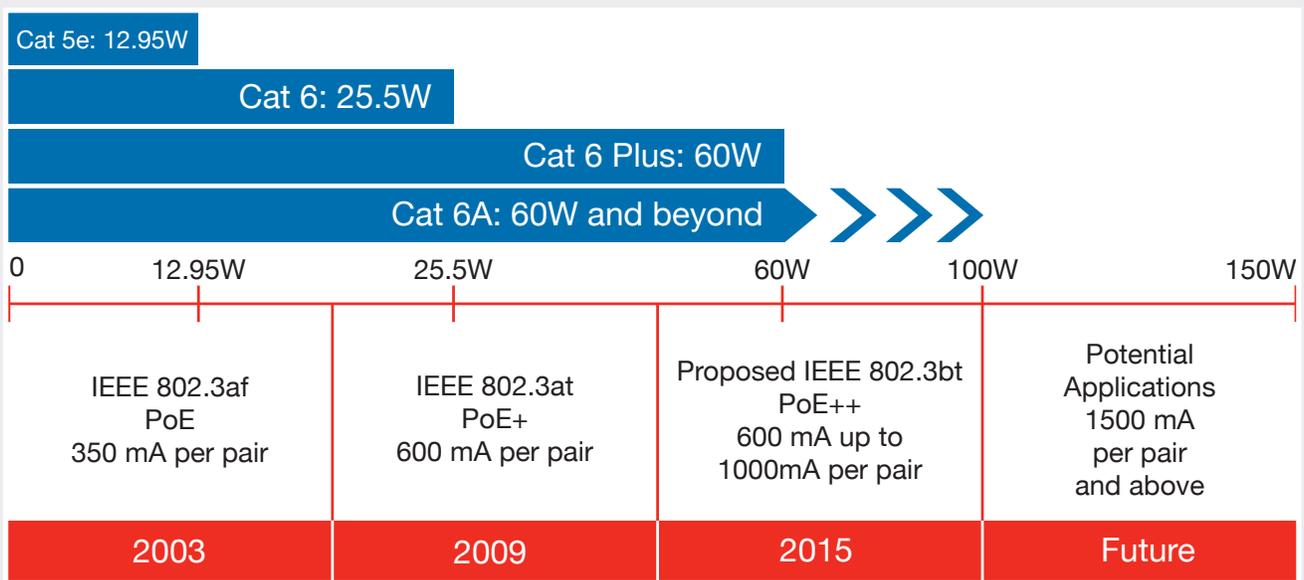
5e   **6**

Network Throughput — Wi-Fi® Versus Wired Bandwidth

Depending on the amount of data being transferred in a given environment, increased bandwidth is required for maximizing signal speed and performance. The network cables and their corresponding bandwidth capabilities shown in the chart below, satisfy a range of applications.

Network Throughput at 100 Meters (Gbps)

	802.11 a/b/g - Cat 5e	802.11n - Cat 6/Cat 6+	802.11ac - Cat 6A
Wi-Fi	54 Mb	600 Mb	7 Gb
Wired	100 Mb	1 Gb	10 Gb

■ Wi-Fi ■ Wired

Maximum POE Power at Powered Device

With the rapidly increasing number of Power over Ethernet (PoE) devices, it's important to have network cables capable of handling the rising demands. View the range of network cables and their corresponding PoE capacities below.

Cat 5e: 12.95W
Cat 6: 25.5W
Cat 6 Plus: 60W
Cat 6A: 60W and beyond

0   12.95W   25.5W   60W   100W   150W

IEEE 802.3af PoE 350 mA per pair	IEEE 802.3at PoE+ 600 mA per pair	Proposed IEEE 802.3bt PoE++ 600 mA up to 1000mA per pair	Potential Applications 1500 mA per pair and above
2003	2009	2015	Future

