

Belden



Coaxial Cables for Broadband Communication Networks

European Edition

Belden Coaxial Cables for Broadband

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 IEC 332-3C 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 culminated in 1999 with the purchase of Cable Systems International, the largest specialty telecom cable facility in the world. Other capabilities were created by numerous acquisitions in Austria, Australia, Germany, Hungary, the USA and the Netherlands, where Belden has its European headquarters and a large R&D Centre and manufacturing facility. Apart from Europe, 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.

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.

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Dependable Solutions in Cabling

European manufacturing operations

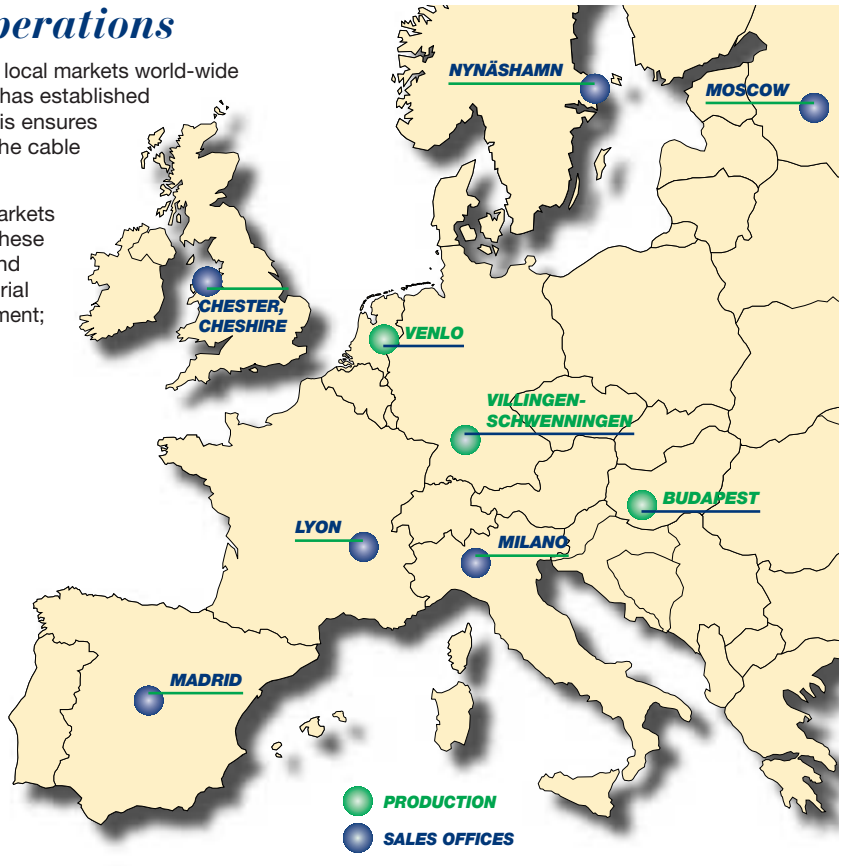
As Belden's global business plans call for a commitment to local markets world-wide and a thorough understanding of local dynamics, Belden has established a very significant presence in core European markets. This ensures that appropriate solutions can always be found to meet the cable and wire needs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



USA



Germany



The Netherlands

Belden Coaxial Cables for Broadband

Technical Information

Physical foam coaxial product

Existing coaxial cables consist of a chemically foamed dielectric, which is highly susceptible to moisture. Belden strives to produce cables with optimal dielectric qualities. During the extrusion process the dielectric material (polyethylene) is mixed with inert nitrogen gas using advanced production techniques. This results in a physical foamed dielectric that meets the most serve international quality standards.

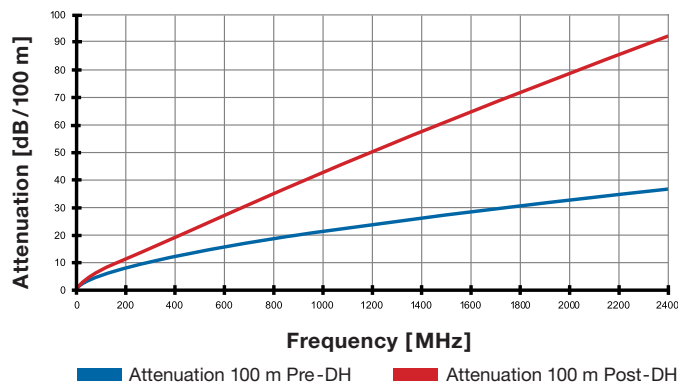
The most important advantages of the physically foamed dielectric are:

- Unsusceptible to moisture
- Watertight
- Mechanically robust
- Stable attenuation up to at least 3 GHz
- Thinner, more flexible and easier to install cables.

