



# Audio / Video Cables

European Edition



# Belden Audio/Video Cables

## Dependable Solutions in Cabling

### Better by design

Our strategic objective is to provide our customers with superior solutions for their present and future wire and cable needs. Accordingly, every solution we devise is based on performance, innovation and reliability – the three cornerstones of Belden's business strategy. The success of this commitment to deliver dependable solutions can be gauged by the many world-famous companies that use our products.



Some of our customers see the superior performance of our products in their industry-leading standards, which include VDE, KEMA, ÖVE, UL, CSA and HAR product approvals. Others point to the international specifications and standards, ranging from EN50117, RS-485 and IEC332-3C to TIA/EIA, ISO/IEC 11801, and many more besides. Our products are often called 'future-proof', meaning that the specifications exceed international requirements, with the aim of extending the product's useful life and reducing the replacement rate.



Over the years, Belden has become an international byword for premium quality and reliability, an accolade for excellence earned through decades of dedication to meeting the highest industry standards. Reducing system cost and maintenance are direct, long-term benefits of the ultra long life expectancy of Belden products. It's why our cables are used in some of the largest metropolitan communication networks in the world, like Amsterdam, Vienna and other European cities. And why many industrial installations with 24-hour continuous operation rely on the proven high quality of Belden cables.



Belden's commitment to innovation has historically fuelled new growth for industry players. It has also earned Belden global innovation leadership that is constantly

driven by the Belden Engineering Centres. For instance with Duobond®, Flamarrest®, French Braid™ and MediaTwist®. Another yardstick for measuring the success of our novel products are the many patents we hold. But the ultimate criterion is the fitness for use of the products we supply to our customers.

### A long history of innovation

For the past 100 years, Belden has been an acknowledged front-runner in the wire and cable industry, developing novel technologies and processes for the manufacture of innovative wire and cable products. Products that keep our customers at the forefront of new developments in their chosen field.

Starting in 1902, when the company was founded in Chicago, Belden has consistently pioneered breakthrough technologies and set new industry standards. This trend was set with early successes like Belden-amel insulation (1905) and the introduction of the soft rubber plug in 1927. Ever since, Belden has been an industry innovator, conceiving and developing special applications in cabling, shielding and jacketing. All focused on customer needs. All clearly establishing Belden's leadership in wire and cable technology.

### Global player

The company's successful growth strategy in the 1990s led in 1999 to the purchase of Cable Systems International, the largest specialty telecom cable facility in the world. Other capabilities were created by acquisitions in Hungary, United Kingdom, the USA and the Netherlands, where Belden has its European headquarters and a large R&D Centre and manufacturing facility. Apart from Europe and the US, Belden's worldwide presence includes marketing and sales organizations in Asia Pacific, Latin America and the Middle East.

Today, Belden is a global player in the wire and cable industry, designing, manufacturing and marketing specialty cable, such as copper, and optical fibre cable for electrical, electronic and communications equipment. Reliable products that help Belden's customers keep pace with the shifting dynamics of these fast-moving markets.

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# Dependable Solutions in Cabling

## European manufacturing operations

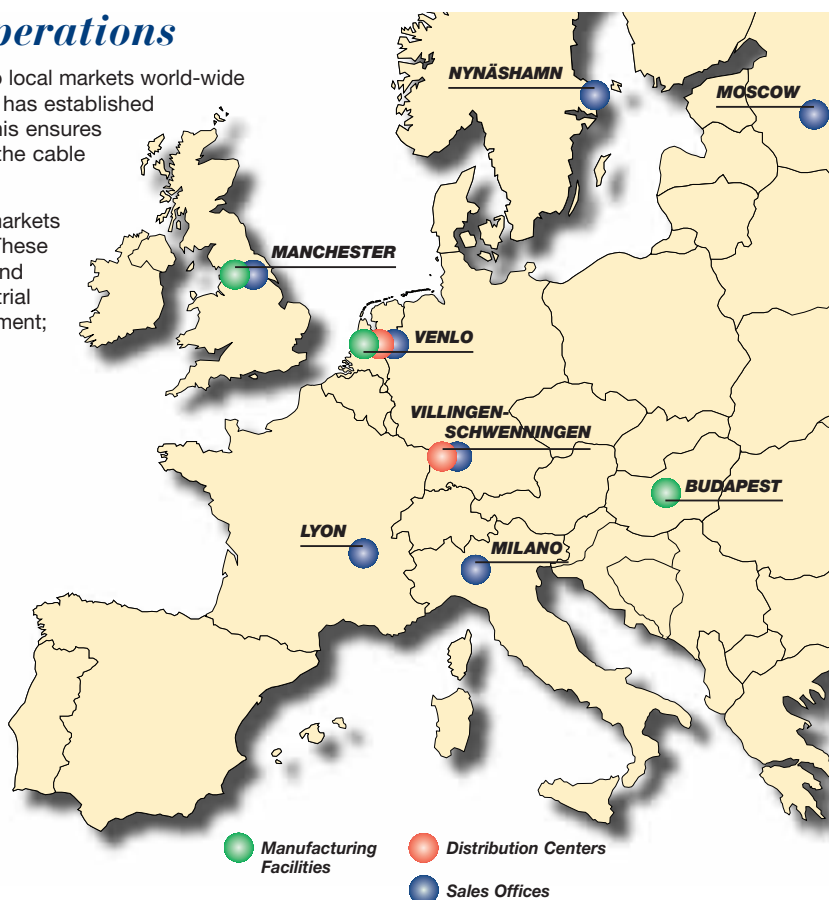
As Belden's global business plans call for a commitment to local markets world-wide and a thorough understanding of local dynamics, Belden has established a very significant presence in core European markets. This ensures that appropriate solutions can always be found to meet the cable and wire needs of our European customers.

Belden has the largest range of cable products in all the markets we serve. Dedicated products matched to local needs. These include over 10,000 products for computer networking and computer equipment; for telecommunications and industrial instrumentation and control; for broadcasting and entertainment; and for cable television and electrical equipment, mainly based on copper conductors or optical fibres.

### 'Think global, act local'

With European sales accounting for almost a quarter of Belden's world-wide turnover of US\$ 1.1 billion, Belden has clearly demonstrated the success of its 'Think global, act local' approach. And with its 1000-strong workforce across the length and breadth of Europe – and sales offices from Moscow to Lyon and from Stockholm to Dubai – Belden has a unique *local* capability to understand customers' problems. And provide the answer.

Belden's European headquarters and manufacturing base is in the Netherlands, where the company also has its European Engineering Centre. From here, Belden has easy access to Europe's top grade raw materials and is able to attract and retain highly trained personnel for its multinational workforce. From here, too, Belden's specialists offer tailor-made support to our rapidly growing European customer base. Specialists committed to providing optimal technical solutions, with additional expertise that helps our customers control their manufacturing processes better and uniquely simplify their cable installation work.



## Detailed brochures

Full-colour brochures are available on the extensive range of Belden products:

- Digital telephony cables
- Shielded and non-shielded LAN cables
- Multi-conductor cables
- Optical fibre cables
- Audio/video cables
- Coaxial broadband cables
- Electrical cables

To request detailed brochures and data-sheets on our product lines and the extensive Belden Master Catalog, please contact your local Belden representative or send an e-mail to [sales.info@belden-europe.com](mailto:sales.info@belden-europe.com)



USA



United Kingdom



The Netherlands

# Belden Audio / Video Cables

## Belden Quality

### *Fitness for use*

Belden's fitness for use philosophy goes beyond the familiar 'design for operability' and 'customer-centric' concepts and provides a strategic approach to customer support. Besides taking into consideration the hands-on needs of the installers and users of our products, Belden's dynamic approach addresses concerns that have traditionally been viewed as falling outside the scope of customer service and support.

### *High value*

Belden's fitness for use approach embraces elements of early supplier involvement, co-makership and concurrent engineering. Yet it is more than that. At Belden, fitness for use puts all the customer's interests first. It spans the development track, from concept to product development and production. And every step of the way, it focuses on the financial aspects of production, to incorporate cost-reducing measures for the hands-on users of our products.

Fitness for use provides our customers with the ideal product for their individual processes and applications. Custom-made products or standard Belden products with customized adjustments. Optimal products at reasonable cost. Products that have high value for the customer.

### *Uncompromising quality*

Belden is committed to sustaining an uncompromising performance in everything it does. From concept and design through manufacture and delivery of the high-quality products our customers need. Products stamped with the Belden hallmark of reliability and durability.

Belden uses statistical process control methods, not only to maintain the required specifications but also to continually improve its products. All Belden products are comprehensively tested before being shipped to the customer, and guaranteed to provide years of faultless performance.

Sustained customer benefits like these call for an uncompromising approach to quality. A commitment to quality which is documented by our approvals and certifications. These include ISO 9001 certification of all Belden development plants and manufacturing facilities – international accreditation, in fact, of all the company's quality processes.



ISO 9001

### *Prevention of fire hazard*

Belden's concept of fire safety goes far beyond what is required by international norms. As a result, our products provide superior performance under the most hostile conditions. One innovation to emerge from Belden's concern with product safety is Flam arrest®, a low-smoke, flame retardant jacketing with outstanding fire shielding capabilities.

A recent Pan-European study shows that all Belden products comply with the stringent flammability standards in force in all Member States of the European Union – including those of major metropolitan public transport systems and airports, where fire protection standards are among the highest in the world.

### *ISO 14001 EMS – Environmental Management System*



Addressing environmental issues correctly is recognized as a high priority, particularly in the industrialized world and not least at Belden. Accordingly, the company makes every effort to minimize the environmental impact of its operations and products.

Recognizing ecological concerns shared by customers and consumers worldwide, from 1999-2001 a working group at Belden's European headquarters in Venlo completed comprehensive preparations for ISO 14001 EMS certification. This environmental management and audit system was implemented and certified in 2001. The progress achieved in the practical implementation of Belden's environmental objectives will be published each year. This will include the measures taken by the company to minimize the environmental impact of Belden's operations, also in respect of (energy) savings in production and novel materials and processes.

## Dependable Solutions in Audio/Video

### *Solutions for the audio/video market*

**Reliable performance  
in broadcasting environments**

*Save time and reduce  
installation costs  
with Beldfoil®*



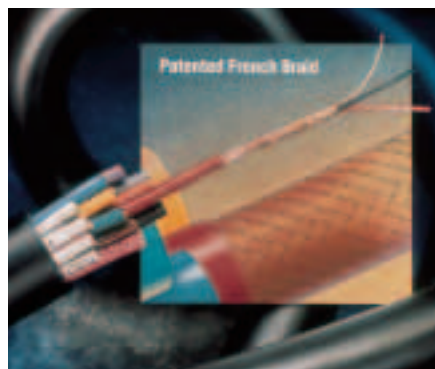
#### **Beldfoil®**

The Beldfoil® shield was the first to offer 100% cable coverage, against radiated emission at audio and radio.

**Easy and convenient to install.**

The Beldfoil® shield in several Belden products is bonded to the jacket, so both can be removed simultaneously. This saves time and reduces installation cost.

*Ultra-flexibility and  
very best shield coverage  
with French Braid®*



#### **French Braid®**

Belden's French Braid® provide more flexibility and flex life than the conventional braid, it also reduces the noise levels incurred in cables.

**Easy and convenient to install.**

In comparison to the standard braid shield, Belden's French Braid® offers increased shield coverage (> 98%), improved flex life, and ease of termination with minimal impact on structural integrity.

*Belflex® jacket offers  
optimal security*



#### **Belflex®**

Belflex® jacket gives best flexibility and maximum security with following advantages:

- retention of flexibility at extremely low as well as high temperatures of -55°C to 105°C
- exceptional oil-resistance
- excellent retractile properties
- superb abrasion resistance
- Belflex® has a distinctive matte appearance
- long life span



# Belden Audio / Video Cables

## Dependable Solutions in Audio/Video

### Digital Audio

The specification for digital audio was developed jointly by the Audio Engineering Society & European Broadcast Union (AES/EBU). The two key electrical parameters in this specification that pertain to cable are the data rate which depends on the sampling rate (see table below) and impedance of 110 ohms  $\pm$  20% for twisted pair constructions and 75 ohms for coax designs.

Application	Sampling Rate	Bandwidth
DSR	32 kHz	4.096 MHz
CD/DVD	44.1 kHz	5.6448 MHz
DAT	48 kHz	6.144 MHz
DVD	96 kHz	12.228 MHz
DVD	192 kHz	24.576 MHz

\*Note: Transmission distance calculations assume minimum allowable output signal amplitude (2V per AES3-1992) and minimum allowable input signal amplitude (200 mV per AES3-1992). Longer transmission distance is achievable but is contingent upon system component quality.

### Digital Audio Transmission Distance\*

	2 MHz		4 MHz		5 MHz		6 MHz		12 MHz		25 MHz	
	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.
	<b>110 ohms</b>											
<b>26 AWG Pairs</b>	365	1198	289	948	265	870	248	813	193	633	144	474
<b>24 AWG Pairs</b>	469	1538	391	1282	359	1176	337	1105	267	877	198	649
<b>22 AWG Pairs</b>	655	2151	530	1739	508	1667	469	1538	381	1250	309	1015
<b>1800F</b>	476	1563	281	922	233	763	203	664	129	424	85	279
	<b>75 ohms</b>											
<b>1855A</b>	1073	3521	740	2427	663	2174	607	1992	469	1538	339	1111
<b>1505A</b>	1483	4866	1060	3478	968	3175	887	2911	677	2222	469	1538
<b>1505F</b>	1793	5882	1150	3774	1016	3333	910	2985	622	2041	423	1389
<b>1694A</b>	1793	5882	1275	4184	1129	3704	1039	3407	762	2500	610	2000

### Digital Video

#### Future will go HDTV

High Definition Television (HDTV) require upgrades throughout the TV industry, creating additional opportunities. International competitions, e.g. olympic games, formula one, football, have become very popular and have a need of highest technology that broadcaster can get.

#### Television Standards

The Society of Motion Picture and Television Engineers (SMPTE) have developed several standards for serial digital video transmissions (SDI), and a 540 Mb/s format is currently under development. There is also a European standards body known as the ITU (formerly CCIR) that developed the composite video standard for Europe known as PAL/SECAM.