Honeywell Network Cable Options

Product Code	Description	AWG	# Pairs	Bandwidth	PoE Limit	INSUL	Jacket	Center Spline	Nom. O.D.	Avg. Wt. (lbs)	Available Pkg.†	Available Colors‡
Cat 5e Unshielded												
6330	General purpose-CM listed (tested to 100 MHz)	24	4	100 Mb (100m) 1 Gb (30m)	802.3af/PoE (12.95W)	HDPE	PVC	NA	0.200	19	11	01, 06, 09
5078	Riser rated CMR, CL2R, FT4 listed (tested to 350 MHz)	24	4	100 Mb (100m) 1 Gb (30m)	802.3af/PoE (12.95W)	HDPE	PVC	NA	0.200	20, 20	11, 21	01, 02, 03, 04 05, 06, 08, 09, 10, 11, 13
5088	Plenum rated CMP, CL2P, FT6 listed (tested to 350 MHz)	24	4	100 Mb (100m) 1 Gb (30m)	802.3af/PoE (12.95W)	FEP	low smoke PVC	NA	0.200	23, 23, 13	11, 21, 55	01, 02, 03, 04, 05 06, 08, 09, 11
5090	Direct burial (tested to 350 MHz)	24	4	100 Mb (100m) 1 Gb (30m)	802.3af/PoE (12.95W)	HDPE	LLDPE	NA	0.200	24, 13	10, 50	08
Cat 5e Shielded												
5178	Riser rated CMR, CL2R, FT4 listed (tested to 350 MHz)	24	4	100 Mb (100m) 1 Gb (30m)	802.3af/PoE (12.95W)	HDPE	PVC	NA	0.240	28	10	01, 06
5388	Plenum rated CMP, CL2P, FT6 listed (tested to 350 MHz)	24	4	100 Mb (100m) 1 Gb (30m)	802.3af/PoE (12.95W)	FEP	low smoke PVC	NA	0.240	33	10	01, 06
Cat 6 Unshielded												
6360	Riser rated CMR, CL2R, FT4 listed (tested to 350 MHz)	23	4	1 Gb (100m) 10 Gb (30m)	802.3at/PoE+ (25.5W)	HDPE	PVC	NA	0.210	24, 24	11, 21	01, 02, 06, 08
6361	Plenum rated CMP, CL2P, FT6 listed (tested to 350 MHz)	23	4	1 Gb (100m) 10 Gb (30m)	802.3at/PoE+ (25.5W)	FEP	low smoke PVC	NA	0.210	25, 25	11, 21	01, 02, 06, 08
Cat 6+ Unshielded												
5092	Riser rated CMR, CL2R, FT4 listed (tested to 500 MHz)	23	4	1 Gb (100m) 10 Gb (30m)	802.3bt/PoE++* (up to 60W)	HDPE	PVC	FRPE	0.240	25, 25, 13	10, 21, 61	01, 02, 03,04, 05, 06, 08, 09, 10, 11
5102	Plenum rated CMP, CL2P, FT6 listed (tested to 500 MHz)	23	4	1 Gb (100m) 10 Gb (30m)	802.3bt/PoE++* (up to 60W)	FEP	low smoke PVC	FRPE	0.240	28, 28, 15	10, 21, 61	01, 02, 03, 05, 06, 08, 09, 10
Cat 6+ Shielded												
5192	Riser rated CMR, CL2R, FT4 listed (tested to 500 MHz)	23	4	1 Gb (100m) 10 Gb (30m)	802.3bt/PoE++* (up to 60W)	HDPE	PVC	HDPE	0.280	35	10	01, 06
5392	plenum rated CMP, CL2P, FT6 listed (tested to 500 MHz)	23	4	1 Gb (100m) 10 Gb (30m)	802.3bt/PoE++* (up to 60W)	FEP	low smoke PVC	FEP	0.280	45	10	01, 06
Cat 6A Unshielded												
5193	Riser rated CMR, CL2R, FT4 listed (tested to 660 MHz)	23	4	10 Gb (100m) 40 Gb (30m)	802.3bt/PoE++* (60W & above)	HDPE	PVC	HDPE	0.350	44	10	01, 06
5393	plenum rated CMP, CL2P, FT6 listed (tested to 660 MHz)	23	4	10 Gb (100m) 40 Gb (30m)	802.3bt/PoE++* (60W & above)	FEP	low smoke PVC	FRPE	0.320	45	10	01, 06

† P802.3BT IEEE draft standard   ‡ Color codes listed in red may have longer lead time or larger minimum order quantity requirements

All Genesis® Series Cable products have an eight digit product number composed of:

AAAA ⌣ Product Code   BB ⌣ Pkg Code   CC ⌣ Color Code

BB: Packaging Code†
- 10/1000´ Reel
- 11/1000´ Pull Box
- 21/1000´ Reel in-a-Box
- 50/500´ Reel
- 55/500´ Pull Box
- 61/500´ Reel in-a-Box

CC: Color Code‡
- 01/White
- 02/Yellow
- 03/Orange
- 04/Red
- 05/Green
- 06/Blue
- 08/Black
- 09/Gray
- 10/Purple
- 11/Pink
- 13/Beige

For more information:
www.honeywellcable.com

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