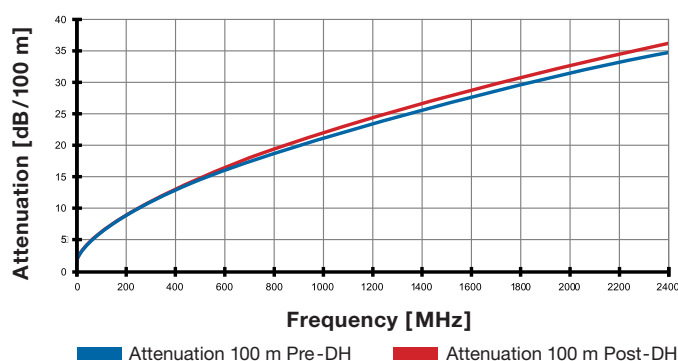
A damp heat test is defined in the IEC standard 68-2 part 3. The results reproduce the influence of moisture. After the damp heat test the attenuation must not have increased by more than 5% in respect to the pre-test value. The two graphics show the results of this test for the Belden physically and chemical foamed cables.

Physical versus chemical

Coaxial cable with chemical foam



Coaxial cable with physical foam



Halogen-free

Our halogen-free coaxial cables satisfy the requirements of the most important international standards:

Material: HD 624
Flammability: IEC 60332-1, -2 or 3C
Corrosivity: HD 602

In comparison to products containing halogens, this offers considerable advantages: **Less impairment to vision, minimal poisonous gases, no release of highly caustic acids, more safety for man, nature and materials.**

Belden cable shield options

Duofoil

This shield type consists of an inner layer of Duofoil, which is a laminated tape of foil/film/foil, and an outer braid with one of various different coverages.

Duobond® II (Foil/Braid)

This shield type includes an inner layer of Duobond® II, which is a laminated tape of foil/film/foil, bonded to the dielectric with a layer of adhesive. This foil shield provides 100% coverage and insures maximum shield protection. Bonded tape eliminates foil push-back, makes cable termination easier and keeps moisture and dirt away from the insulation if the jacket should ever be ruptured. Bonded foil is a Belden innovation. In addition to the foil tape, an outer braid with one of various different coverages is applied for greater protection against interference and to increase the overall tensile strength.

Duobond® III (Tri-shield)

This shielding configuration uses the Duobond® II design plus a surrounding layer of Duofoil. Duofoil is a laminated tape of foil/film/foil. The extra layer of foil in this Tri-shield improves shield reliability and provides an additional interference barrier.

Duobond Plus® (DB+)

Duobond Plus® consists of a Duobond® II foil tape surrounded by a braid plus an outer layer of foil featuring a unique shorting fold which creates the effect of a solid metal conduit. This shorting fold provides a metal-to-metal contact, which improves the high frequency performance of the cable. This fold prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress. In addition, the outer foil is bonded to the jacket, making stripping and connectorising easier. Duobond Plus® is a Belden innovation.



Duobond® IV (Quad shield)

Duobond® IV adds a second outer layer of braid to the foil/braid/foil (Tri-shield) design, providing a four-layered shield. Duobond® IV's extra layer of braid shield provides improved strength and durability.

Belden Quality

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.



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 Flamarest®, 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.

Belden product portfolio

All Belden CATV coaxial cables comply with the European standard and international quality and safety standards. The products are designed according to the international standard IEC 1196 for Radio Frequency Cables and the European standard EN 50117.

If you do not find the product you need in this brochure, we offer the option of special (custom made) cable. Here you can choose between different constructions, jacket colours or other materials ect.

Connectors

For all our products you'll find connectors from the world's leading manufacturers. If you need information about the connector manufacturers, please contact our partners or Belden offices.



Stripping tools

For proper installation of a broadband communication network it is necessary to use the right tools for connectorization. There are stripping tools and connectorization tools on the market which give you the guarantee that the connectors are installed in the right way on the cable. If you need information about stripping tools, please contact our partners or Belden offices.



Belden Coaxial Cables for Broadband

Cable Finder

50 OHM

Diameter conductor	Overall diameter sheath	Material jacket	Material dielectric	Type of foil	Braid coverage	DC loop resistance	Attenuation at 100 MHz	Product description	Belden part number	Remarks	Page
mm	mm				%	Ohm / km	dB / 100 m				
0.91	4.95	PVC	Gas injected PE		93	51.00	15.10	RG58	43633		20
0.91	4.95	PVC	Gas injected PE		93	51.00	15.10	RG58	46289		20
1.41	5.40	PE	Gas injected PE	AL-PET-AL	80	32.00	9.30	H155	49225		20
1.41	5.40	PVC	Gas injected PE	AL-PET-AL	80	32.00	9.30	H155	46220		20
2.50	9.80	PE	Gas injected PE	Cu	50	14.20	4.10	H500	49305		21
2.25	10.30	PVC	Solid PE		25	56.30	10.40	RACO 25	43643		20
2.25	10.30	PVC	Solid PE		92	11.50	6.60	RG213	43673		21
2.62	10.30	PVC	Gas injected PE		25	38.50	6.30	H1000	43646		20
2.62	10.30	PE	Gas injected PE	CuPET	85	8.00	4.00	H1000	49056		21
2.62	10.30	PVC	Gas injected PE	Cu	49	12.30	4.00	H1000	46531		21
2.62	10.30	PE	Gas injected PE	Cu	49	12.30	4.00	H1000	49025		21
2.70	10.30	PE	Gas injected PE	CuPET	49	16.50	4.70	H1001	49205		21