The most common is the 270 Mb/s SDI (Serial Digital Interface). All of the specifications differ in bandwidth requirements and transmission technology, i.e., composite, component and digital:

Data Rate	Bandwidth	Standard	Description
143 Mb/s	71.5 MHz	SMPTE 259M	NTSC
177 Mb/s	88.5 MHz	ITU-R BT.601	PAL / SECAM
270 Mb/s	135.0 MHz	SMPTE 259M	Component Video 4:3
360 Mb/s	180.0 MHz	SMPTE 259M	Component 16:9
540 Mb/s	270.0 MHz	SMPTE 344M	Component Widescreen
1.5 Gb/s	750.0 MHz	SMPTE 292M	HDTV

#### Belden's Return Loss (RL) specification exceeds SMPTE requirement for HDTV:

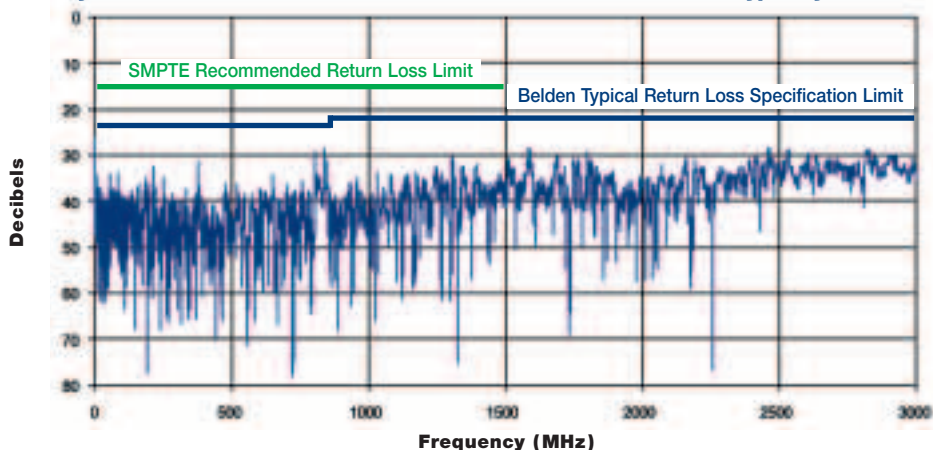
Specification	RL	Frequency
SMPTE Recommended RL Limit	> 15 dB	5 – 1.5 GHz
Belden Guaranteed RL Specification Limit	> 23 dB	5 – 850 MHz
Belden Guaranteed RL Specification Limit	> 21 dB	850 MHz – 3 GHz

Using Belden coaxial cable will result in a minimum 6 dB of Headroom to accommodate to RL reduction introduced by: connectors, patch-bays, etc.

For High Definition Television (HDTV) cables a band-width of 750 MHz is required with good RL performance at the third harmonic frequency of 2.25 GHz (3 x 750). Belden coaxes intended for HDTV applications are currently tested up to 3 GHz and have a typical RL of 30 dB.



Below you will find the actual RL data of Belden 1505A. The cable is typically - 30 dB:



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# Optical Fibre Cables

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	Core/Clad/Buffer AWG (stranding) Dia. in mm Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		Shields & Overall Jacket Material Nom. D.C.R.	Nominal Optical Attenuation
		ft.	m			Inch	mm	Inch	mm		

## SMPTE 311 6/2 Composite Cable



### Product Description

Belden **7804C** is designed specifically for camera signal and control functions which belong to SMPTE 311 for longer transmission distances. This new 6/2 (6 copper/2 fibre) Composite Cable mates with industry standard SMPTE 304 connectors and assures clear, reliable transmission of audio, video and camera control functions. The black jacket is constructed of Belflex® material with rubber-like qualities that is highly flexible and durable, and suitable for outdoor and field applications.

SMPTE 311M	7804C NEC CMR CEC CMR	Standard Lengths		Std. Unit kg	Core/Clad/Buffer AWG (stranding) Dia. in mm Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.	Shields & Overall Jacket Material Nom. D.C.R.	Nominal Optical Attenuation	
		ft.	m			Inch	mm				Inch
* Also available: 7804R with 4 Conductors		500	152.4	46	2 Breakout Fibres Single Mode 125/900 Micron	PVC		0.362	9.2	Braid shield 36 AWG tinned copper 95% braid 2.9 Ω/M' 9.5 Ω/km	0.14 dB/1000 ft. @ 1310 nm
		1000	304.8	87		0.079	2.00				
		1640	500.0	140		PVC					
		3280	1000.0	288	2 Conductors* 16 (65 x 34) 1.5 tinned copper 4.3 Ω/M' 14.1 Ω/km	PVC				Black Belflex® Jacket	0.45 dB/km @ 1310 nm
						0.093	2.36				
					2 Conductors 24 (7 x 32) 0.61 tinned copper 23.3 Ω/M' 76.4 Ω/km	PVC					
						0.050	1.27				

Part No. UL NEC C (UL) CEC Type		No. of Fibres	Ø Nom./Max. (mm)	Weight (kg/km)	Max. Pulling Tension (N)	Energy of Flame (kJ/m)
50/125	62.5/125					

## MOBILE OPTICAL FIBRE



### Product Description

These new Belden mobile Optical Fibre Cables (OFC) are a perfect alternative for applications where stiff, heavy, older triax cable is currently employed, or in long haul situations. It is designed for rugged field applications with an PUR (Polyurethane) outer jacket. Withstand temperature extremes and vehicle traffic. Repeating bending is > 500,000 times according to IEC 60794-1-2-E6. For indoor use it has flame retardancy according to IEC 60332-2. The standard put-up is 2 km.

GMMT204	GMMT104	4	5.8	31	800	580
GMMT206	GMMT106	6	6.3	38	950	725
GMMT208	GMMT108	8	7.0	47	1100	890

### Optical Characteristics

Fibre-type (Multi-Mode)	Size (µm)	Wavelength (nm)	Attenuation Average/max. (dB/km)	Bandwidth (MHz x km)	Gigabit Ethernet Performance (m)	Refractive Index
50/125	50 ± 2.5 125 ± 2	850	2.6/2.8	≥ 600 ≥ 1200	550 550	1.481
		1300	0.6/0.9			1.476
62.5/125	62.5 ± 2.5 125 ± 2	850	3.0/3.2	≥ 200 ≥ 600	220 550	1.495
		1300	0.7/0.9			1.490

- **Temperature range** according to IEC 60794-1-2-F1
 

Transport/storage	-30 to +70 °C
Installation	-5 to +50 °C
Operation	-30 to +70 °C
- **Strippability**

Secondary coating only	≤ 10 cm
Secondary + primary coating	≤ 10 mm
- **Watertightness** according to IEC 60794-1-2-F5
- **Pulling tension** according to IEC 60794-1-2-E1  
See table with dimensions
- **Crush resistance** according to IEC 60794-1-2-E3
 

Tight buffer	≤ 4000 N/m
Cable	≤ 4000 N/m
- **Bending radii for fibres and tubes**

Installation/operation	> 25 mm
------------------------	---------
- **Bending radii cable**

Static according to IEC 60794-1-2-E11	- 15 x Ø
Dynamic according to IEC 60794-1-2-E6	- 20 x Ø

# Belden Audio / Video Cables

## Microphone Cables

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Cond.	Standard Lengths		Std. Unit kg	AWG (stranding)	Insulation Thickness		Jacket Thickness		Nominal O.D.		Nominal Capacitance			
			ft.	m			Inch	mm	Inch	mm	Inch	mm	CDR/CDR		CDR/SCR	
													pF/ft.	pF/m	pF/ft.	pF/m

### DOUBLE BRAID



Analog  
Mobile

#### Product Description

Belden's famous **9397** has a double spiral shield for [better secure of triboelectric noises](#).

75°C	<b>9397</b>	2	500 1000	152.4 304.8	11.1 22.4	(105 x 44)	0.012	0.30	0.031	0.79	0.176	4.47	40	131	110	361
<b>24 Gage</b> (0.22 mm <sup>2</sup> )						Bare copper, PVC insulated, conductors cabled with fillers. Bare copper double spiral shield. Matte Grey or Matte Black PVC jacket. Suggested working voltage: 300V RMS. Color code: White, Green.										

### FLEX



Analog  
Mobile

#### Product Description

Belden's **46349** is [good quality MIC cable](#) and made for professional musicians.

75°C	<b>46349</b>	2	328 3280	100 1000	4.2 42.0	24 (28 x 0.1)	0.025	0.63	0.059	1.50	0.236	6.00	-	-	18	60
<b>24 Gage</b> (0.22 mm <sup>2</sup> )						Bare copper, PE insulated, twisted pairs with fillers, with a spiral wound screening bare copper (> 90% coverage). High flex matte PVC jackets in Red, Yellow, Green, Blue, Grey, White and Black. Color code: Red, Blue.										

### SUPERFLEX



Analog  
Mobile

#### Product Description

Belden's **46340** is [very flexible](#) and suitable for stage and studio.

75°C	<b>46340</b>	2	328 1640	100 500	4.9	24 (128 x 50)	0.025	0.63	0.059	1.50	0.236	6.00	-	-	18	60
<b>24 Gage</b> (0.25 mm <sup>2</sup> )						Bare copper, PE insulated, twisted pairs with fillers, with a spiral wound screening bare copper (> 90% coverage). High flex matte PVC jacket in Black. Color code: Red, Blue.										

### LONG LIFE



Analog  
Mobile

#### Product Description

Belden **8412** is the classic microphone cable with excellent conductivity and is [better at longer lengths](#) than other MIC cables. The use of rubber in the construction provides [good abrasion](#) and [impact resistance](#) and [extra limpness](#), so the cable [lies flat on the stage or studio floor](#).

60°C	<b>8412</b>	2	250 U-500 500 U-1000 1000	76.2 U-152.4 152.4 U-304.8 304.8	5.5 10.8 11.2 21.5 21.6	20 (26 x 34)	0.023	0.58	0.035	0.89	0.262	6.65	30	98	55	180
<b>20 Gage</b> (0.52 mm <sup>2</sup> )						Tinned copper, cotton wrap, rubber insulated, conductors cabled. Rayon braid, tinned copper braid shield. 85% shield coverage. Cotton wrap, EPDM jacket. Suggested working voltage: 600V RMS. Color code: White, Black. EPDM jacket colors: Black, Red, Yellow and Blue. Note: Red, Yellow and Blue are available in 1000' only.										

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# Microphone Cables

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Cond.	Standard Lengths		Std. Unit kg	AWG (stranding)	Insulation Thickness		Jacket Thickness		Nominal O.D.		Nominal Capacitance			
			ft.	m			Inch	mm	Inch	mm	Inch	mm	CDR/CDR		CDR/SCR	
													pF/ft.	pF/m	pF/ft.	pF/m

## PROFESSIONAL



Analog  
Mobile

### Product Description

Belden's **9398** is one of [classic microphone cables](#) with excellent performance. With the double spiral shield the MIC cable is protected against noise.

24 Gage (0.22 mm <sup>2</sup> )	9398 <b>available: FRNC/LSNH</b>	3	1000	304.8	11.5	24 (105 x 44)	0.012	0.30	0.030	0.76	0.185	4.70	40	131	110	361
							Bare copper, PVC insulated, conductors cabled with fillers. Bare copper double spiral shield. Matte Grey or matte Black PVC jacket. Suggested working voltage: 300V RMS. Color code: White, Green, Brown.									

## STAR QUAD/small



Analog  
Mobile

### Product Description

Belden's **Star Quad 1804A** is made for applications where small size is required.

28 Gage (0.09 mm <sup>2</sup> )	1804A	4 2 Blue 2 White	500	152.4	2.3	28 (19 x 40) silver plated high strength copper alloy 65 Ω/M' 213 Ω/km	0.006	0.152	0.014	0.356	0.115	2.92	40*	131*	60	197
							Silver plated copper alloy conductors, polypropylene insulated, tinned copper braid shield (78% coverage), matte PVC jackets in Red, Yellow, Blue, Beige and Black. <b>Note:</b> one Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.									

## STAR QUAD/flex



↑  
French Braid®

Analog  
Mobile

### Product Description

Belden's "[Super Flexible](#)" Star Quad cable, part no. **1172A**, utilizes Belden's patented **French Braid®** shield technology and is particularly suitable [for use in outside broadcast and noisy environment applications](#).

100V 75°C  26 Gage (0.14 mm <sup>2</sup> )	1172A	4 2 Blue 2 White	500 1000	152.4 304.8	4.6 9.5	26 (30 x 40) bare copper 36.0 Ω/M' 118 Ω/km	0.011	0.28	0.030	0.76	0.190	4.83	39*	128*	57	187
							Bare copper, polyethylene insulated, conductors cabled, tinned copper <b>French Braid®</b> shield (95% coverage) with bare copper drain wire, matte PVC jackets in Red, Green, Yellow, Blue, Grey and Black. <b>Note:</b> one Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.									

## STAR QUAD/low noise



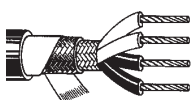
Analog  
Mobile

### Product Description

Belden's **Star Quad 1192A** is made for low noise applications.

100V 75°C  24 Gage (0.22 mm <sup>2</sup> )	1192A	4 2 Blue 2 White	100 500 1000	30.5 152.4 304.8	1.8 8.3 16.0	24 (42 x 40) bare copper 26.6 Ω/M' 87.2 Ω/km	0.016	0.41	0.045	1.14	0.245	6.22	39*	128*	57	187
							Bare copper, polyethylene insulated, conductors cabled, tinned-copper braid shield (95% coverage), matte PVC jackets in Red, Green, Yellow, Blue, Grey and Black. <b>Note:</b> one Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.									

## STAR QUAD/RUBBER



Analog  
Mobile

### Product Description

With the 20 Gage stranded conductors Belden's **8424** is our largest starquad construction. The rubber in the construction provides [good abrasion, impact resistance and extra limpness](#).

60°C  20 Gage (0.52 mm <sup>2</sup> )	8424	4	100 250 U-500 500 1000	30.5 76.2 U-152.4 152.4 304.8	7.3 15.7 30.5 30.0 64.3	20 (26 x 34) tinned copper	0.023	0.58	0.036	0.91	0.294	7.47	27*	95*	59	193
							Tinned copper, cotton wrap, rubber insulated, conductors cabled. Rayon braid, tinned copper braid shield, 85% coverage. Cotton wrap, Black EPDM rubber jacket. Suggested working voltage: 600V RMS. Color code: Black, White, Red, Green.									

\* Capacitance between CDR as connected in quad configuration.

