



Recommendations for Home Theater and High-End Audio

We get many requests to recommend various types of cable for home theater and high-end audio installations. Since Belden makes over five thousand standard products, and in the face of ever-changing technology, it is very difficult, even for the professional, to make correct choices.

So we have put together this suggested guide of wire and cable choices which, we feel, are particularly suited to these home applications. For more details on each cable, consult the appropriate [catalog](#) mentioned with each cable, or contact a Belden distributor. Connectors for Belden Coax/Twinax and Triax cables may be found in our connector cross-reference.

Some of the cables mentioned cross over between some categories. For instance, all of the *digital* audio cables will easily handle *analog* audio, but not the other way around! It is always easier to use one kind of cable for many applications than different cables for each.

Signal	Type	Part	Description	Why this Cable?	Catalog
Analog Audio	Unbalanced	1865A	Miniature precision coax, stranded	Small (115"), very high quality. Flexible	Audio-Video
Analog Audio	Unbalanced	8241F	RG-59 sized standard video.	Very flexible, fits standard RCA's. Many jacket colors available	Audio-Video
Analog Audio	Unbalanced	1505F	Flexible RG-59 sized precision video.	Flexible, for analog or digital applications.	Audio-Video
Analog Audio	Unbalanced	1505A	RG-59 sized precision video	Fits some high quality RCA connectors. 10 colors	Audio-Video
Analog Audio	Unbalanced	1694A	RG-6 sized precision video.	Top-of-the-line. There are RCA's, but hard to find.	Audio-Video

Signal	Type	Part	Description	Why this Cable?	Catalog
				10 colors	
Analog Audio	Unbalanced	89259	All Teflon coax	Highly recommended on Internet newsgroups	Audio-Video
Analog Audio	Unbalanced	7790A	6 channel coax unbalanced snake, color coded inner jackets.	5.1 channel unbalanced interconnect.	New
Analog Audio	Balanced	1800F	Very flexible.	Super-low capacitance (13 pF/ft) super-high performance	Audio-Video
Analog Audio	Balanced	9451	Install-only industry standard.	Small (.135 O.D.) Cost effective. 10 colors	Audio-Video
Analog Audio	Balanced	1883A	Install only, smaller size.	Smaller, 10 colors.	Audio-Video
Analog Audio	Balanced	8778	6 channel 22 AWG snake	5.1 channel balanced interconnect.	Audio-Video
Analog Audio	Balanced	88778	6 channel 22 AWG all-Teflon snake.	5.1 channel balanced interconnect.	Audio-Video
Analog Audio	Balanced	1218B	6 channel 22 AWG low-cap individual-jacketed snake.	5.1 channel balanced interconnect.	Audio-Video
Analog Audio	Balanced	1511C	6 channel 24 AWG individual-jacketed snake.	5.1 channel balanced interconnect.	Audio-Video
Digital Audio	Unbalanced	1865A	Miniature precision coax, stranded	Very small (0.150") coax.	Audio-Video
Digital Audio	Unbalanced	1855A	Miniature precision video.	Very small (0.159") coax. mad BNC buy RCA's are available.	Audio-Video
Digital Audio	Unbalanced	1505A	RG-59 sized precision video	#1 most popular video cable in the world. Fits many RCA, BNC, and other connectors.	Audio-Video
Digital Audio	Unbalanced	1694A	RG-6 sized precision video.	#1 cable for television station high-definition upgrades. BNC and some RCA's available	Audio-Video

Signal	Type	Part	Description	Why this Cable?	Catalog
Digital Audio	Unbalanced	7787A	Miniature precision coax (1855A above) 3-coax.	5.1 channel interconnect, 2-channels per coax.	Audio-Video
Digital Audio	Unbalanced	7790A	6 channel coax, color-coded	5.1 channel (discrete) interconnect	Audio-Video
Digital Audio	Balanced	1800F	Very flexible	110 , specifically for AES/EBU patch cord or mic cable.	Audio-Video
Digital Audio	Balanced	1800A	Install only	110 , specifically for AES/EBU.	Audio-Video
Digital Audio	Balanced	9730	AES/EBU 3 channel snake (2 channel per pair mode), 100 ohms.	5.1 channel interconnect.	Audio-Video
Digital Audio	Balanced	89730	AES/EBU 3 channel snake (2-channel/pair mode), all Teflon, 100 ohms.	5.1 channel interconnect.	Audio-Video
Digital Audio	Balanced	9731	AES/EBU 6 channel snake, very low capacitance, 100 ohms.	5.1 channel interconnect.	Audio-Video
Digital Audio	Balanced	89731	AES/EBU 6 channel snake, very low capacitance, 100 ohms, all Teflon.	5.1 channel interconnect.	Audio-Video
Analog Video	Baseband	1865A	Miniature precision coax, stranded.	Any precision digital video cable will work fine for analog., Bigger is better. Intended for BNC but RCA's readily available.	Audio-Video
Analog Video	Baseband	1855A	Miniature precision coax. Analog/Digital.	Any precision digital video cable will work fine for analog. Bigger is better. Intended for BNC but RCA's readily available.	Audio-Video
Analog Video	Baseband	1505A	RG-59 sized precision video.	Any precision digital video cable	Audio-Video