75 OHM

Diameter conductor	Overall diameter sheath	Material jacket	Material dielectric	Type of foil	Braid coverage	DC loop resistance	Attenuation at 100 MHz	Product description	Belden part number	Remarks	Page
mm	mm				%	Ohm / km	dB / 100 m				
0.58	6.00	PVC	Solid PE		92/92	93.50	11.60	H106	43101		19
0.58	6.00	PVC	Solid PE		92/92	93.50	11.60	H106	43102		19
0.58	6.15	PVC	Solid PE		95	173.00	11.60	RG59	46100		19
0.60	4.15	PVC	Gas injected PE		52	132.00	14.20	H110	43654		19
0.60	5.60	PVC	Solid PE		91	92.50	12.40	H12	43340		19
0.65	4.15	PVC	Gas injected PE	AL-PET-AL	45	92.00	10.00	H123	46479		11
0.65	4.30	LSNH	Gas injected PE	AL-PET-AL	90	72.00	10.00	H123	43091		11
0.65	4.30	PVC	Gas injected PE	AL-PET-AL	90	72.00	10.00	H123	46158		11
0.70	7.20	PVC	Solid PE		93/92	56.00	9.50	H105	46036		19
0.71	6.80	PVC	Solid PE	Cu	60	61.00	8.20	COAX 12	43158		11
0.71	7.10	PE	Solid PE	Cu	60	61.00	8.20	COAX 12	49084		11
0.72	6.80	PVC	Solid PE	AL-PET-AL	35	237.00	8.20	H114	46103		11
0.72	6.80	PVC	Solid PE	AL-PET-AL	65	228.00	8.20	H114	46485		11
0.80	5.00	LSNH	Gas injected PE	AL-PET-AL	75	55.00	7.90	H121	43179		12
0.80	5.00	PE	Gas injected PE	AL-PET-AL	45	75.00	7.90	H121	49302		12
0.80	5.00	PVC	Gas injected PE	AL-PET-AL	75	55.00	7.90	H121	46150		12
0.80	5.00	PVC	Gas injected PE	Cu	45	59.00	7.60	H121	46471		12
0.80	5.00	PVC	Gas injected PE	AL-PET-AL	45	75.00	7.90	H121	46596		12
0.80	5.00	PVC	Gas injected PE	AL-PET-AL	45	75.00	7.90	H121	46978		12
0.80	5.60	PVC	Gas injected PE		91	65.00	10.70	H12A	43346		19
0.80	6.65	LSNH	5 Cell PE	Cu	55	41.00	6.00	H109	46981		13
1.00	6.33	LSNH	5 Cell PE	Cu	55	41.00	6.00	H109	46543		13
1.00	6.33	PE	5 Cell PE	Cu	55	41.00	6.00	H109	49176		13
1.00	6.33	PVC	5 Cell PE	AL-PET-AL	65	47.00	6.00	H109	46366		13
1.00	6.33	PVC	5 Cell PE	Cu	55	41.00	6.00	H109	46420		13
1.00	6.33	PVC	5 Cell PE	AL-PET-AL	40	50.00	6.00	H109	46462		13
1.00	6.65	PVC	5 Cell PE	Cu	55	41.00	6.00	H109	46456		13
1.00	6.65	PVC	5 Cell PE	Cu	55	41.00	6.00	H109	46580		13
1.00	6.80	LSNH	Gas injected PE	Cu	40	41.00	6.00	H125	46117		14