# Belden Audio / Video Cables

## Audio-Connect Cables – analog

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Cond./ Pairs	Standard Lengths		Std. Unit kg	Insulation Thickness		Jacket Thickness		Nominal O.D.		Nominal Capacitance			
			ft.	m		Inch	mm	Inch	mm	Inch	mm	CDR/CDR		CDR/SCR	
												pF/ft.	pF/m	pF/ft.	pF/m

### FAST INSTALLATION/size



Analog  
Installation

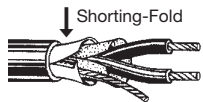
#### Product Description

Belden **1883A** is similar to the popular Belden 9451 but with **24 AWG/0.22 mm<sup>2</sup>**. It has the added advantage of having the **foil screen bonded to the jacket** and the **drain wire inside the foil** for fast installation. Greatly **speeding-up the installation time** when making multiple connections.

<b>Beldfoil®</b> 100% Shield Coverage <b>24 Gage</b> (7 x 32) (0.22 mm <sup>2</sup> )	<b>1883A</b>  NEC CM CEC CM	2	U-1000	U-304.8	5.9	0.008	0.20	0.020	0.51	0.123	3.12	31	102	58	190
		1 pair													

Tinned copper, polypropylene insulated, twisted pair. **Beldfoil®** aluminum-polyester shield. 24 AWG stranded tinned copper drain wire. PVC jacket available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black. The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield. Suggested working voltage: 300V RMS. Color code: Black, Red.

### NOISE REDUCTION



Analog  
Installation

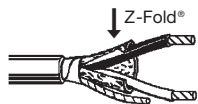
#### Product Description

Belden's **9452** balanced pair instrumentation cable featuring short lay cabling to **minimize pick-up of electromagnetic interference** and special conductive textile tape to **minimize triboelectric noise**.

<b>Beldfoil®</b> (unbonded jacket) 100% Shield Coverage <b>24 Gage</b> (19 x 36) (0.22 mm <sup>2</sup> )	<b>9452</b>	2	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	6.3 6.0 12.8 11.3	0.008	0.20	0.020	0.51	0.135	3.43	30	98	58	190
		1 pair													

Tinned copper, high density, polyethylene insulated, twisted pair. Noise reducing tape. 24 AWG stranded tinned copper drain wire. **Beldfoil® (unbonded jacket)** aluminum-polyester shield. 100% shield coverage. Black PVC jacket. Balanced pair instrumentation cable featuring short lay cabling to minimize pick-up of electromagnetic interference and special conductive textile tape to minimize triboelectric noise. Nominal impedance: 56 ohms. Suggested working voltage: 200V RMS. Color code: Black, Red.

### STANDARD



Analog  
Installation

#### Product Description

Belden **8451** is the classic miniature audio cable with an O.D. of 3.51 mm. This popular cable is **often specified by OEM's**.

<b>Beldfoil®</b> (unbonded jacket) 100% Shield Coverage <b>22 Gage</b> (7 x 30) (0.34 mm <sup>2</sup> )	<b>8451</b>  NEC CM CEC CM	2	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	3.4 3.2 6.3 6.1	0.008	0.20	0.020	0.51	0.138	3.51	34	111	67	220
		1 pair													

Tinned copper, polypropylene insulated, twisted pair. **Beldfoil® (unbonded jacket)** aluminum-polyester shield. 22 AWG stranded tinned copper drain wire. Paper wrap, Grey or Black PVC jacket. Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables. Suggested working voltage: 300V RMS. Unique paper separator facilitates jacket stripping. Color code: Black, Red.

### FAST INSTALLATION



Analog  
Installation

#### Product Description

Belden **9451** is similar to the popular Belden 8451. It has the added advantage of having the **foil screen bonded to the jacket** and the **drain wire inside the foil** for fast installation. This makes the cable easier to strip. A standard stripping tool removes both the insulation and foil, greatly **speeding-up the installation time** when making multiple connections.

<b>Beldfoil®</b> 100% Shield Coverage <b>22 Gage</b> (7 x 30) (0.34 mm <sup>2</sup> )	<b>9451</b>  NEC CM CEC CM	2	U-1000 5000	U-304.8 1.524.0	6.2 31.8	0.008	0.20	0.020	0.51	0.135	3.43	34	111	67	220
		1 pair													

Tinned copper, polypropylene insulated, twisted pair. **Beldfoil®** aluminum-polyester shield, 22 AWG stranded tinned copper drain wire. PVC jacket in Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black. The jacket and shield are bonded so both can be removed with automatic stripping equipment. Drain wire is on the inside of foil shield. Suggested working voltage: 300V RMS. Color code: Black, Red.  
**Also available: 9451D, siamese version**

### DUO PATCH



Analog  
Installation

#### Product Description

Belden's **8728 double pair** cable is suitable for two-channel stereo.

<b>Beldfoil®</b> (unbonded jacket) 100% Shield Coverage 2177 <b>22 Gage</b> (7 x 30) (0.34 mm <sup>2</sup> )	<b>8728</b>  NEC CM CEC CM	4	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	16.7 15.5 30.7 28.6	0.010	0.25	0.028	0.71	0.215	5.46	35	115	62	203
		2 pair													

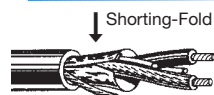
Tinned copper, polypropylene insulated, conductors cabled in pairs, each pair **Beldfoil® (unbonded jacket)** aluminum-polyester shielded with 24 AWG stranded tinned copper drain wire, polyester film over each shield, overall **Beldfoil® (unbonded jacket)** aluminum-polyester shield and 24 AWG stranded tinned copper drain wire, chrome PVC jacket. Pairs cabled in common axis to reduce diameter. Color code: Black, Red, Green, White.

Back to Content

# Audio-Connect Cables – digital

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

## PATCH/small



Shorting-Fold

Digital  
Installation

### Product Description

Belden's **9180** is designed for AES/EBU specification. The cable has a foil shield and therefore [recommended for permanent installs.](#)

<b>Beldfoil®</b> 100% Shield Coverage 80°C  <b>26 Gage</b> (0.14 mm <sup>2</sup> )	<b>9180</b>  NEC CM CEC CM	1000	304.8	11.0	26 (7 x 34) 0.48 tinned copper 37.3 Ω/M' 122.3 Ω/km	Datalene® color coded Black, White		0.144	3.66	<b>Beldfoil®</b> with 26 AWG drain wire 23.1 Ω/M' 75.8 Ω/km	110	76 %	13.5	44	2	1.92	6.29
						Chrome PVC jacket.					4	2.14	7.01				
													5	2.40	7.87		
													6	2.47	8.10		
													12	3.18	10.43		
				25	4.20	13.77											

## PATCH/medium

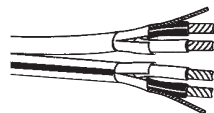


Digital  
Installation

### Product Description

Belden's digital **1800B** and **1802B** utilize a special foam high-density polyethylene (Data-lene®) that provides [exceptional crush resistance](#) when compared to standard foam insulations.

<b>Beldfoil®</b> 100% Shield Coverage 60°C  <b>24 Gage</b> (0.22 mm <sup>2</sup> )	<b>1800B</b>  NEC CMG CEC CMG	500	152.4	9.8	24 (7 x 32) 0.61 tinned copper 23.7 Ω/M' 77.7 Ω/km	Datalene® color coded Red, Black		0.180	4.57	<b>Beldfoil®</b> with 24 AWG drain wire 18.9 Ω/M' 62.0 Ω/km	110	76 %	13.0	43	2	1.31	4.29
		U-1000	U-304.8	18.2		Slate Grey or Purple PVC jacket.					4	1.57	5.18				
		1000	304.8	18.3		0.070	1.78				5	1.76	5.77				
											6	1.83	6.00				
											12	2.30	7.54				
					25	3.08	10.10										



Digital  
Installation

<b>Beldfoil®</b> 100% Shield Coverage 60°C  <b>24 Gage</b> (0.22 mm <sup>2</sup> )	<b>1802B</b>  NEC CMG CEC CMG	500	152.4	19.7	24 (7 x 32) 0.61 tinned copper 23.7 Ω/M' 77.7 Ω/km	Datalene® color coded Red, Black		0.180 x 0.374	4.57 x 9.50	<b>Beldfoil®</b> with 24 AWG drain wire 18.9 Ω/M' 62.0 Ω/km	110	76 %	13.0	43	2	1.31	4.29
		U-1000	U-304.8	29.0		Violet PVC jacket in zip cord style construction.					4	1.57	5.18				
		1000	304.8	30.9		0.070	1.78				5	1.76	5.77				
											6	1.83	6.00				
											12	2.30	7.54				
					25	3.08	10.10										

## PERFORMANCE



French Braid®

Digital  
Mobile

### Product Description

Belden's new "Super Flexible" digital cable, part no. **1800F**, utilizes Belden's patented **French Braid®** shield technology and a [special jacket compound](#) formulation to provide the ultimate in flexibility and performance.

High Flex Version  <b>24 Gage</b> (0.22 mm <sup>2</sup> )	<b>1800F</b>	500	152.4	16.7	24 (42 x 40) 0.61 bare copper 23.7 Ω/M' 77.7 Ω/km	Datalene® color coded Blue, White		0.211	5.36	95% tinned copper <b>French Braid®</b> with bare copper drain wire 5.0 Ω/M' 16.4 Ω/km	110	76 %	13.0	43	2	1.28	4.19
		U-1000	U-304.8	27.4		PVC jackets in Red, Yellow, Green, Blue, Grey, Purple and Black.					4	2.17	7.12				
		1000	304.8	32.9		0.049	1.25				5	2.62	8.59				
											6	3.01	9.87				
											12	4.72	15.48				
					25	7.17	23.51										

## PATCH/large



Z-Fold®

Digital  
Mobile

### Product Description

Belden's **1696A** is designed for AES/EBU specification. The cable has a foil plus braid and therefore [recommended for flexed applications.](#)

<b>Beldfoil®</b> (unbonded jacket) High Flex Version  <b>22 Gage</b> (0.34 mm <sup>2</sup> ) Stranded Conductors	<b>1696A</b>	250	76.2	8.9	22 (7 x 30) 0.61 tinned copper 14.8 Ω/M' 48.5 Ω/km	Datalene® color coded Blue, White		0.234	5.94	<b>Beldfoil®</b> (unbonded jacket) with 24 AWG drain wire + 90% tinned copper braid 4.6 Ω/M' 15.2 Ω/km	110	76 %	13.0	43	2	0.88	2.88
		500	152.4	16.6		Black high flex matte PVC jacket.					4	1.09	3.57				
		U-1000	U-304.8	31.5		0.082	2.08				5	1.32	4.32				
		1000	304.8	31.3							6	1.37	4.49				
											12	1.77	5.80				
					25	2.41	7.90										

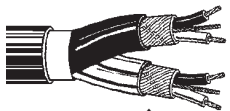


# Belden Audio/Video Cables

## Multicore Cables – analog

**FLEXNAKE®**

Analog  
Mobile



↑ French Braid®

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Pairs	Standard Lengths		Std. Unit kg	Outer Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm

### Product Description

Belden's new **19-series "Super Flexible"** audio snake cable, utilizes Belden's patented **French Braid®**. This improves flex life, **lowers microphonic or triboelectric noise and DC loop resistance**. The **French Braid®** is easy to terminate since it is not fully woven. Jacketed pairs are **individually numbered** and **color coded** (following the familiar resistor color code) for easy identification.

Bare copper, polyolefin insulated twisted pairs color coded Red & Black, each pair individually shielded with bare copper double serve <b>French Braid®</b> (93% coverage) with tinned copper drain wire. Individual pairs with numbered and color coded PVC jackets. Overall Black matte PVC jackets.  <b>Pair Dimensions &amp; Electricals</b> Nominal O.D. Conductor.....0.0225 inch 0.57 mm Nominal O.D. Insulation.....0.040 inch 1.02 mm Inner Pair Jacket O.D.....0.120 inch 3.05 mm Nominal D.C.R. Conductor.....25.5 Ω/M' 83.7 Ω/km Nominal D.C.R. Shield.....7.2 Ω/M' 23.6 Ω/km Nominal Impedance (ohms).....60 Nominal velocity of Propagation.....66% CDR/CDR Nominal Capacitance between conductors.....26 pF/ft. 85 pF/m CDR/SCR Nominal Capacitance between one conductor and other conductors connected to shield.....47 pF/ft. 154 pF/m	<b>Individually Shielded and Jacketed Pairs</b>	<b>1902A</b>	2	250 500 1000	76.2 152.4 304.8	5.3 8.3 16.2	0.050	1.27	0.330	8.38
	<b>24 Gage (0.22 mm<sup>2</sup>) Stranded Conductors (41 x 40)</b>	<b>1904A</b>	4	250 500 1000	76.2 152.4 304.8	9.7 18.3 33.2	0.043	1.09	0.372	8.45
	<b>Polyolefin Insulated</b>	<b>1906A</b>	6	250 500 1000	76.2 152.4 304.8	11.5 23.0 45.2	0.049	1.24	0.447	11.4
	<b>Numbered and Color Coded Pair Jackets</b>	<b>1908A</b>	8	250 500 1000	76.2 152.4 304.8	14.6 30.2 57.1	0.050	1.27	0.482	12.2
		<b>1912A</b>	12	250 500 1000	76.2 152.4 304.8	21.9 43.7 87.8	0.062	1.57	0.602	15.3
		<b>1916A</b>	16	250 500 1000	76.2 152.4 304.8	30.0 56.8 113.7	0.077	1.96	0.683	17.3
		<b>1924A</b>	24	250 500 1000	76.2 152.4 304.8	44.1 88.4 181.1	0.090	2.29	0.825	21.0
		<b>1932A</b>	32	250 500 1000	76.2 152.4 304.8	58.7 113.9 232.3	0.100	2.54	0.968	24.6

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of CDR	Standard Lengths		Std. Unit kg	AWG (stranding)	D.C.R. Ω/km	Jacket Thickness		Nominal O.D.		Nominal Capacitance	
			ft.	m				Inch	mm	Inch	mm	pF/ft.	pF/m

**PATCH/analog**



Analog  
Mobile

### Product Description

Belden **46801** is a **very flexible** patch cable. It is used for connecting musical instruments and suitable for **BANTAM** applications.

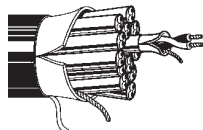
<b>24 Gage (0.22 mm<sup>2</sup>)</b>	<b>46801</b>	2	328	100	42.0	24 (28 x 0.1)	80	0.098	2.50	0.185	4.70	49	160
Bare copper, polyethylene insulated, conductors cabled with fillers (Cotton/Aramid) > 90% spiral screen copper braid, matte PVC jacket in Black. Color code: Red, Blue.													