Signal	Type	Part	Description	Why this Cable?	Catalog
			Analog/Digital.	will work fine for analog., Bigger is better. Intended for BNC but RCA's readily available.	
Analog Video	Baseband	1694A	RG-6 sized precision video. Analog/Digital.	RCA's do exist but made to fit BNC's	Audio-Video
Analog Video	Baseband	8281	Top-of-the-line in analog.	RCA's do exist but made to fit BNC's	Audio-Video
Analog Video	Broadband/ CATV/HDTV	1505A	RG-59 sized precision video	Tested and guaranteed to 3 GHz.	Audio-Video
Analog Video	Broadband/ CATV/HDTV	1694A	RG-6 sized precision video.	Tested and guaranteed to 3 GHz.	Audio-Video
Analog Video	Broadband/ CATV/HDTV	1829A	RG-6 Broadband BROADBAND ONLY.	Tested to 2.25 GHz specifically for HDTV/DBS.	Broadband/ CATV
Broadband/Data	Home Automation 1 x 1 Composite	7910A	One Series 6 coaxial cable Duobond Plus + One Cat 5e 4 pair bonded UTP cable.	Composite CATV/broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Broadband/Data	Home Automation 1 x 1 Composite	7911A	One Series 6 coaxial cable Duobond Plus + One Cat 5e 4 pair bonded UTP cable (Siamese).	Composite CATV/broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Broadband/Data	Home Automation 1 x 1 Composite	7912A	One Series 6 coaxial cable Duobond IV Quad shield + One Cat 5 4 pair UTP cable (Siamese).	Composite CATV/broadband with Category 5 data cable. Multi-purpose home automation install cable. Verified to Cat 5.	HomeChoice Brochure or Master Catalog
Broadband/Data	Home Automation 2 x 2 Composite	7876A	Two Series 6 coaxial cables Duobond Plus + Two Cat 5e 4 pair bonded UTP cables.	Composite CATV/broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to	HomeChoice Brochure or Master Catalog

Signal	Type	Part	Description	Why this Cable?	Catalog
				Cat 5e.	
Broadband/Data	Home Automation 2 x 2 Banana Peel®	7876S	Two Series 6 coaxial cables Duobond Plus + Two Cat 5e 4 pair bonded UTP cables.	Composite CATV/broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Broadband/Data/Fiber	Home Automation 2 x 2 x 2 Composite	7878A	Two Series 6 coaxial cables Duobond Plus + Two Cat 5e 4 pair bonded UTP cables + One 2-fiber LANLite Distribution cable.	Composite CATV/broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Broadband/Data/Fiber	Home Automation 2 x 2 x 2 Banana Peel®	7878S	Two Series 6 coaxial cables Duobond Plus + Two Cat 5e 4 pair bonded UTP cables + One 2-fiber LANLite Distribution cable.	Composite CATV/broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Broadband/Data	Home Automation 2 x 2 Composite	7913A	Two Series 6 coaxial cables Duobond IV Quad shield + Two Cat 5 4 pair UTP cable.	Composite CATV/Broadband with Category 5e data cable. Multi-purpose home automation install cable. Certified to Cat 5.	HomeChoice Brochure or Master Catalog
Broadband/Data	Home Automation 2 x 2 Banana Peel®	7913S	Two Series 6 coaxial cables Duobond IV Quad shield + Two Cat 5e 4 pair UTP cables.	Composite CATV/Broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Broadband/Data/Fiber	Home Automation 2 x 2 x 2	7914A	Two Series 6 coaxial cables Duobond IV Quad shield + Two Cat 5 4 pair UTP cable + One 2-fiber LANLite Distribution cable.	Composite CATV/Broadband with Category 5e data cable. Multi-purpose home automation install cable. Verified to Cat 5.	HomeChoice Brochure or Master Catalog