Cable Finder

75 OHM

Diameter conductor	Overall diameter sheath	Material jacket	Material dielectric	Type of foil	Braid coverage	DC loop resistance	Attenuation at 100 MHz	Product description	Belden part number	Remarks	Page
mm	mm				%	Ohm / km	dB / 100 m				
1.00	6.80	LSNH	Gas injected PE	AL-PET-AL	70	41.00	6.20	H125	46123		14
1.00	6.80	LSNH	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46428		14
1.00	6.80	PE	Gas injected PE	Cu	40	41.00	6.00	H125	49004		14
1.00	6.80	PE	Gas injected PE	AL-PET-AL	70	41.00	6.20	H125	49045		14
1.00	6.80	PE	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	49196		14
1.00	6.80	PVC	Gas injected PE	Cu	40	41.00	6.00	H125	43087		14
1.00	6.80	PVC	Gas injected PE	Cu	40	41.00	6.00	H125	46005	pair	17
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46074	pair	17
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	70	41.00	6.20	H125	46359		14
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46401		14
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46425		14
1.00	6.80	PVC	Gas injected PE	Cu	40	41.00	6.00	H125	46477		14
1.00	6.90	LSNH	Gas injected PE	AL-PET-AL DB+	50	37.00	6.30	H126	43155		15
1.00	6.90	PE	Gas injected PE	AL-PET-AL DB+	50	37.00	6.30	H126	49053		15
1.00	6.90	PVC	Gas injected PE	AL-PET-AL	50	37.00	6.60	RG6	43089	pair	17
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	50	37.00	6.30	H126	46147		15
1.00	6.90	PVC	Gas injected PE	AL-PET-AL	50	45.00	6.40	RG6	43106		15
1.00	6.90	PVC	Gas injected PE	AL-PET-AL bonded	50	45.00	6.40	RG6	43107		15
1.00	6.90	PVC	Gas injected PE	AL-PET-AL bonded	70	45.00	6.40	RG6	43112		15
1.00	6.90	PVC	Gas injected PE	AL-PET-AL	40	45.00	6.40	RG6	46081		15
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	50	119.00	6.60	RG6	46146		15
1.10	6.80	PE	Gas injected PE	Cu	40	36.50	5.60	H129	49026		16
1.10	6.80	PVC	Gas injected PE	Cu	40	36.50	5.60	H129	46107		16
1.10	6.80	PVC	Gas injected PE	AL-PET-AL	40	43.00	5.80	H129	46111		16
1.20	7.10	LSNH	Gas injected PE	Cu	40	34.50	5.10	PRG7	46594		16
1.20	7.10	PE	Gas injected PE	Cu	40	34.50	5.10	PRG7	49046	pair	17
1.20	7.10	PVC	Gas injected PE	AL-PET-AL	40	39.60	5.30	PRG7	46474		16
1.20	7.10	PVC	Gas injected PE	Cu	40	34.50	5.10	PRG7	46475		16
1.25	8.10	HDPE	Gas injected PE	Cu	50	26.50	4.90	RG7	49038		16
1.25	8.10	PE	Gas injected PE	Cu	50	26.50	4.90	RG7	49032		16
1.25	8.10	PVC	Gas injected PE	Cu	50	26.50	4.90	RG7	43093		16
1.55	10.10	LSNH	Gas injected PE	Cu	50	20.00	3.90	PRG11	46027		10
1.55	10.10	PE	Gas injected PE	Cu	50	20.00	3.90	PRG11	49001		10
1.55	10.10	PE	Gas injected PE	AL-PET-AL	50	22.20	4.10	PRG11	49002		9
1.55	10.10	PE	Gas injected PE	Cu	50	20.00	3.90	PRG11	49006	messenger	10
1.55	10.10	PE	Gas injected PE	Cu	50	20.00	3.90	PRG11	49041	pair	17
1.55	10.10	PE	Gas injected PE	AL-PET-AL DB+	50	18.90	3.90	PRG11	49054		10
1.55	10.10	PVC	Gas injected PE	Cu	50	20.00	3.90	PRG11	46365		10
1.55	10.10	PVC	Gas injected PE	AL-PET-AL	50	22.20	4.10	PRG11	46467		9
1.55	10.10	PVC	Gas injected PE	AL-PET-AL DB+	50	18.90	3.90	PRG11	43154		10
1.61	10.10	LSNH	Gas injected PE	AL-PET-AL	60	19.30	3.90	PRG11	46399		9
1.61	10.10	PVC	Gas injected PE	AL-PET-AL	60	19.30	3.90	PRG11	46118		9
1.61	11.30	PE	Gas injected PE	Cu	70	15.00	3.70	COAX 6	49050		9
1.61	11.30	HDPE	Gas injected PE	Cu	70	15.00	3.70	COAX 6	49051		9
2.23	13.80	HDPE	Gas injected PE	Cu	60	9.00	2.80	COAX 4	49093		8
2.23	13.80	PE	Gas injected PE	Cu	60	9.00	2.80	COAX 4	49031	messenger	8
2.23	13.80	PE	Gas injected PE	Cu	60	9.00	2.80	COAX 4	49307		8
2.23	13.80	PE	Gas injected PE	Cu	60	9.00	2.80	COAX 4	49308		8
2.23	13.80	LSNH	Gas injected PE	Cu	60	9.00	2.80	COAX 4	46057		8
3.38	18.00	PE	Gas injected PE	Cu	60	4.50	1.80	COAX 3	49048		7
3.38	21.60	PE	Gas injected PE	Cu	60	4.50	1.80	COAX 3	49055		7
3.38	19.80	LSNH	Gas injected PE	Cu	60	4.50	1.80	COAX 3	46171		7
3.38	19.80	PE	Gas injected PE	Cu	60	4.50	1.80	COAX 3	49028		7
3.38	19.80	PE	Gas injected PE	Cu	60	4.50	1.80	COAX 3	49047	messenger	7