[Back to Content](#)

# Multicore Cables – analog

## FLEX/foil

Analog  
Installation



Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Pairs	Standard Lengths		Std. Unit kg	Outer Jacket Thickness		Nominal O.D.		Nominal D.C.R. Overall Shield	
			ft.	m		Inch	mm	Inch	mm	Ω/M'	Ω/km

### Product Description

Belden **15-series** is a flexible audio snake cable. The foil screen of each pair is bonded to the jacket with the drain wire inside the foil. This makes the cable easier to strip. A standard stripping tool removes both the insulation and foil greatly [speeding-up the installation time](#). Jacketed pairs are [individually numbered](#) and [color coded](#) (following the familiar resistor color code) for easy identification.

<p>Tinned copper, polyolefin insulated pairs color coded Red &amp; Black, each pair individually shielded with bonded <b>Beldfoil</b>® aluminum-polyester shield. Individual pairs with numbered and color coded PVC jackets. Overall <b>Beldfoil</b>® aluminum-polyester shield. Overall Black matte PVC jacket with nylon ricord. Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment.</p> <p><b>Pair Dimensions &amp; Electricals</b></p> <p>Nominal O.D. Conductor.....0.024 inch    0.61 mm          Nominal O.D. Insulation.....0.040 inch    1.02 mm          Inner Pair Jacket O.D.....0.111 inch    2.82 mm          Nominal D.C.R. Conductor.....23.3 Ω/M'    76.4 Ω/km          Nominal D.C.R. Shield.....18.9 Ω/M'    62.0 Ω/km          Nominal Impedance (ohms).....50          Nominal velocity of Propagation.....66 %          CDR/CDR          Nominal Capacitance between conductors.....31 pF/ft.    102 pF/m          CDR/SCR          Nominal Capacitance between one conductor and other conductors connected to shield.....58 pF/ft.    190 pF/m</p>	<p><b>Individually Shielded and Jacketed Pairs</b></p> <p><b>24 Gage (0.22 mm<sup>2</sup>) Stranded Conductors (7 x 32)</b></p> <p><b>Polyolefin Insulated</b></p> <p><b>Numbered and Color Coded Pair Jackets</b></p> <p><b>NEC CM</b></p>	<b>1509C</b>	2	500 1000	152.4 304.8	10.7 20.0	0.034 0.86	0.301 7.65	14.4 47.2
		<b>1510C</b>	4	500 1000	152.4 304.8	16.8 32.3	0.037 0.94	0.352 8.94	5.3 17.4
		<b>1511C</b>	6	500 1000	152.4 304.8	22.3 44.1	0.037 0.94	0.418 10.61	5.3 17.4
		<b>1512C</b>	8	500 1000	152.4 304.8	29.1 59.1	0.033 0.84	0.452 11.48	5.2 17.1
		<b>1513C</b>	12	500 1000	152.4 304.8	40.0 103.6	0.045 1.14	0.561 14.25	5.0 16.4
		<b>1514C</b>	16	500 1000	152.4 304.8	53.0 103.6	0.056 1.42	0.628 15.95	4.9 16.1
		<b>1515C</b>	20	500 1000	152.4 304.8	63.2 128.2	0.055 1.40	0.710 19.56	4.8 15.7
		<b>1516C</b>	24	500 1000	152.4 304.8	79.1 162.7	0.065 1.65	0.807 20.50	4.8 15.7
		<b>1517C</b>	26	500 1000	152.4 304.8	83.4 171.4	0.065 1.65	0.823 20.90	4.6 15.1
		<b>1518C</b>	32	500 1000	152.4 304.8	100.2 204.1	0.070 1.78	0.897 22.78	4.6 15.1
		<b>1519C</b>	52	500 1000	152.4 304.8	163.4 320.5	0.085 2.16	1.117 28.37	4.4 14.4

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Pairs	Standard Lengths		Std. Unit kg	Insulation Thickness		Jacket Thickness		Nominal O.D.		Nominal Capacitance			
			ft.	m		Inch	mm	Inch	mm	Inch	mm	pF/ft.	pF/m	pF/ft.	pF/m

## INSTALLATION

Analog  
Installation



### Product Description

Belden **1508A** is made with [drain wire inside the foil](#) for fast installation. This makes the cable easier to strip. A stranded stripping tool removes both the insulation and foil, greatly [speeding-up the installation time](#) when making multiple connections. See for siamese version Belden **1504A** in our American Audio/Video Catalog.

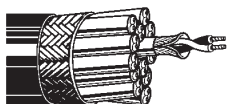
<b>Beldfoil</b> ® 100 % Shield Coverage	<b>1508A</b>  NEC CM CEC CM	1	500 1000	152.4 304.8	2.5 5.0	0.008	0.20	0.024	0.61	0.131	3.33	31	102	58	190
<b>24 Gage (7 x 32) (0.22 mm<sup>2</sup>)</b>						<p>Tinned copper, polyolefin insulated, twisted pair, <b>Beldfoil</b>® aluminum-polyester shield, 24 AWG stranded tinned copper drain wire, Black matte PVC jacket. The jacket and shield are bonded so both can be removed with automatic stripping equipment. Color code: Black, Red.</p>									

# Belden Audio/Video Cables

## Multicore Cables – analog

### FLEX/braid

Analog  
Mobile



Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Pairs	Standard Lengths		Std. Unit kg	Outer Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm

#### Product Description

Belden **46-analog-series** is a flexible audio snake cable with an overall braid shield. This makes the cable suitable for [mobile applications](#). Jacketed pairs are [individually numbered](#) for easy identification.

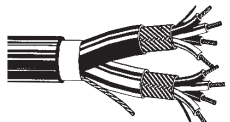
Tinned copper, single-insulation: PE, each pair of a Red and a White insulated single and shielded first with a polyester foil and then with a spiral screening of 0.10 mm tinned copper (> 90% coverage). Each screened pair jacket with a numbered PVC jacket. Pairs twisted together in a layer with a central filler and shielded with a non-woven foil. Overall tinned braid (>80% coverage). Jacket matte soft PVC, color code: Black.	<b>26 Gage</b> (0.14 mm <sup>2</sup> ) (18 x 0.1)	46312	4	1640	500	91.5	0.173	4.40	0.492	12.5
		46313	8	1640	500	136.5	0.150	3.80	0.591	15.0
		46315	12	1640	500	169.0	0.126	3.20	0.638	16.2
		46305	16	1640	500	201.0	0.130	3.30	0.709	18.0
		46306	24	820	250	154.0	0.157	4.00	0.882	22.4
		46332	28	820	250	174.0	0.157	4.00	0.921	23.4
		46333	32	820	250	190.8	0.157	4.00	0.988	25.1
		46334	36	820	250	213.3	0.154	3.90	1.055	26.8
	46948	40	820	250	245.0	0.154	3.90	1.083	27.5	

#### Pair Dimensions & Electricals

Nominal O.D. Insulation	0.044 inch	1.13 ± 0.03 mm
Inner Pair Jacket O.D.	118 inch	3.0 ± 1 mm
DC loop resistance at 20 ± 5 C	260 Ω/km (max.)	
Capacitance at 1 kHz	70 ± nF/km	
Nominal Impedance (ohms)	90 ± 20 Ω	
Nominal velocity of Propagation	66%	
Next	< 0.1 MHz	> 75 dB
Nominal Attenuation	0.1 MHz	> 1.4 dB
	1.0 MHz	> 3.6 dB
	4.0 MHz	> 7.5 dB

### STAR QUAD (1172A)

Analog  
Mobile



Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Quads	Standard Lengths		Std. Unit kg	Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm

#### Product Description

Quad snakes are used for connection of multiple microphones to patch panels, mixer boards, or sound rooms. Quad technology offers the best noise rejection for mic and line level applications. Belden's flexible quad snakes feature a Belden patented **French Braid®** for superior noise rejection.

Each quad construction includes four 26 AWG stranded (30 x 40) bare copper polyethylene insulated conductors, color-coded Blue, White, Blue with a White stripe, and White with a Blue stripe. A patented copper <b>French Braid®</b> is applied over the four conductors with a 26 AWG (7 x 38) tinned copper drain wire. Each quad is individually jacketed using a PVC internal jacket, available in the following color code: Brown (1), Red (2), Orange (3), Yellow (4), Green (5), Blue (6), Violet (7), Grey (8), White (9), Black (10), Beige (11), Pink (12), and Grey (numbered from 13 to 24 quads). It includes an additional overall 20 AWG tinned copper drain wire. Quad snakes are available in an overall Black jacket.	<b>26 Gage</b> (0.14 mm <sup>2</sup> )  Stranded Conductors (30 x 40)  <b>Polyethylene Insulated</b>	7884A	2	500 1000	152.4 304.8	42.5 85.0	0.069	1.753	0.458	11.63
		7885A	4	500 1000	152.4 304.8	63.0 126.0	0.057	1.448	0.498	12.65
		7886A	8	500 1000	152.4 304.8	159.0 318.0	0.09	2.286	0.782	19.86
		7887A	12	500 1000	152.4 304.8	172.0 344.0	0.085	2.159	0.828	21.03
		7888A	16	500 1000	152.4 304.8	234.0 468.0	0.097	2.464	0.938	23.83
		7889A	24	500 1000	152.4 304.8	376.0 752.0	0.142	3.607	1.232	31.29

#### Quad Dimensions & Electricals

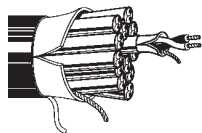
Nominal O.D. Conductor	0.02 inch	0.508 mm
Nominal O.D. Insulation	0.045 inch	1.143 mm
Inner Pair Jacket O.D.	0.057 inch	3.988 mm
Nominal D.C.R. Conductor	36 Ω/1.000f	11.8 Ω/100 m
Nominal D.C.R. Shield	6.8 Ω/1.000f	2.23 Ω/100 m
Nominal Impedance (ohms)	40 Ω	
Nominal Velocity of Prop.	66%	
Nominal Capacitance between conductors @ 1 KHz	39.2 pF/ft.	128.6 pF/m
Nominal Capacitance between conductors in Quad configuration	57.4 pF/ft.	188.4 pF/m



# Multicore Cables – digital (AES/EBU)

## PERFORMANCE

Digital  
Installation



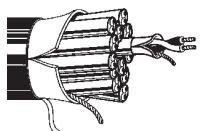
Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Pairs	Standard Lengths		Std. Unit kg	Outer Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm

### Product Description

Belden's exclusive **Beldfoil®** shield is key to the **flexible 78-series**. [High-flexibility, long flex life](#) and [excellent EMI/RFI protection](#). This unique construction provides a 10–20% longer life over standard spiral shields, greater flexibility than conventional braid shields, and a 50% reduction in triboelectric and microphonic noise over either. [Error-free transmissions over extended distance](#). Jacketed pairs are [individually numbered](#) and [color coded](#) for easy identification.

<p>Tinned copper, foamed HDPE insulated pairs color coded Blue &amp; White. Each pair individually shielded with bonded <b>Beldfoil®</b> aluminum-polyester shield. Individual pairs with numbered and color coded PVC jackets. Overall <b>Beldfoil®</b> aluminum-polyester shield. Overall slate Violet PVC jacket with nylon ripcord. Pair jackets and shields are bonded so that both strip simultaneously with automatic stripping equipment.</p> <p><b>Pair Dimensions &amp; Electricals</b></p> <p>Nominal O.D. Conductor .....0.024 inch 61 mm Nominal O.D. Insulation .....0.070 inch 1.79 mm Inner Pair Jacket O.D....0.167 inch 4.24 mm Nominal D.C.R. Conductor .....23.3 Ω/M' 76.4 Ω/km Nominal D.C.R. Shield .....18.9 Ω/M' 62.0 Ω/km Nominal Impedance (ohms).....110 ± 10 Ω Nominal velocity of Propagation.....76% CDR/CDR .....12.2 pF/ft. 42 pF/m CDR/SCR .....25 pF/ft. 82 pF/m Nominal Attenuation...2 MHz: 1.67 dB/100ft. 5.48 dB/100m 4 MHz: 2.11 dB/100ft. 6.92 dB/100m 5 MHz: 2.30 dB/100ft. 7.54 dB/100m 6 MHz: 2.46 dB/100ft. 8.06 dB/100m 12 MHz: 3.16 dB/100ft. 10.36 dB/100m 25 MHz: 4.22 dB/100ft. 13.84 dB/100m</p>	<p><b>26 Gage</b> (0.14 mm<sup>2</sup>)</p> <p>Stranded Conductors (7 x 32)</p> <p>NEC CMG CEC CMG</p>	<b>7891A</b>	2	500 1000	152.4 304.8	12.7 25.4	0.030	0.76	0.343	8.71
		<b>7890A</b>	4	250 1000	76.2 304.8	8.2 27.7	0.030	0.76	0.399	10.13
		<b>7880A</b>	8	250 500 1000	76.2 152.4 304.8	13.6 25.8 63.9	0.035	0.89	0.541	13.74
		<b>7892A</b>	12	500 1000	152.4 304.8	38.5 78.9	0.040	1.02	0.679	17.25
		<b>7893A</b>	16	500 1000	152.4 304.8	49.9 108.8	0.050	1.27	0.770	19.56

Digital  
Installation



### Product Description

Belden's exclusive **Beldfoil®** shield is key to the **flexible 18-series**. [High-flexibility, long flex life](#) and [excellent EMI/RFI protection](#). This unique construction provides a 10–20% longer life over standard spiral shields, greater flexibility than conventional braid shields, and a 50% reduction in triboelectric and microphonic noise over either. [Error-free transmissions over extended distance](#). Jacketed pairs are [individually numbered](#) and [color coded](#) for easy identification.