Signal	Type	Part	Description	Why this Cable?	Catalog
Broadband/Data/Fiber	Home Automation 2 x 2 x 2 Banana Peel®	7914S	Two Series 6 coaxial cables Duobond IV Quad shield + Two Cat 5e 4 pair UTP cables + One 2-fiber LANLite Distribution cable.	Composite CATV/Broadband with Category data cable. Multi- purpose home automation install cable. Verified to Cat 5e.	HomeChoice Brochure or Master Catalog
Keypad/Audio & Video	Home Automation Composite 1 Cat 5e + 4C x 16 AWG	7949A	One Cat 5e 4 pair bonded UTP cable + Four 16 AWG conductors.	Composite Keypad Audio & Video Cable. Multi-purpose home automation install cable.	HomeChoice Brochure or Master Catalog
Keypad/Audio & Video	Home Automation Composite 1 Cat 5 + 4C x 16 AWG	7950A	One Cat 5 4 pair UTP cable + Four 16 AWG conductors.	Composite Keypad Audio & Video Cable. Multi-purpose home automation install cable.	HomeChoice Brochure or Master Catalog
Keypad/Audio & Video	Home Automation Composite 1 Cat 5 + 4C x 18 AWG	7951A	One Cat 5 4 pair UTP cable + Four 18 AWG conductors.	Composite Keypad Audio & Video Cable. Multi-purpose home automation install cable.	HomeChoice Brochure or Master Catalog
Keypad/Audio & Video	Home Automation Composite 1 Cat 5 + 4C x 14 AWG	7952A	One Cat 5 4 pair UTP cable + Four 14 AWG conductors.	Composite Keypad Audio & Video Cable. Multi-purpose home automation install cable.	HomeChoice Brochure or Master Catalog
Speaker Cable	Zip	9718	12 AWG	Easier install.	Audio-Video
Speaker Cable	Twisted/ jacketed	8477	12 AWG	More rugged	Audio-Video
Speaker Cable	Teflon Flat cable	8R28064	64 silver-coated copper 28 AWG conductors in FEP Teflon		Flat cable or Master Catalog
Speaker Cable	Large Gage	5T00UP	10 AWG high- strand count twisted pair.	High power amps, sub-woofers.	
Speaker Cable	Bi-amp	1810A	14 AWG X 4	Made for Neutrik Speakon	Audio-Video
Speaker Cable	Tri-amp etc.	1811A	14 AWG X 8	Made for Neutrik Speakon.	Audio-Video

Some Notes:

DBS means Direct Broadcast Satellite
HDTV means "high-definition television"
O.D. means "outer diameter".
AWG means American Wire Gage, the size of the wire.
RG-59 sized cable is generally .235" O.D.
RG-6 sized cable is generally .275" O.D.

A WORD ABOUT PUT-UPS

Put-ups are the sizes of reels available for a cable. Part of the problem with Belden and home installations is that many of our cables are only available in 500 or 1000-ft put-ups. If you only need 50 ft. or 100 ft, this can be a problem. Therefore, below is a list of which Belden distributors will *cut cable to length*. You might pay more, but not as much as if you wasted most of a put-up.

If you find another Belden distributor who cuts to length, or if any of those below do not cut to length or don't carry the cables listed above, please indicate this on the [comment page](#) of our web page, and we will modify the list below. The list below is in alphabetical order by distributor.

Distributor	Phone
Accu-Tech Federal	800-490-4580 ext 127 443-883-4405 Fax: 410-694-9737 www.accu-tech.com
Anixter	800-264-9837 www.anixter.com sales@anixter.com
Industrial Electric Wire & Cable	800-989-9502 (Western Region) 800-474-9984 (South Central) 800-344-2323 (North Central) 800-321-5601 (North Eastern) 877-643-5281 (So. California) 800-692-2323 (South Eastern) 877-809-4412 (New England) www.iewc.com wsales@iewc.com
Interstate Wire Co., Inc.	800-527-0010 www.interstatewire.com sales@interstatewire.com
Joseph Electronics	1-800-323-5925 847-588-3800 Fax: 1-800-446-8366 Fax: 847-588-3300

Distributor	Phone
	www.iosephelectronics.com
Nemal Electronics Intl. Inc.	1-800-522-2253 Fax: 305-895-8178 www.nemal.com info@nemal.com
Pacific Radio	323-969-2035 800-303-0969 (within CA) 800-634-9476 (outside CA) www.pacrad.com info@pacrad.com
Radio, Inc.	Tulsa, OK 918-587-9123 800-364-9123 Fax: 918-587-6931 sales@radioinc.net
	Fort Worth, TX 918-587-9123 817-429-1995 sales@radioinc.net
	Garland, TX 918-587-9123 sales@radioinc.net