Belden Coaxial Cables for Broadband

Coaxial Trunk Cables

			COAX 3				
Product description			FB20 LSNH	FB20 PE	FB20 CAT	F18 PE	FB21 PE
Electrical performance							
Impedance	Ohm		75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m		53 ± 3	53 ± 3	53 ± 3	53 ± 3	58 ± 3
Velocity ratio	%		84.0	84.0	84.0	84.0	78.0
DC resistance	Loop	Ohm / km	4.5	4.5	4.5	4.5	4.5
	Inner conductor	Ohm / km	1.9	1.9	1.9	1.9	1.9
Max. current	I _{eff.}	A	30.0	30.0	30.0	30.0	30.0
Attenuation at	5 MHz	dB / 100 m	0.4	0.4	0.4	0.4	0.4
	10 MHz	dB / 100 m	0.6	0.6	0.6	0.6	0.6
	50 MHz	dB / 100 m	1.3	1.3	1.3	1.3	1.3
	100 MHz	dB / 100 m	1.8	1.8	1.8	1.8	1.8
	200 MHz	dB / 100 m	2.6	2.6	2.6	2.6	2.6
	230 MHz	dB / 100 m	2.9	2.9	2.9	2.9	2.9
	300 MHz	dB / 100 m	3.3	3.3	3.3	3.3	3.3
	400 MHz	dB / 100 m	3.9	3.9	3.9	3.9	3.9
	600 MHz	dB / 100 m	4.8	4.8	4.8	4.8	4.8
	800 MHz	dB / 100 m	5.7	5.7	5.7	5.7	5.7
	860 MHz	dB / 100 m	5.9	5.9	5.9	5.9	5.9
	1000 MHz	dB / 100 m	6.5	6.5	6.5	6.5	6.5
	1350 MHz	dB / 100 m	7.7	7.7	7.7	7.7	7.7
	1750 MHz	dB / 100 m	9.0	9.0	9.0	9.0	9.0
Return loss at	2150 MHz	dB / 100 m	10.2	10.2	10.2	10.2	10.2
	2400 MHz	dB / 100 m	10.9	10.9	10.9	10.9	10.9
	5 – 470 MHz	dB	> 26.0	> 26.0	> 26.0	> 26.0	> 26.0
	470 – 862 MHz	dB	> 22.0	> 22.0	> 22.0	> 22.0	> 22.0
Screening efficiency	862 – 2150 MHz	dB	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
	30 – 1000 MHz	dB	> 100.0	> 100.0	> 100.0	> 100.0	> 100.0



Construction and dimensions							
Material conductor			Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm		3.38	3.38	3.38	3.38	3.38
Material dielectric			Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm		14.9 ± 0.2	14.9 ± 0.2	14.9 ± 0.2	14.9 ± 0.2	16.5 ± 0.2
Type of foil			Cu	Cu	Cu	Cu	Cu
Overlap foil	mm		5	5	5	5	5
Braiding material			Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%		60	60	60	60	60
Diameter outer conductor	mm		15.8 ± 0.3	15.8 ± 0.3	15.8 ± 0.3	15.3 ± 0.3	17.6 ± 0.3
Sheath material			LSNH	PE	PE	PE	PE
Diameter sheath	mm		19.8 ± 0.3	19.8 ± 0.3	19.8 ± 0.3	18.0 ± 0.3	21.6 ± 0.3
Catenary wire					Zinc plated steel wires		
Diameter catenary wire	mm				6.9 ± 0.3		
Diameter width coax + catenary	mm				30.0 ± 0.4		
Min. setting radius	mm		200	200	200	180	220
Max. tensile strength	N		1200	1200	6000	1200	2000

Belden part number	46171	49028	49047	49048	49055
Colour	GREY	BLACK GREEN	BLACK	BLACK GREEN	BLACK GREEN
Put-up code	043	043 / 293	043	043 / 293	043
Length / reel	meter	700 / 1050	700	700 / 1050	700
Total weight	kg / km	417	289	312	404

Coaxial Trunk Cables

COAX 4

Product description			FB14 LSNH	FB14 CAT PE	FB14 HDPE	FB14 PE	F14 PE
Electrical performance							
Impedance	Ohm		75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m		54 ± 3	54 ± 3	54 ± 3	54 ± 3	54 ± 3
Velocity ratio	%		82.0	82.0	82.0	82.0	82.0
DC resistance	Loop	Ohm / km	9.0	9.0	9.0	9.0	9.0
	Inner conductor	Ohm / km	4.5	4.5	4.5	4.5	4.5
Max. current	I _{eff.}	A	18.0	18.0	18.0	18.0	18.0
Attenuation at	5 MHz	dB / 100 m	0.6	0.6	0.6	0.6	0.6
	10 MHz	dB / 100 m	0.9	0.9	0.9	0.9	0.9
	50 MHz	dB / 100 m	1.9	1.9	1.9	1.9	1.9
	100 MHz	dB / 100 m	2.8	2.8	2.8	2.8	2.8
	200 MHz	dB / 100 m	4.0	4.0	4.0	4.0	4.0
	230 MHz	dB / 100 m	4.4	4.4	4.4	4.4	4.4
	300 MHz	dB / 100 m	5.1	5.1	5.1	5.1	5.1
	400 MHz	dB / 100 m	5.9	5.9	5.9	5.9	5.9
	600 MHz	dB / 100 m	7.4	7.4	7.4	7.4	7.4
	800 MHz	dB / 100 m	8.8	8.8	8.8	8.8	8.8
	860 MHz	dB / 100 m	9.2	9.2	9.2	9.2	9.2
	1000 MHz	dB / 100 m	10.0	10.0	10.0	10.0	10.0
	1350 MHz	dB / 100 m	11.9	11.9	11.9	11.9	11.9
	1750 MHz	dB / 100 m	13.9	13.9	13.9	13.9	13.9
2150 MHz	dB / 100 m	15.7	15.7	15.7	15.7	15.7	
Return loss at	5 – 470 MHz	dB	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	dB	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	dB	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	dB	> 100.0	> 100.0	> 100.0	> 100.0	> 100.0