<p>Tinned copper, foamed HDPE insulated pairs color coded Blue &amp; White. Each pair individually shielded with bonded <b>Beldfoil®</b> aluminum-polyester shield. Individual pairs with numbered and color coded PVC jackets. Overall <b>Beldfoil®</b> aluminum-polyester shield. Overall slate Violet PVC jacket with nylon ripcord. Pair jackets and shields are bonded so that both strip simultaneously with automatic stripping equipment.</p> <p><b>Pair Dimensions &amp; Electricals</b></p> <p>Nominal O.D. Conductor .....0.024 inch 61 mm Nominal O.D. Insulation .....0.070 inch 1.79 mm Inner Pair Jacket O.D....0.167 inch 4.24 mm Nominal D.C.R. Conductor .....23.3 Ω/M' 76.4 Ω/km Nominal D.C.R. Shield .....18.9 Ω/M' 62.0 Ω/km Nominal Impedance (ohms).....110 ± 10 Ω Nominal velocity of Propagation.....76% CDR/CDR .....13 pF/ft. 43 pF/m CDR/SCR .....25 pF/ft. 82 pF/m Nominal Attenuation...2 MHz: 1.30 dB/100ft. 4.26 dB/100m 4 MHz: 1.56 dB/100ft. 5.11 dB/100m 5 MHz: 1.70 dB/100ft. 5.57 dB/100m 6 MHz: 1.81 dB/100ft. 5.93 dB/100m 12 MHz: 2.28 dB/100ft. 7.48 dB/100m 25 MHz: 3.08 dB/100ft. 10.10 dB/100m</p>	<p><b>24 Gage</b> (0.22 mm<sup>2</sup>)</p> <p>Stranded Conductors (7 x 32)</p> <p>NEC CMG CEC CMG</p>	<b>1803F</b>	4	500 1000	152.4 304.8	26.3 48.5	0.030	0.76	0.485	12.32
		<b>1805F</b>	8	500 1000	152.4 304.8	47.2 93.0	0.035	0.89	0.661	16.79
		<b>1806F</b>	12	500 1000	152.4 304.8	70.8 146.1	0.040	1.02	0.829	21.06
		<b>1850F</b>	16	500 1000	152.4 304.8	95.3 186.0	0.050	1.27	0.944	23.98
		<b>1852F</b>	24	500 1000	152.4 304.8	146.1 293.0	0.060	1.52	1.205	30.61
		<b>1854F</b>	32	500 1000	152.4 304.8	196.9 383.7	0.070	1.78	1.346	34.19

# Belden Audio / Video Cables

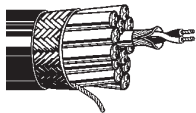
## Multicore Cables – digital (AES/EBU)

### FLEX

Digital

Installation

FRNC/  
LSNH



Description	Part No.	No. of Pairs	Standard Lengths		Std. Unit kg	Outer Jacket Thickness		Nominal O.D.		Burning Energy	Crush Resistance
			ft.	m		Inch	mm	Inch	mm	KJ/m (nom)	N/Km

### Product Description

Belden's **46-digital-series** is specially engineered to meet the requirements of the AES/EBU specification. The cable is [very flexible](#) and has a small outer diameter for use in applications where space is limited. [Flame retardancy according to IEC 332-3C](#). Jacketed pairs are individually numbered and [color coded](#) for easy identification.

Tinned copper, single-insulation: PE, each pair of a Blue and a White insulated single and shielded first with a polyester foil and then with a spiral screening of 0.10 mm tinned copper (> 90% coverage). Each screened pair jacket with a numbered flexible FRNC jacket. Pairs twisted together in a layer with a central filler and shielded with a non-woven foil. Overall tinned braid (> 90% coverage). Jacket matte soft flexible FRNC, color code: Grey (RAL 7032).	<b>26 Gage</b> (0.14 mm <sup>2</sup> ) (18 x 0.1)	<b>46959</b>	1	1640	500	11.0	0.059	1.50	0.154	3.9	283	85
		<b>46923</b>	2	1640	500	50.0	0.079	2.00	0.331	8.4	913	150
		<b>46924</b>	3	1640	500	65.0	0.079	2.00	0.350	8.9	1078	200
		<b>46925</b>	4	1640	500	75.0	0.079	2.00	0.374	9.5	1271	250
		<b>46926</b>	6	1640	500	95.0	0.079	2.00	0.449	11.4	1672	300
		<b>46935</b>	8	1640	500	120.0	0.079	2.00	0.492	12.5	2023	400
		<b>46936</b>	10	1640	500	135.0	0.079	2.00	0.524	13.3	2325	500
		<b>46937</b>	12	1640	500	160.0	0.079	2.00	0.559	14.2	2644	600
	<b>46938</b>	16	1640	500	200.0	0.079	2.00	0.642	16.3	3292	750	

### Pair Dimensions & Electricals

Nominal O.D. Insulation.....	0.044 inch	1.13 mm
Inner Pair Jacket O.D.....	0.114 inch	2.90 mm
DC loop resistance at 20 ± 5 C.....	260 Ω/km (max.)	
Capacitance at 1 kHz.....	nom. 56 pF/m	
Nominal Impedance (0.1–6 MHz).....	110 Ω ± 10 %	
Nominal Impedance (> 10 MHz).....	110 Ω ± 20 %	
Nominal velocity of Propagation.....	60 %	
Nominal Attenuation.....	2 MHz: 0.95 dB/100ft.	3.1 dB/100m
	4 MHz: 1.89 dB/100ft.	6.2 dB/100m
	5 MHz: 2.23 dB/100ft.	7.3 dB/100m
	6 MHz: 2.50 dB/100ft.	8.2 dB/100m
	12 MHz: 3.99 dB/100ft.	13.1 dB/100m
	25 MHz: 6.40 dB/100ft.	21.0 dB/100m

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of CDR	Standard Lengths		Std. Unit kg	AWG (stranding)	Insulation Thickness		Jacket Thickness		Nominal O.D.		Nom. Imp. (ohms)	Nominal Capacitance	
			ft.	m			Inch	mm	Inch	mm	Inch	mm		pF/ft.	pF/m

### PATCH for FLEX

Digital

Installation

FRNC/  
LSNH



### Product Description

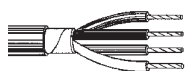
Belden **40550** is the [one pair patch cable](#) for the flexible 46-digital-series. The cable is [very flexible](#) and has a [small outer diameter](#) for use in applications where space is limited. [Flame retardancy according to IEC 332-1](#).

<b>26 Gage</b> (0.14 mm <sup>2</sup> )	<b>40550</b>	1	1640	500	20.0	26 (18 x 0.1)	0.008	0.20	0.020	0.50	0.114	2.90	110±20%	17	56
Tinned copper, single-insulation: PE, each pair of a Blue and a White insulated single and shielded first with a polyester foil and then with a spiral screening of 0.10 mm tinned copper (> 90% coverage) and drain wire. Jacket matte soft flexible FRNC, color code: Grey (RAL 7032).															

# Speaker Cables

Description UL AWM Style	Part No. UL NEC C(UL) CEC Type	No. of Cond.	Standard Lengths		Std. Unit kg	Insulation Thickness		Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm	Inch	mm

## PERFORMANCE



Analog  
Mobile

### Product Description

Belden **1810A / 1811A** are [high flex](#) multiconductor cables for [Bi-amp](#) and [Tri-amp](#) connections. Particularly suitable for use in [Neutrik SPEAKON](#) connectors.

High Flex Design  14 Gage (2.1 mm <sup>2</sup> )	Part No.	No. of Cond.	Standard Lengths		Std. Unit kg	Insulation Thickness		Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm	Inch	mm
	<b>1810A</b>	4	1000	304.8	52.6	0.025	0.64	0.040	1.02	0.390	9.91
	Bare copper, PVC insulated, conductors cabled with fillers, paper wrap, overall Black matte finish PVC jacket. Color code: Red, Green, White and Black. Compatible with Neutrik Speakon Connectors.										
	<b>1811A</b>	8	1000	304.8	92.2	0.025	0.64	0.040	1.02	0.515	13.08
	Bare copper, PVC insulated, conductors cabled with fillers, paper wrap, overall Black matte finish PVC jacket. Color code: Brown, Red, Orange, Yellow, Green, White, Blue and Black. Compatible with Neutrik Speakon Connectors.										

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of CDR	Standard Lengths		Std. Unit kg	(Stranding)	D.C.R. Ω/km	Jacket Thickness		Nominal O.D.	
			ft.	m				Inch	mm	Inch	mm

## STANDARD



Analog  
Mobile

### Product Description

Belden's [standard speaker cables](#) are suitable for speaker applications.

8 x 2.5 mm <sup>2</sup>	<b>43907</b>	8	3280	1000	280	(50 x 0.25)	< 8	0.114	2.90	0.492	12.50
4 x 2.5 mm <sup>2</sup>	<b>46379</b>	4	3280	1000	165	(50 x 0.25)	< 8	0.114	2.90	0.394	10.00
2 x 4.0 mm <sup>2</sup>	<b>46380</b>	2	3280	1000	120	(56 x 0.30)	< 4.5	0.138	3.50	0.354	9.00
2 x 2.5 mm <sup>2</sup>	<b>46381</b>	2	3280	1000	72	(50 x 0.25)	< 8	0.114	2.90	0.317	8.05
2 x 1.5 mm <sup>2</sup>	<b>46382</b>	2	3280	1000	78	(32 x 0.23)	< 13	0.098	2.50	0.276	7.00

Bare copper, PVC insulated. Matte PVC jacket in Black or Grey. Color code: Black, Red.

## ACTIVE



Analog  
Mobile

### Product Description

High flexible cable, [suitable for DC power supplies and loudspeaker connections](#). The cable has stranded conductors and an overall foil screen.

3 x 1.00 mm <sup>2</sup>	<b>43908</b>	3 + 2	328	100	30	1.00 mm <sup>2</sup> (32 x 0.20)	< 13	0.098	2.50	0.464	11.80
2 x 0.14 mm <sup>2</sup>			1640	500	150						

Copper, polyethylene insulated, double braid. PVC jacket in Black.

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	(Stranding)	Insulation Thickness		Nominal O.D.	
		ft.	m			Inch	mm	Inch	mm

## PARALLEL ZIP



Analog  
Mobile

### Product Description

Belden's [standard speaker cables](#) are suitable for speaker applications.

60°C <b>16 Gage</b> (2 x 1.3 mm <sup>2</sup> ) Stranded Conductors	<b>9716</b>	1000	304.8	26.3	(26 x 30)	0.027	0.69	0.115	2.92
								x 0.230	x 5.84

Copper, PVC insulated, *Parallel*. 1 conductor tinned, 1 conductor bare. Suggested working voltage: 300V. Stock color: Clear.  
**Also available in different sizes (8782, 9712, 8649, 9708, 9717, 9718)**



# Belden Audio / Video Cables

## Special Cables

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of CDR/ Pairs	Standard Lengths		Std. Unit kg	AWG (stranding)	D.C.R. Ω/km	Jacket Thickness		Nominal O.D.		Nominal Capacitance	
			ft.	m				Inch	mm	Inch	mm	pF/ft.	pF/m

### INSTRUMENT



Analog  
Mobile

#### Product Description

Belden's cable, part no. **46378**, is [very flexible](#) and is used for connecting musical instruments.

24 Gage (0.25 mm <sup>2</sup> )	46378	1	328 1640	100 500	40	24 (7 x 0.02)	90	0.081	2.05	0.244	6.20	33	110
					Bare copper, foamed polythene, conducting PVC, > 90% spiral screen copper braid (48 x 0.122). One Red conductor, matte PVC jacket in Red, Green, Yellow, Blue and Black.								

### GUITAR



Analog  
Mobile

#### Product Description

Belden's cable, part no. **46377**, is [very flexible](#) and is particularly suitable for use with guitars.

24 Gage (0.22 mm <sup>2</sup> )	46377	1	820 1640	250 500	42	24 (28 x 0.1)	80	0.104	2.65	0.286	7.20	21	70
					Bare copper, foamed polythene, conducting PVC, > 95% spiral screen copper braid (58 x 0.122). One Red conductor, matte PVC jacket in Black.								

### INSTRUMENT/RUBBER



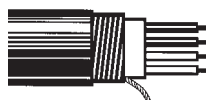
Analog  
Mobile

#### Product Description

Belden **8410** is [rubber insulated](#), rayon braid, tinned copper braid shield, cotton yarn wrap [and rubber jacket](#).

60°C	8410	1	500	152.4	8.8	25 (7 x 33)	-	0.024	0.61	0.245	6.22	33	108
25 Gage (0.16 mm <sup>2</sup> )					3 strands copper, 4 strands tinned copper-covered steel. Rayon braid, rubber insulated. Rayon braid, 80% tinned copper braid shield. Cotton yarn wrap, Black EPDM rubber jacket. Suggested working voltage: 300V.								

### DMX 512



Analog  
Mobile

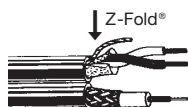
#### Product Description

Double overall screened two pair cable specifically for [DMX 512 lighting control applications](#). The two additional conductors are used for feedback on digital controls, according to RS-485 data cable specification.

80°C 100% Shield Coverage UL 2717	43906	2	1640 3280	500 1000	20	22 (7 x 0.25)	-	0.028	0.71	0.26	6.8	34	112
22 Gage (0.34 mm <sup>2</sup> )					Copper, PE insulated, conductors cabled in pairs (color code: White and Green, Red and Black, each pair stranded together), drain wire, overall braid shield (> 80% coverage), Black PVC jacket.								

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

### AUDIO/VIDEO



Analog  
Mobile

#### Product Description

Belden **9265** is made for the interconnection of cameras requiring [one coax for video](#) and [one pair for audio](#). Another common application for this design is the connection of CCTV surveillance cameras.

Beldfoil® UL 20006 30V 60°C  Electronic News Gathering (ENG), Field Production (EFP) and CCTV Applications	9265  NEC CL2	500	152.4	13.8	2 Cond. 22 (7 x 30) 0.76 mm tinned copper 15.0 Ω/M' 49.2 Ω/km	PVC		0.242 x 0.470	6.15 x 11.94	1 Pair Beldfoil® shielded 100% shield coverage 11.0 Ω/M' 36.1 Ω/km	35	58%	51.0	167.3	-	-	-
		1000	304.8	26.0		0.054	1.37				Color code: Black, Red. <b>Also available: 1 Coax + 2 Pair Audio 0.34 mm<sup>2</sup> (7721A in many colors)</b>						
		1 Coax 22 (7 x 30) 0.76 mm bare copper 15.0 Ω/M' 49.2 Ω/km	Foam Polyethylene			75	78%	17.3	56.8		1	0.3	0.98				
			0.146	3.71							5	0.7	2.3				
Coax O.D.		0.242	6.15	Black PVC jacket. Siamese Type Cable RG-59/U Type with Beldfoil® aluminium- polyester shielded twisted pair.				10	1.0	3.3							
Coax O.D.				50	2.1	6.9											
Coax O.D.		100	3.0	9.8													

[Back to Content](#)

# Triax Cables

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

## TRIAx 8



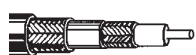
Digital  
Mobile

### Product Description

Belden **7783A** is a standard Triaxial cable with an impedance of **75 ohms** and is used to interconnect video cameras to related equipment.