Construction and dimensions							
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	2.23	2.23	2.23	2.23	2.23	2.23
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	10.2 ± 0.2	10.2 ± 0.2	10.2 ± 0.2	10.2 ± 0.2	10.2 ± 0.2	10.2 ± 0.2
Type of foil		Cu	Cu	Cu	Cu	Cu	Cu
Overlap foil	mm	4	4	4	4	4	4
Braiding material		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%	60	60	60	60	60	60
Diameter outer conductor	mm	11.0 ± 0.3	11.0 ± 0.3	11.0 ± 0.3	11.0 ± 0.3	11.0 ± 0.3	11.0 ± 0.3
Sheath material		LSNH	PE	HDPE	PE	PE	PE
Diameter sheath	mm	13.8 ± 0.3	13.8 ± 0.3	13.8 ± 0.3	13.8 ± 0.3	13.8 ± 0.3	13.8 ± 0.3
Catenary wire			Zinc plated steel wires				
Diameter catenary wire	mm		5.9 ± 0.3				
Diameter width coax + catenary	mm		21.5 ± 0.4				
Min. setting radius	mm	150	150	150	150	150	150
Max. tensile strength	N	400	6000	400	400	400	600

Belden part number	46057	49031	49093	49307	49308
Colour	GREEN	BLACK	BLACK	BLACK GREEN	BLACK GREEN
Put-up code	025	042	025	025 / 042	025 / 042
Length / reel	meter	500	500	500 / 1000	500 / 1000
Total weight	kg / km	196	229	170	164

Belden Coaxial Cables for Broadband

Coaxial Distribution Cables

		COAX 6		PRG11 AL			
Product description		FB11 PE	FB11 HDPE	PRG11 A AL LSNH	PRG11 A AL PVC	PRG11 AL PVC	PRG11 AL PE
Electrical performance							
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	55 ± 2	55 ± 2	55 ± 2	55 ± 2	55 ± 2	55 ± 2
Velocity ratio	%	81.0	81.0	81.0	81.0	81.0	81.0
DC resistance	Loop	15.0	15.0	19.3	19.3	22.2	22.2
	Inner conductor	8.7	8.7	8.7	8.7	9.4	9.4
Max. current	I _{eff.} A	15.0	15.0	12.0	12.0	10.0	10.0
Attenuation at	5 MHz	0.8	0.8	0.9	0.9	0.9	0.9
	10 MHz	1.2	1.2	1.2	1.2	1.3	1.3
	50 MHz	2.6	2.6	2.8	2.8	2.9	2.9
	100 MHz	3.7	3.7	3.9	3.9	4.1	4.1
	200 MHz	5.3	5.3	5.7	5.7	5.9	5.9
	230 MHz	5.9	5.9	6.1	6.1	6.3	6.3
	300 MHz	6.8	6.8	6.9	6.9	7.3	7.3
	400 MHz	7.7	7.7	8.1	8.1	8.6	8.6
	600 MHz	9.5	9.5	9.9	9.9	10.7	10.7
	800 MHz	11.1	11.1	11.6	11.6	12.5	12.5
	860 MHz	11.9	11.9	12.0	12.0	12.9	12.9
	1000 MHz	12.6	12.6	13.0	13.0	14.2	14.2
	1350 MHz	14.8	14.8	15.0	15.0	16.8	16.8
1750 MHz	17.1	17.1	17.2	17.2	19.5	19.5	
2150 MHz	19.0	19.0	19.0	19.0	21.9	21.9	
2400 MHz	20.1	20.1	21.5	21.5	23.4	23.4	
Return loss at	5 – 470 MHz	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	> 90.0	> 90.0	> 85.0	> 85.0	> 85.0	> 85.0



Construction and dimensions							
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.61	1.61	1.61	1.61	1.55	1.55
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	7.55 ± 0.15	7.55 ± 0.15	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2
Type of foil		Cu	Cu	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL
Overlap foil	mm	5	5	5	2	2	2
Braiding material		Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	70	70	60	60	50	50
Diameter outer conductor	mm	8.2 ± 0.2	8.2 ± 0.2	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25
Sheath material		PE	HDPE	LSNH	PVC	PVC	PE
Diameter sheath	mm	11.3 ± 0.3	11.3 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3
Catenary wire							
Diameter catenary wire	mm						
Diameter width coax + catenary	mm						
Min. setting radius	mm	120	120	50	50	50	50
Max. tensile strength	N	300	300	300	300	225	225

Belden part number	49050	49051	46399	46118	46467	49002
Colour	BLACK GREEN	GREEN	GREY	BLACK	BLACK WHITE	BLACK
Put-up code	153 / 242 245	240	242	240 / 242	242	
Length / reel	meter	200 / 500 1000	1000	250	500	250 / 500 500
Total weight	kg / km	114	119	100	98	78