80°C	<b>7783A</b>	1640 3280	500 1000	55.8 111.6	20 (19 x 32) 0.99 mm silver plated copper	Foam Polyethylene	0.331	8.4	Silver plated copper braid (90%) bare copper braid (80%) Inner 12 Ω/km Outer 10 Ω/km	75	83%	16.5	54	71.5	1.9	6.2				
RG-59/U Type  High Flex Version						0.178	4.52			Polyethylene insulation between braids. With Red <b>Belflex®</b> jacket suitable for extreme outdoor applications (-50 +80 °C).				88.5	2.1	6.9				
										135	2.6	8.5	180	3.1	10.2	270	3.9	12.8	750	6.8
						Structure Return Loss														
						21 dB	5 - 850 MHz													
						15 dB	850 - 3000 MHz													

## TRIAx 9



Digital  
Mobile

### Product Description

Belden **1856A** standard Triaxial cable for the ultimate **increase in flexibility** with exceptional electrical characteristics for **excellent picture quality over extended transmission distances**.

80°C	<b>1856A</b>	500 1000	152.4 304.8	17.0 34.9	20 (solid) 0.81 mm bare copper 10.6 Ω/M' 32.8 Ω/km	Foam Polyethylene	0.360	9.14	2 bare copper braids 95% shield coverage Inner 2.5 Ω/M' 8.2 Ω/km Outer 1.6 Ω/M' 5.3 Ω/km	75	83%	16.2	53.1	71.5	2.2	7.2				
RG-59/U Type						0.143	3.68			Polyethylene insulation between braids. Red, Yellow, Green, Blue, Violet or Black <b>Belflex®</b> jacket suitable for extreme outdoor applications (-50 +80 °C). 100% Sweep tested.				88.5	2.4	7.9				
										135	3.0	9.8	180	3.4	11.2	270	4.2	13.8	750	7.1
						Structure Return Loss														
						21 dB	5 - 850 MHz													
						15 dB	850 - 3000 MHz													

## TRIAx 11



Digital  
Mobile

### Product Description

Belden **7784A** is a standard Triaxial cable with an impedance of **75 ohms** and is used to interconnect video cameras to related equipment.

80°C	<b>7784A</b>	1640 3280	500 1000	84.4 172.8	16 (19 x 29) 1.42 mm silver plated copper	Foam Polyethylene	0.433	11.0	Silver plated copper braid (90%) bare copper braid (80%) Inner 10 Ω/km Outer 8 Ω/km	75	82%	16.5	54	71.5	1.4	4.7				
RG-59/U Type  High Flex Version						0.256	6.50			Polyethylene insulation between braids. Red <b>Belflex®</b> jacket suitable for extreme outdoor applica- tions (-50 +80 °C). <b>Also available:</b> <b>Bare Copper (Solid)</b> <b>7784E - PVC</b> <b>7784ENH - FRNC</b> <b>7784EPU - PUR</b>				88.5	1.6	5.2				
										135	2.0	6.6	180	2.4	7.9	270	3.0	9.8	750	5.2
						Structure Return Loss														
						21 dB	5 - 850 MHz													
						15 dB	850 - 3000 MHz													

## TRIAx 14



Digital  
Mobile

### Product Description

Belden **7785A** is a standard Triaxial cable with an impedance of **75 ohms** and is used to interconnect video cameras to related equipment.

80°C	<b>7785A</b>	1640	500	139.6	13 (19 x 25) 2.21 mm silver plated copper	Foam Polyethylene	0.571	14.5	Silver plated copper braid (90%) bare copper braid (80%) Inner 3 Ω/km Outer 3 Ω/km	75	82%	16.5	54	71.5	1.1	3.6				
RG-59/U Type  High Flex Version						0.382	9.70			Polyethylene insulation between braids. Red <b>Belflex®</b> jacket suitable for extreme outdoor applications (-50 +80 °C).				88.5	1.2	3.9				
										135	1.5	4.9	180	1.8	5.9	270	2.2	7.2	750	3.6
						Structure Return Loss														
						21 dB	5 - 850 MHz													
						15 dB	850 - 3000 MHz													

# Belden Audio / Video Cables

## Video Cables – analog

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

### STANDARD



Analog  
Mobile

#### Product Description

Belden **8241** standard [analog](#) video cable with an impedance of **75 ohms** is typically used in video applications such as video equipment rack wiring, CCTV, MATV and color or monochrome video monitor hook-ups.

UL 1354 30 V 80°C RG-59/U Type 0.6/3.7	8241 NEC CMX CEC CMX	U-500		9.1	23 (solid) 0.58 mm bare copper covered steel 47 Ω/M' 154.2 Ω/km	Polyethylene		0.242	6.15	Bare copper braid 95% shield coverage 2.6 Ω/M' 8.5 Ω/km	75	66%	20.5	67.3	1	0.6	2.0			
		500	U-152.4			18.7	0.146				3.71	10	1.1	3.6						
		1000	304.8	17.3							PVC jacket (Red, Yellow, Green, Light Blue, White, Orange and Black) <b>Also available: 8241A, 8241B, 8241F</b>				50	2.4	7.9			
		2000	609.6	36.2							100	3.4	11.2		100	3.4	11.2			
		5000 [Black only]	1524.0	89.1							200	4.9	16.1		200	4.9	16.1			
					400	7.0	23.0							400	7.0	23.0		400	7.0	23.0
					700	9.7	31.8							700	9.7	31.8		700	9.7	31.8
					900	11.1	36.4							900	11.1	36.4		900	11.1	36.4
					1000	12.0	39.4							1000	12.0	39.4		1000	12.0	39.4



Analog  
Mobile

#### Product Description

Belden **9259** standard [flexible](#) video cable with an impedance of 75 ohms.

UL 1354 30 V 80°C 0.7/3.7	9259 NEC CM CEC CM	100		4.0	22 (7 x 30) 0.76 bare copper 15.0 Ω/M' 49.2 Ω/km	Foam Polyethylene		0.242	6.15	Bare copper braid 95% shield coverage 2.6 Ω/M' 8.5 Ω/km	75	78%	17.3	56.8	1	0.3	1.0
		U-500	U-152.4			18.4	0.146				3.71	10	0.9	3.0			
		500	152.4	18.1							Black PVC jacket. For CCTV applications.				50	2.1	6.9
		U-1000	U-304.8	35.7							100	3.0	9.8		100	3.0	9.8
		1000	304.8	34.6							200	4.5	14.8		200	4.5	14.8
											400	6.6	21.7		400	6.6	21.7
											700	8.9	29.2		700	8.9	29.2
											900	10.1	33.1		900	10.1	33.1
											1000	10.9	35.8		1000	10.9	35.8



Analog  
Mobile

#### Product Description

Belden **9248** standard analog video cable [with Duofoil® and tinned copper braid](#).

UL 1354 30 V 80°C RG-6 1.0/4.6	9248 NEC CM CEC CM	U-500		18.1	18 (solid) 0.040 bare copper 6.4 Ω/M' 21.0 Ω/km	Gas Injected*		0.270	6.86	Duofoil® +61% tinned copper braid 100% shield coverage 5.6 Ω/M' 18.4 Ω/km	75	82%	16.2	53.1	1	0.3	1.0
		500	U-152.4			18.1	0.180				4.57	10	0.7	2.3			
		U-1000	U-304.8	35.7							Black PVC jacket. 100% sweep tested. 5 – 450 MHz.				50	1.5	4.9
		1000	304.8	38.2							100	2.0	6.6		100	2.0	6.6
		1640	500	60.9							200	2.8	9.2		200	2.8	9.2
		3280	1000	117.6							400	4.0	13.1		400	4.0	13.1
											700	5.3	17.4		700	5.3	17.4
											900	6.1	20.0		900	6.1	20.0
											1000	6.5	21.3		1000	6.5	21.3

\* Gas injected foam high density Polyethylene.



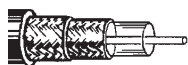
Analog  
Mobile

#### Product Description

Belden **9292** standard [RG-11](#) video cable [with Duofoil® and tinned copper braid](#).

80°C RG-11 1.6/7.2	9292	1000		76.1	14 (solid) 0.064 bare copper 2.6 Ω/M' 8.5 Ω/km	Foam Polyethylene		0.405	10.29	Duofoil® +61% tinned copper braid 100% shield coverage 3.0 Ω/M' 9.8 Ω/km	75	78%	17.3	56.7	1	0.17	0.6
		U-500	U-152.4			18.1	0.285				7.24	10	0.50	1.6			
		500	152.4	16.4							Black PVC jacket. 100% sweep tested. 5 – 450 MHz.				50	1.0	3.3
		1000	304.8	33.3							100	1.4	4.6		100	1.4	4.6
											200	2.1	6.9		200	2.1	6.9
											400	2.9	9.5		400	2.9	9.5
											700	3.9	12.8		700	3.9	12.8
											900	4.4	14.4		900	4.4	14.4
											1000	4.7	15.4		1000	4.7	15.4

### DOUBLE BRAID



Analog  
Digital  
Mobile

#### Product Description

Belden **8281** standard [analog and digital](#) video cable with an impedance of **75 ohms** and [double braided shield](#) for use in noisy environment applications.

80°C Double Braided RG-59/U Type 0.8/5.0	8281	500		16.4	20 (solid) 0.78 mm bare copper 9.9 Ω/M' 32.5 Ω/km	Polyethylene		0.305	7.75	Tinned copper double braid 98% shield coverage 1.1 Ω/M' 3.6 Ω/km	75	66%	20.5	68.9	71.5	2.1	6.9
		500	U-152.4			18.1	0.198				5.03	135	3.0	9.8			
		1000	304.8	33.3							Red, Yellow, Green, Light Blue, White, Orange or Black polyethylene jacket. 100% Sweep tested. <b>Also available: 8281B, 8281F</b>				270	4.3	14.1
											360	5.1	16.7		360	5.1	16.7
											540	6.3	20.7		540	6.3	20.7
											750	7.6	24.9		750	7.6	24.9
											1500	12.0	39.4		1500	12.0	39.4
											3000	19.1	62.6		3000	19.1	62.6

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# Video Cables – digital

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

## SMALL



Digital  
Mobile

### Product Description

Belden **1855A** Digital Video Coax. This small, compact cable is designed as an interconnect cable for HDTV transmission equipment in mobile trucks, and can also be used as digital video patch cord in mobile units or studios. Its light weight and compact size provide an advantage, especially in truck applications where space is at a premium and axle weight limitations must be considered. Its solid conductor makes it easy to connectorize.

75°C  SDI/HDTV Digital Video  Sub-Miniature RG-59/U Type 0.6/2.6	1855A  NEC CMR CEC CMR  	500 [Black only]	152.4	8.2	23 (solid) 0.58 mm bare copper 20.1 Ω/M' 65.9 Ω/km	Gas Injected Foam HDPE		0.159	4.03	Duofoil® +95% tinned copper braid 7.6 Ω/M' 24.9 Ω/km	75	82%	16.5	54.1	71.5 135 270 360 540 750 3000	2.9 3.8 5.4 6.2 7.7 9.6 13.0	10.0 12.5 17.7 20.3 25.3 31.5 42.6 60.7
		1000	304.8	13.3		0.102	2.59				Structure Return Loss 23 dB - 850 MHz 21 dB 850 - 3000 MHz		Overall PVC jacket: Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black. 100% Sweep tested. <b>On request:</b>				

## PRECISION



Digital  
Mobile

### Product Description

Belden **1505A** digital video cable is similar to 1694A but smaller O.D. diameter and is made for critical analog and digital video circuits and high quality applications. Should be used where superior signal integrity is required.

75°C  SDI/HDTV Digital Video  RG-59/U Type 0.8/3.7	1505A  NEC CMR CEC CMR  	500 [Black only]	152.4	7.6	20 (solid) 0.81 mm bare copper 10.0 Ω/M' 32.8 Ω/km	Gas Injected Foam HDPE		0.235	5.97	Duofoil® +95% tinned copper braid 3.8 Ω/M' 12.5 Ω/km	75	83%	16.3	53.5	71.5 135 270 360 540 750 1500 3000	2.1 2.7 3.8 4.4 5.5 6.4 9.4 13.8	6.9 8.9 12.5 14.4 18.0 21.0 30.5 44.0
		1000	304.8	14.6		0.145	3.68				Structure Return Loss 23 dB - 850 MHz 21 dB 850 - 3000 MHz		Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White or Black PVC jacket. 100% Sweep tested. <b>Also available:</b> YR46739				



Digital  
Mobile

### Product Description

Belden **1505F** is an exceptionally flexible version of our popular 1505A RG-59 digital video coax cable.

75°C  SDI/HDTV Video Patch  RG-59/U Type 0.8/3.7  High Flex Version	1505F  NEC CM CEC CM	1000	304.8	20.0	22 (7x29) 0.79 mm bare compacted copper* 12.2 Ω/M' 40.0 Ω/km	Gas Injected Foam HDPE		0.242	6.15	Tinned copper double braid 95% shield coverage 2.4 Ω/M' 7.8 Ω/km	75	80%	17.0	55.7	71.5 135 270 360 540 720 1500 3000	2.5 3.5 5.1 6.0 7.4 8.7 13.3 20.3	8.2 11.5 16.7 19.7 24.3 28.5 43.6 66.6
						0.145	3.68				Structure Return Loss 15 dB 5 - 3000 MHz		Red, Yellow, Green, Blue, Violet, White or Matte Black PVC jacket. 100% Sweep tested.				

## PERFORMANCE



Digital  
Mobile

### Product Description

Belden **1694A** digital video cable provides 20–30% lower attenuation than traditional precision video cables. This improved performance allows for error-free transmissions over extended distances.

75°C  SDI/HDTV Digital Video  RG-6/U Type 1.0/4.6	1694A  NEC CMP CEC CMR  	500 [Black only]	152.4	10.2	18 (solid) 1.01 mm bare copper 6.4 Ω/M' 21.0 Ω/km	Gas Injected Foam HDPE		0.275	6.99	Duofoil® +95% tinned copper braid 2.8 Ω/M' 9.2 Ω/km	75	83%	16.2	53.1	71.5 135 270 360 540 750 1500 3000	1.6 2.1 3.0 3.4 4.3 5.0 7.3 10.7	5.2 6.9 9.7 11.3 13.9 16.4 24.0 35.0
		1000	304.8	20.5		0.180	4.57				Structure Return Loss 23 dB - 850 MHz 21 dB 850 - 3000 MHz		Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White or Black PVC jacket. 100% Sweep tested. <b>Also available:</b> YR46680				

\*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.



# Belden Audio / Video Cables

## Video Cables – digital

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

### HIGH QUALITY



Digital  
Mobile

#### Product Description

Belden **7855A** video cable is made for [excellent picture quality over extended transmission distances](#).

75°C	7855 A	1000	304.8	58.26	16 (solid) 1.3 mm bare copper 1.2 Ω/M' 3.9 Ω/km	Gas Injected Foam HDPE	0.320	8.13	Duofoil® + 95% tinned copper braid 1.7 Ω/M' 5.6 Ω/km	75	84%	16.1	52.8	71.5	1.4	4.4
SDI/HDTV Digital Video RG-7/U Type 1.3/5.7						0.225	5.71			Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, or Black PVC jacket.				135	1.8	5.8
										270	2.5	8.1				
										360	2.9	9.4				
										540	3.6	11.7				
										750	4.3	14.0				
1500	6.1	20.0														
3000	8.7	28.5														

### LONG RUN



Digital  
Installation

#### Product Description

Belden **7731A** Digital Video Coax. This RG-11/U type coaxial cable is intended for internal studio use, [meeting the Society of Motion Picture & Television Engineers \(SMPTE\) 292M standard](#) for Bit-Serial Digital Interface for High-Definition Television (HDTV) Systems.

75°C	7731 A	1000 4000	304.8 1219.2	42.8 212.3	14 (solid) 1.62 mm bare copper 2.5 Ω/M' 8.2 Ω/km	Gas Injected Foam HDPE	0.405	10.3	Duofoil® +95% tinned copper braid 1.5 Ω/M' 4.9 Ω/km	75	85%	16.0	52.4	71.5	1.1	3.6
SDI/HDTV Digital Video RG-11/U Type 1.6/7.2						0.285	7.24			Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White or Black PVC jacket. 100% Sweep tested.				135	1.5	4.8
										270	2.1	6.9				
										360	2.5	8.0				
										540	3.1	10.0				
										750	3.7	12.0				
1500	5.5	18.0														
3000	8.2	26.9														
Structure Return Loss 23 dB - 850 MHz 21 dB 850 - 3000 MHz										Also available:  YR47003				Burning Energy: 7000 kJ/m		

### PERFORMANCE/small



Digital  
Mobile

#### Product Description

Belden **1865A** digital cable where [small size](#) is required.

75°C	1865 A	1000	304.8	13.9	25 (19 x 37) 0.53 mm bare copper 27.4 Ω/M' 81.0 Ω/km	Gas Injected Foam HDPE	0.150	3.81	Duofoil® + 95% tinned copper braid 5.4 Ω/M' 17.7 Ω/km	75	82%	16.5	54.1	71.5	3.7	12.1
Sub-Miniature RG-59/U Type 0.5/2.4						0.094	2.39			Overall PVC jacket: Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black. 100% Sweep tested.				135	5.0	16.4
										270	7.1	23.3				
										360	8.2	26.9				
										540	10.1	33.1				
										750	12.0	39.5				
1500	16.7	54.8														
3000	23.3	76.4														

### STANDARD/FRNC



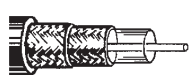
Digital  
Mobile

#### Product Description

Belden **1855ENH** is specially engineered to meet the requirements of the AES/EBU specification. The cable is flexible and has a [small outer diameter](#) for use in applications where space is limited. [Flame retardancy according to IEC 332-3C](#).

75°C	1855ENH	328 1640 3280	100 500 1000	3.0 15.0 30.0	22 (solid) 0.6 mm tinned copper 72 Ω/km	Gas Injected	0.199	4.50	Duofoil® + 90% tinned copper braid	75	84%	16.1	52.8	71.5	2.62	8.6
SDI Digital Video RG-59/U Type 0.6/2.8						0.110	2.8			Green with FRNC jacket. <b>For the UK market YR46865 SDV-LFH (Violet).</b>				135	3.51	11.5
										270	4.91	16.1				
										360	5.67	18.6				
										540	6.95	22.8				
										750	8.20	26.9				
										1500	11.80	38.7				
3000	17.10	56.1														

### DOUBLE BRAID



Analog  
Digital  
Mobile

#### Product Description

Belden **43187** standard [analog and digital](#) video cable with an impedance of [75 ohms](#) and [double braided shield](#) for use in noisy environment applications.

75°C	43187	328 1640	100 500	7.5 37.5	23 (solid) 0.6 mm bare copper	Polyethylene	0.244	6.20	Soft annealed copper double braid 91% coverage	75	66%	20.5	68.9	1	0.61	2.0
Double Braided RG-59/U Type 0.6/3.7						0.143	3.65			Cream PVC jacket.				10	1.13	3.7
										135	3.66	12.0				
										270	5.00	16.4				
										360	5.85	19.2				
										540	7.16	23.5				
										750	8.60	28.2				
										1000	9.91	32.5				

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# Video Multicore Cables – analog

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

## RGB/miniture



Analog  
Mobile

### Product Description

Belden **152xA-series** are used for sending Red, Green and Blue signals through separate coaxes. All Belden RGB cables are [pre-timed to less than 5.0 ns delay difference](#) between each coax. This allows [installation with no TDR](#).

Belden's 152xA-series multicore video cables are "pre-timed" to this specification: **nom. delay < 4.0 ns/m**

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m
1354 30V 60°C 0.3/2.6 NEC CL2	<b>1520A</b> 3-Coaxial	500 1000	152.4 304.8	10.8 21.5	30 (7 x 38) 0.30 mm tinned copper 103.2 Ω/M' 337.9 Ω/km	Foam High Density Polyethylene	0.283	7.19	(Coaxes) Duofoil® +90% tinned copper braid (overall) <b>Beldfoil</b> ® 100% shield coverage 9.5 Ω/M' 31.2 Ω/km	75	78%	17.3	56.7	Overall Black PVC jacket; inner PVC jackets color coded: Red, Green and Blue. 100% Sweep tested.	1	0.8	2.6
															5	1.5	4.9
															10	2.2	7.2
															30	4.0	13.1
	50	5.4	17.7														
	100	8.2	26.9														
	<b>1521A</b> 4-Coaxial	500 1000	152.4 304.8	12.4 25.3	30 (7 x 38) 0.30 mm tinned copper 103.2 Ω/M' 337.9 Ω/km	Foam High Density Polyethylene	0.310	7.87	(Coaxes) Duofoil® +90% tinned copper braid (overall) <b>Beldfoil</b> ® 100% shield coverage 9.5 Ω/M' 31.2 Ω/km	75	78%	17.3	56.7	Overall Black PVC jacket; inner PVC jackets color coded: Red, Green, Blue and White. 100% Sweep tested.	1	0.8	2.6
															5	1.5	4.9
															10	2.2	7.2
															30	4.0	13.1
	50	5.4	17.7														
	100	8.2	26.9														
<b>1522A</b> 5-Coaxial	500 1000	152.4 304.8	14.3 29.5	30 (7 x 38) 0.30 mm tinned copper 103.2 Ω/M' 337.9 Ω/km	Foam High Density Polyethylene	0.338	8.59	(Coaxes) Duofoil® +90% tinned copper braid (overall) <b>Beldfoil</b> ® 100% shield coverage 9.5 Ω/M' 31.2 Ω/km	75	78%	17.3	56.7	Overall Black PVC jacket; inner PVC jackets color coded: Red, Green, Blue, White and Yellow. 100% Sweep tested.	1	0.8	2.6	
														5	1.5	4.9	
														10	2.2	7.2	
														30	4.0	13.1	
50	5.4	17.7															
100	8.2	26.9															

## RGB



Analog  
Mobile

### Product Description

These bundled coaxial cables of the Belden **14xxB-series** are [very flexible](#). Ideal for use in graphics, animation and computer display applications.

Belden's 14xxB-series multicore video cables are "pre-timed" to this specification: **nom. delay < 4.0 ns/m**

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m
60°C 0.5/3.7	<b>1406B</b> 3-Coaxial	1000	304.8	32.7	26 (7 x 34) 0.48 mm bare copper 37.3 Ω/M' 122.4 Ω/km	Foam Polyethylene	0.388	9.86	Duofoil® +93% tinned copper braid 100% shield coverage 8.6 Ω/M' 28.2 Ω/km	75	78%	17.3	56.8	Overall matte Black PVC jacket. Inner PVC jacket color coded: Red, Green and Blue. 100% Sweep tested.	1	0.6	2.0
															5	1.3	4.2
															10	1.8	5.9
															30	3.1	10.2
	50	3.9	12.8														
	100	5.4	17.7														
	<b>1407B</b> 4-Coaxial	1000	304.8	40.6	26 (7 x 34) 0.48 mm bare copper 37.3 Ω/M' 122.4 Ω/km	Foam Polyethylene	0.455	11.56	Duofoil® +93% tinned copper braid 100% shield coverage 8.6 Ω/M' 28.2 Ω/km	75	78%	17.3	56.8	Overall matte Black PVC jacket. Inner PVC jacket color coded: Red, Green, Blue and White. 100% Sweep tested.	1	0.6	2.0
															5	1.3	4.2
															10	1.8	5.9
															30	3.1	10.2
	50	3.9	12.8														
	100	5.4	17.7														
<b>1417B</b> 5-Coaxial	1000	304.8	47.7	26 (7 x 34) 0.48 mm bare copper 37.3 Ω/M' 122.4 Ω/km	Foam Polyethylene	0.477	12.12	Duofoil® +93% tinned copper braid 100% shield coverage 8.6 Ω/M' 28.2 Ω/km	75	78%	17.3	56.8	Overall matte Black PVC jacket. Inner PVC jacket color coded: Red, Green, Blue, White and Yellow. 100% Sweep tested.	1	0.6	2.0	
														5	1.3	4.2	
														10	1.8	5.9	
														30	3.1	10.2	
50	3.9	12.8															
100	5.4	17.7															

# Belden Audio / Video Cables



## Video Multicore Cables – digital

Description UL AWM Style	Part No. UL NEC C (UL) CEC Type	No. of Cond.	Standard Lengths		Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

### VIDEOFLEX Mini High-Res



Digital  
Mobile

#### Product Description

Belden's **12xxR-series** are the industry's first cables to offer true 75 Ohm performance. With precise 75 Ohm Impedance, [whole-system performance is optimized](#). Mini High-Res component video cables are designed for **RGB and HDTV** applications.

Belden's Mini High-Res multicore video cables are "pre-timed" to this specification: **nom. delay < 4.0 ns/m**

75°C	Part No.	No. of Cond.	Standard Lengths (ft./m)	Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D. (Inch/mm)	Nominal O.D. (Inch/mm)	No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance (pF/ft./pF/m)	Nominal Attenuation (MHz/dB/100 ft./dB/100 m)
SDI/HDTV Digital Video	1277R	3	500/1000	152.4/304.8	15.9/31.8	25 (solid) 0.45 mm bare copper 6.4 Ω/M' 21.0 Ω/km	Foam PE 0.0919   2.33	0.320   8.13	Duofoil® +95% tinned copper braid	75   80%   17.0   55.7	1277R: Red, Green and Blue 1278R: Red, Green, Blue and White 1279R: Red, Green, Blue, White and Yellow 1280R: Red, Green, Blue, White, Yellow and Brown	5   1.17   3.8
	1278R	4	500/1000	152.4/304.8	16.8/33.6	Coax O.D. 0.351   8.92	50   3.7   12.1					
	1279R	5	500/1000	152.4/304.8	19.5/37.2	0.403   10.24	100   4.9   16.1					
	1280R	6	500/1000	152.4/304.8	23.1/46.3	0.423   10.74	200   6.7   22.0					

### VIDEOFLEX 778xA-series



Digital  
Mobile

#### Product Description

Videoflex with bundled **778xA-series** digital video cables is [small in size](#), and meets the needs of today's most demanding [graphics and television installations](#). A 6-coax design allows for buffered output of **RGBs** (Sync on green). A 12-coax version is also available for applications requiring multiple channels of video.

Belden's 778xA-series multicore video cables are "pre-timed" to this specification: **nom. delay < 4.0 ns/m**

23 Gage	Part No.	No. of Cond.	Standard Lengths (ft./m)	Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D. (Inch/mm)	Nominal O.D. (Inch/mm)	No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance (pF/ft./pF/m)	Nominal Attenuation (MHz/dB/100 ft./dB/100 m)
SDI/HDTV Digital Video	7787A	3	500/1000	152.4/304.8	22.7/44.9	23 (solid) 0.58 mm bare copper 20.1 Ω/M' 65.9 Ω/km	Gas injected Foam HDPE 0.102   2.55	0.432   10.97	Duofoil® +95% tinned copper braid 100% shield coverage 7.6 Ω/M' 24.9 Ω/km	75   83%   16.5   54.1	High-flex PVC jacket. 7787A: Red, Green and Blue 7788A: Red, Green, Blue and White 7789A: Red, Green, Blue, White and Yellow 7790A: Red, Green, Blue, White, Yellow and Brown	71.5   3.0   9.8
	7788A	4	1000	304.8	54.0	Coax O.D. 0.159   4.03	0.481   12.22	135   3.8   12.5				
	7789A	5	500/1000	152.4/304.8	35.2/68.0	0.579   15.16	270   5.4   17.7					
	7790A	6	500/1000	152.4/304.8	42.6/84.4	1.150   29.21	360   6.7   20.3					
NEC CMR CEC CMR	7792A	12	500/1000	152.4/304.8	85.3/168.7						540   7.2   25.3	

### VIDEOFLEX 779xA-series



Digital  
Mobile

#### Product Description

Belden has bundled its highly popular **779xA-series** cables into new, multi-channel [audio/video cable](#). Videoflex can be used for all of the various RGB systems including "RGB: 3-coax, **RGBs**: 4-coax, **RGBHV**: 5-coax". **RGBHV** with simultaneous composite Sync, making it suitable for any large display device. A 10-coax version is also available for [applications requiring multiple channels of video](#). The transmission of digital audio over 75-ohm coax requires the use of baluns which convert the unbalanced coax signal to a 110-ohm balanced transmission.