Coaxial Distribution Cables

Product description	PRG11 CU				PRG11 DB +	
	PRG11 CU LSNH	PRG11 CU PVC	PRG11 CU PE	PRG11 CU PE CAT	PRG11 DB + PVC	PRG11 DB + PE
Electrical performance						
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	55 ± 2	55 ± 2	55 ± 2	55 ± 2	55 ± 2
Velocity ratio	%	81.0	81.0	81.0	81.0	81.0
DC resistance	Loop	20.0	20.0	20.0	20.0	18.9
	Inner conductor	9.4	9.4	9.4	9.4	9.4
Max. current	I _{eff.} A	12.0	12.0	12.0	12.0	12.0
Attenuation at	5 MHz	0.9	0.9	0.9	0.9	0.9
	10 MHz	1.2	1.2	1.2	1.2	1.2
	50 MHz	2.7	2.7	2.7	2.7	2.8
	100 MHz	3.9	3.9	3.9	3.9	3.9
	200 MHz	5.7	5.7	5.7	5.7	5.7
	230 MHz	6.1	6.1	6.1	6.1	6.1
	300 MHz	7.0	7.0	6.9	7.0	7.0
	400 MHz	8.2	8.2	8.2	8.2	8.2
	600 MHz	10.2	10.2	10.2	10.2	10.2
	800 MHz	12.0	12.0	12.0	12.0	12.0
	860 MHz	12.5	12.5	12.5	12.5	12.5
	1000 MHz	13.6	13.6	13.6	13.6	13.6
	1350 MHz	16.1	16.1	16.1	16.1	16.1
	1750 MHz	18.7	18.7	18.7	18.7	18.7
Return loss at	5 – 470 MHz	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
Screening efficiency	862 – 2150 MHz	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
	30 – 1000 MHz	> 85.0	> 85.0	> 85.0	> 100.0	> 100.0



Construction and dimensions						
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.55	1.55	1.55	1.55	1.55
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2
Type of foil		Cu	Cu	Cu	AL-PET-AL DB +	AL-PET-AL DB +
Overlap foil	mm	2	2	2	2	2
Braiding material		Bare copper	Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	50	50	50	50	50
Diameter outer conductor	mm	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	8.1 ± 0.25	8.1 ± 0.25
Sheath material		LSNH	PVC	PE	PVC	PE
Diameter sheath	mm	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3
Catenary wire or UTP				Zinc plated steel wires		
Diameter catenary wire	mm			4.6 ± 0.2		
Diameter width coax + catenary	mm			16.2 ± 0.4		
Min. setting radius	mm	100	100	100	100	100
Max. tensile strength	N	225	225	225	4600	250

Belden part number	46027	46365	49001	49006	43154	49054
Colour	GREY	BLACK WHITE	BLACK GREEN	BLACK	BLACK	BLACK
Put-up code	240 / 242	025 240 / 242	025 240 / 242	042 / 091 241 / 242 245	240 / 242	240 / 242
Length / reel	meter	250 / 500	1000 250 / 500	1000 250 / 500	1000 / 1000 250 / 330 500	250 / 500
Total weight	kg / km	117	99	81	135	81

Belden Coaxial Cables for Broadband

Coaxial Drop Cables

		H123			COAX 12		H114	
Product description		H123 B AL LSNH	H123 B AL PVC	H123 AL PVC	COAX 12 PVC	COAX 12 PE	H114 A PVC	H114 B PVC
Electrical performance								
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	54 ± 2	54 ± 2	54 ± 2	67 ± 2	67 ± 2	67 ± 2	67 ± 2
Velocity ratio	%	84.0	84.0	84.0	66.0	66.0	66.0	66.0
DC resistance	Loop	72.0	72.0	92.0	61.0	61.0	237.0	228.0
	Inner conductor	55.0	55.0	55.0	45.0	45.0	210.0	210.0
Max. current	I _{eff.} A	4.2	4.2	4.2	7.1	7.1	4.1	4.1
Attenuation at	5 MHz	2.7	2.7	2.7	1.8	1.8	1.8	1.8
	10 MHz	4.0	4.0	4.0	2.5	2.5	2.9	2.9
	50 MHz	7.5	7.5	7.5	5.7	5.7	5.8	5.8
	100 MHz	10.0	10.0	10.0	8.2	8.2	8.2	8.2
	200 MHz	13.8	13.8	13.8	11.4	11.4	11.8	11.8
	230 MHz	14.9	14.9	14.9	12.2	12.2	12.6	12.6
	300 MHz	17.2	17.2	17.2	14.1	14.1	14.5	14.5
	400 MHz	19.9	19.9	19.9	16.9	16.9	16.9	16.9
	600 MHz	24.8	24.8	24.8	21.0	21.0	20.9	20.9
	800 MHz	29.0	29.0	29.0	24.5	24.5	24.5	24.5
	860 MHz	30.0	30.0	30.0	25.5	25.5	25.7	25.7
	1000 MHz	32.5	32.5	32.5	27.7	27.7	27.9	27.9
	1350 MHz	37.3	37.3	37.3	32.7	32.7	32.9	32.9
	1600 MHz	40.0	40.0	40.0	36.0	36.0	36.2	36.2
	1750 MHz	42.2	42.2	42.2	37.8	37.8	38.1	38.1
2150 MHz	47.0	47.0	47.0	42.5	42.5	42.8	42.8	
2400 MHz	50.5	50.5	50.5	45.2	45.2	45.5	45.5	
Return loss at	5 – 470 MHz	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	470 – 862 MHz	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
	862 – 2150 MHz	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0
Screening efficiency	30 – 1000 MHz	> 85.0	> 85.0	> 80.0	> 85.0	> 85.0	> 75.0	> 85.0