Belden's 779xA-series multicore video cables are "pre-timed" to this specification: **nom. delay < 4.0 ns/m**

20 Gage	Part No.	No. of Cond.	Standard Lengths (ft./m)	Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D. (Inch/mm)	Nominal O.D. (Inch/mm)	No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance (pF/ft./pF/m)	Nominal Attenuation (MHz/dB/100 ft./dB/100 m)
SDI/HDTV Digital Video	7794A	3	500/1000	152.4/304.8	40.6/80.7	20 (solid) 0.81 mm bare copper 10.0 Ω/M' 32.8 Ω/km	Gas injected Foam HDPE 0.145   3.68	0.631   16.03	Duofoil® +90% tinned copper braid 100% shield coverage 9.5 Ω/M' 11.5 Ω/km	75   83%   16.3   53.1	High-flex PVC jacket. 7794A: Red, Green and Blue 7795A: Red, Green, Blue and White 7796A: Red, Green, Blue, White and Yellow 7798A: Red, Green, Blue, White, Yellow, Brown, Orange, Grey, Violet and Black	71.5   2.1   6.9
	7795A	4	500/1000	152.4/304.8	50.1/102.1	Coax O.D. 0.235   5.97	0.706   17.93	135   2.7   8.9				
	7796A	5	500/1000	152.4/304.8	64.6/126.6	0.790   20.07	270   3.8   12.5					
	7798A	10	500/1000	152.4/304.8	137.9/269.4	1.166   29.62	360   4.4   14.4					

### VIDEOFLEX 771xA-series



Digital  
Mobile

#### Product Description

Belden has bundled **771xA-series** and is used for sending Red, Green and Blue signals through separate coaxes. All Belden RGB cables are [pre-timed to less than 5.0 ns/100 ft. delay difference](#) between each coax. This allows [installation with no TDR](#) (available with 4, 5, 10 coaxes). Overall matte Black PVC jacket.

Belden's 771xA-series multicore video cables are "pre-timed" to this specification: **nom. delay < 4.0 ns/m**

75°C	Part No.	No. of Cond.	Standard Lengths (ft./m)	Std. Unit kg	AWG (stranding) [Dia. in mm] Nom. D.C.R.	Insulation & Nominal Core O.D. (Inch/mm)	Nominal O.D. (Inch/mm)	No. of Shields & Material Nom. D.C.R.	Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance (pF/ft./pF/m)	Nominal Attenuation (MHz/dB/100 ft./dB/100 m)
SDI/HDTV Digital Video (1694A Bundled)	7710A	3	500/1000	152.4/304.8	72.2/125.4	18 (solid) 1.01 mm bare copper 6.4 Ω/M' 21.0 Ω/km	Gas injected Foam HDPE 0.180   4.57	0.770   19.56	Duofoil® +95% tinned copper braid 2.8 Ω/M' 9.2 Ω/km	75   82%   16.2   53.1	7710A: Red, Green and Blue 7711A: Red, Green, Blue and White 7712A: Red, Green, Blue, White and Yellow 7713A: Red, Green, Blue, White, Yellow, Brown, Orange, Grey, Violet and Black	71.5   1.6   5.2
	7711A	4	500/1000	152.4/304.8	87.7/156.4	Coax O.D. 0.275   6.99	0.843   21.41	135   2.1   6.9				
	7712A	5	500/1000	152.4/304.8	103.1/187.1	0.942   23.93	270   3.0   9.8					
	7713A	10	500/1000	152.4/304.8	192.8/366.6	1.386   35.20	360   3.4   11.2					

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# Technical Information

## Equivalency Chart for American Wire Gauge (AWG)

AWG Size	Composition of Conductor	Approx. O.D. mm	Section mm <sup>2</sup>
40	Solid	0.079	0.005
39	Solid	0.089	0.006
38	Solid	0.102	0.008
37	Solid	0.114	0.010
36	Solid	0.127	0.013
	7/44	0.153	0.014
35	Solid	0.142	0.016
34	Solid	0.160	0.020
	7/42	0.191	0.022
33	Solid	0.180	0.025
32	Solid	0.209	0.032
	7/40	0.203	0.034
	19/44	0.229	0.039
31	Solid	0.226	0.040
30	Solid	0.255	0.051
	7/38	0.305	0.056
	19/42	0.305	0.060
29	Solid	0.287	0.064
28	Solid	0.320	0.080
	7/36	0.381	0.071
	19/42	0.406	0.093
27	Solid	0.361	0.102
	7/35	0.457	0.111
26	Solid	0.404	0.127
	7/34	0.483	0.140
	10/36	0.533	0.127
	19/38	0.508	0.153
25	Solid	0.455	0.163
24	Solid	0.511	0.203
	7/32	0.610	0.226
	10/34	0.584	0.200
	19/36	0.610	0.239
	41/40	0.584	0.201
23	Solid	0.574	0.259
22	Solid	0.643	0.322
	7/30	0.762	0.352
	19/34	0.787	0.380
	26/36	0.762	0.327

AWG Size	Composition of Conductor	Approx. O.D. mm	Section mm <sup>2</sup>
21	Solid	0.724	0.412
20	Solid	0.813	0.514
	10/30	0.890	0.504
	19/32	0.940	0.612
	26/34	0.914	0.520
	41/36	0.914	0.533
19	Solid	0.912	0.653
18	Solid	1.020	0.816
	7/26	1.220	0.891
	16/30	1.200	0.808
	19/30	1.240	0.957
	41/34	1.200	0.819
	65/34	1.200	0.845
17	Solid	1.150	1.039
16	Solid	1.290	1.300
	7/24	1.520	1.420
	19/29	1.470	1.216
	26/30	1.500	1.310
	65/34	1.500	1.300
	105/36	1.500	1.365
15	Solid	1.450	1.651
14	Solid	1.630	2.070
	7/20	1.850	2.260
	19/27	1.850	1.930
	41/30	1.850	2.060
	105/36	1.850	2.100
13	Solid	1.830	2.630
12	Solid	2.050	3.290
	7/20	2.440	3.610
	19/25	2.360	3.070
	65/30	2.410	3.270
	165/34	2.410	3.300
11	Solid	2.300	4.155
10	Solid	2.600	5.230
	37/26	2.920	4.710
	65/28	2.950	5.230
	105/30	2.950	5.355

## Conversion Table

To Convert Standard To Metric			
in	mm	x 25.4	#
ft	m	: 0.3048	#
mi	km	x 1.6093	*
lbs	kg	x 0.4536	*
lbs/1000 ft	kg/km	x 1.488	*
°F	°C	(F-32)/1.8	#
To Convert Metric To Standard			
mm	in	: 25.4	#
m	ft	x 0.3048	#
km	mi	x 0.6214	*
kg	lbs	x 2.204	*
kg/km	lbs/1000 ft	x 0.67197	*
°C	°F	1.8 x °C + 32	#
# = Exact value			
* = Approximate value			
x = multiply by			
: = divide by			

## Nominal Temperature Range for Various Insulating and Jacketing Compounds

Compound	Normal Low	Normal High	Special Low	Special High
Chlorosulfonated Polyethylene (Hypalon®)	- 20°C	90°C	- 40°C	105°C
EPDM (Ethylene-Propylene-Diene Monomer)	- 55°C	105°C	—	150°C
Neoprene	- 20°C	60°C	- 55°C	90°C
Polyethylene (Solid and Foamed)	- 60°C	80°C	—	—
Polypropylene (Solid and Foamed)	- 40°C	105°C	—	—
Rubber	- 30°C	60°C	- 55°C	75°C
FEP Teflon®	- 70°C	200°C	—	—
PVC	- 20°C	80°C	- 55°C	105°C
Silicone	- 80°C	150°C	—	200°C
Halar®	- 70°C	150°C	—	—
Tefzel®	- 65°C	150°C	—	—
TFE Teflon	- 70°C	260°C	—	—
CPE	- 35°C	90°C	- 45°C	105°C
Solef® / Kynar®	- 20°C	150°/125°C	- 40°C	150°/150°C
Flamarrest®	- 20°C	75°C	—	—



# Belden Audio / Video Cables

## Connector Cross / Transmission Distance

### Connector Cross

Belden	Type	ADC	Bomar	Damar + Hagen	Fischer	Lemo	Neutrik	Radiall	Telegärtner	Trompeter	Vitelec
152xA	0.3/2.6RGB	–	–	on request	–	FGG.3B.244.CLCD82	NBNC75 BLI4	R142.004.000	J01002A0027	– D7	VB10-2036
12xxR	–	BNC-16	–	1-xxxx-2100	–	–	on request	–	on request	105-2053-9	–
14xxB	0.5/3.7RGB	BNC-13	–	1-3397-3602	–	–	NBNC75 BW5	–	–	– D1	–
1865A	0.5/2.4	BNC-12	–	on request	–	FFS0A.250.NTAC40	NBNC75 BXX6	R142.078.161	J01002F1350	– D1	VB10-2063
1855A	0.6/2.6	BNC-7	SBC1855A	1-6097-2100	–	FFS0A.250.NTAC47	NBNC75 PDE6	R142.081.320	J01002A0030	– D1	–
1855ENH	0.6/2.8	–	–	1-4271-2100	–	FFS0A.250.NTAE63	NBNC75 PFE7	R142.082.027	J01002A0033	– D24	–
8241	0.6/3.7	BNC-1	SBC8241	1-1190-2100	–	on request	NBNC75 PNS7	R142.016.000	J01002A0003	– D3	–
1505A	0.8/3.7	BNC-1	SBC1505A	1-4253-2100	–	FFS0A.250.NTAE63	NBNC75 PLS9	R142.084.161	J01002A0031	– D2	–
8281	0.8/4.9	BNC-3	SBC8281	1-1194-2100	–	on request	NBNC75 BXY9	R142.090.161	J01002A0014	– D10	VB10-2026
1694A	1.0/4.6	BNC-8	SBC1694A	1-4482-2100	–	on request	NBNC75 PTS11	R142.086.161	J01002A0010	– D4	VB10-2024
7731A	1.6/7.2	BNC-25	SBC7731A	1-5044-2100	–	FFA.4E.675.CTAC10	on request	R142.186.000	J01002A1940	– D5	–
7783A	Triax 8	on request	–	Serie 47	1051 A004-5	FFA.4E.675.CTAC85	–	–	–	305-1365-1	–
1856A	Triax 9	on request	–	Serie 47	1051 A004-5	FFA.4E.675.CTAC95	–	–	–	305-0088-2	–
7784A	Triax 11	on request	–	Serie 47	1051 A004-5	FFA.4E.675.CTAC11	–	R142.017.000	–	305-1289-1	–
7785A	Triax 14	on request	–	Serie 47	1051 A004-4	on request	–	–	–	–	–

### Maximum Transmission Distance in Feet (meters) at Serial Digital Data Rates

Data Rate:	143 Mb/s	177 Mb/s	270 Mb/s	360 Mb/s	540 Mb/s	1.5 Gb/s
Spec:	SMPTE 259M	ITU-R BT. 601	SMPTE 259M	SMPTE 259M	SMPTE 344M*	SMPTE 292M
Application:	Composite NTSC	Composite PAL	Component Video	Component Widescreen	Component Widescreen	HDTV
Belden No.	ft. (m)	ft. (m)	ft. (m)	ft. (m)	ft. (m)	ft. (m)
<b>1865A</b>	810 (247)	760 (232)	600 (183)	520 (158)	420 (128)	170 (52)
<b>1855A – 778xA</b>	1000 (305)	910 (277)	750 (229)	650 (198)	530 (162)	210 (64)
<b>1505F</b>	1200 (366)	1071 (327)	857 (261)	732 (223)	588 (179)	225 (69)
<b>8281F</b>	1250 (381)	1100 (335)	860 (262)	730 (222)	590 (180)	240 (73)
<b>8281B</b>	1430 (436)	1270 (387)	1000 (305)	850 (259)	680 (207)	250 (76)
<b>8281</b>	1430 (436)	1270 (387)	1000 (305)	860 (262)	700 (213)	260 (79)
<b>1505A – 779xA</b>	1430 (436)	1320 (402)	1110 (338)	960 (293)	790 (241)	300 (91)
<b>1694A – 771xA</b>	1760 (536)	1620 (494)	1360 (415)	1180 (360)	970 (296)	370 (113)
<b>7855A</b>	2220 (677)	2000 (610)	1670 (509)	1460 (445)	1210 (369)	470 (143)
<b>7731A</b>	2730 (832)	2460 (750)	2000 (610)	1740 (530)	1430 (436)	540 (165)

\* Proposed at time of printing.

NOTE: The serial digital interconnect standards are designed to operate where the signal loss at 1/2 the clock frequency does not exceed the approximate loss values listed below. The maximum length values shown are based on typical attenuation values for the cables listed and the following criteria:

**Maximum length = 30 dB loss at 1/2 the clock frequency: SMPTE 259M, PAL, Widescreen.**

**Maximum length = 20 dB loss at 1/2 the clock frequency: SMPTE 292M.**

The bit error rate (BER) can vary dramatically as the calculated distances are approached. BER is dependent on receiver design and the losses of the actual coax used.

Distribution and routing equipment manufacturers should be contacted to verify their maximum recommended transmission.

# Part Number Index / Product Information

## Part Number Index

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1192A	8	1800F	10	7731A	21	8410	17	46340	7
1277R	23	1802B	10	7783A	18	8412	7	46349	7
1278R	23	1803F	14	7784A	18	8424	8	46377	17
1279R	23	1804A	8	7785A	18	8451	9	46378	17
1280R	23	1805F	14	7787A	23	8728	9	46379	16
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1510C	12	1855ENH	21	7798A	23	9451	9	46926	15
1511C	12	1856A	18	7804C	6	9452	9	46935	15
1512C	12	1865A	21	7855A	21	9716	16	46936	15
1513C	12	1883A	9	7880A	14	40550	15	46937	15
1514C	12	1902A	11	7891A	14	43187	21	46938	15
1515C	12	1904A	11	7884A	13	43906	17	46948	13
1516C	12	1906A	11	7885A	13	43907	16	46959	15
1517C	12	1908A	11	7886A	13	43908	16	GMMT104	6
1518C	12	1912A	11	7887A	13	46305	13	GMMT106	6
1519C	12	1916A	11	7888A	13	46306	13	GMMT108	6
1520A	22	1924A	11	7889A	13	46312	13	GMMT204	6
1521A	22	1932A	11	7890A	14	46313	13	GMMT206	6
1522A	22	7710A	23	7892A	14	46315	13	GMMT208	6
1694A	20	7711A	23	7893A	14	46332	13		
1696A	10	7712A	23	8241	19	46333	13		

## Product Information



Optical Fibre Catalog



Headroom Catalog



Digital Studio Cable Guide



Master Catalog



Online Product Service:  
[www.belden-europe.com](http://www.belden-europe.com)

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