Construction and dimensions		H123		COAX 12		H114	
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Copper clad steel
Diameter conductor	mm	0.65	0.65	0.65	0.71	0.71	0.72
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Solid PE	Solid PE	Solid PE
Diameter dielectric	mm	2.9 ± 0.15	2.9 ± 0.15	2.9 ± 0.15	4.6 ± 0.15	4.6 ± 0.15	4.75 ± 0.15
Type of foil		AL-PET-AL	AL-PET-AL	AL-PET-AL	Cu	Cu	AL-PET-AL
Overlap foil	mm	1	1	1	2	2	2
Braiding material		Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Bare copper	Bare copper	Annealed tinned copper
Braid coverage	%	90	90	45	60	60	35
Diameter outer conductor	mm	3.4 ± 0.15	3.4 ± 0.15	3.4 ± 0.15	5.25 ± 0.2	5.25 ± 0.2	5.45 ± 0.2
Sheath material		LSNH	PVC	PVC	PVC	PE	PVC
Diameter sheath	mm	4.3 ± 0.2	4.3 ± 0.2	4.15 ± 0.2	6.8 ± 0.2	7.1 ± 0.2	6.8 ± 0.2
Min. setting radius	mm	25	25	25	70	70	35
Max. tensile strength	N	33	33	30	35	35	125

Belden part number	43091	46158	46479	43158	49084	46103	46485
Colour	GREEN WHITE	WHITE	BLACK BLUE GREEN GREY RED WHITE	BLACK GREY WHITE	BLACK GREEN	GREY WHITE	WHITE
Put-up code	028	028 / 177	177 / 178 028 / 172	174 / 240 241	174 / 241 242	172 / 040 240	011 / 172 240
Length / reel	meter	500	500 / 100	100 / 250 500 / 200	200 / 500 1000	200 / 1000 1000	100 / 100 500 500
Total weight	kg / km	29.0	28.7	17.8	54.1	49.9	46.6

Coaxial Drop Cables

H121

Product description			H121 B AL LSNH	H121 B AL PVC	H121 AL PVC	H121 AL PE	H121 AL PVC TWIN	H121 CU PVC
Electrical performance								
Impedance	Ohm		75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m		53 ± 2	53 ± 2	53 ± 2	53 ± 2	53 ± 2	53 ± 2
Velocity ratio	%		84.0	84.0	84.0	84.0	84.0	84.0
DC resistance	Loop	Ohm / km	55.0	55.0	75.0	75.0	75.0	59.0
	Inner conductor	Ohm / km	35.0	35.0	35.0	35.0	35.0	35.0
Max. current	I _{eff.}	A	4.4	4.4	4.4	4.4	4.4	5.6
Attenuation at	5 MHz	dB / 100 m	1.7	1.7	1.7	1.7	1.7	1.7
	10 MHz	dB / 100 m	3.0	3.0	3.0	3.0	3.0	2.4
	50 MHz	dB / 100 m	5.6	5.6	5.6	5.6	5.6	5.3
	100 MHz	dB / 100 m	7.9	7.9	7.9	7.9	7.9	7.6
	200 MHz	dB / 100 m	11.3	11.3	11.3	11.3	11.3	10.8
	230 MHz	dB / 100 m	12.3	12.3	12.3	12.4	12.3	11.6
	300 MHz	dB / 100 m	14.2	14.2	14.2	14.2	14.2	13.3
	400 MHz	dB / 100 m	16.2	16.2	16.2	16.2	16.2	15.4
	600 MHz	dB / 100 m	20.0	20.0	20.4	20.4	20.4	19.1
	800 MHz	dB / 100 m	23.2	23.2	23.2	23.2	23.2	22.2
	860 MHz	dB / 100 m	24.7	24.7	24.7	24.7	24.7	23.1
	1000 MHz	dB / 100 m	26.1	26.1	26.1	26.1	26.1	25.0
	1350 MHz	dB / 100 m	30.7	30.7	30.7	30.7	30.7	29.4
	1600 MHz	dB / 100 m	33.6	33.6	33.6	33.6	33.6	32.2
	1750 MHz	dB / 100 m	35.3	35.3	35.3	35.3	35.3	33.8
2150 MHz	dB / 100 m	39.4	39.4	39.4	39.4	39.4	37.8	
2400 MHz	dB / 100 m	41.9	41.9	41.9	41.9	41.9	40.1	
Return loss at	5 – 470 MHz	dB	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	470 – 862 MHz	dB	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
	862 – 2150 MHz	dB	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0
Screening efficiency	30 – 1000 MHz	dB	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0



Construction and dimensions

Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	0.8	0.8	0.8	0.8	0.8	0.8
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	3.5 ± 0.15	3.5 ± 0.15	3.5 ± 0.15	3.5 ± 0.15	3.5 ± 0.15	3.5 ± 0.15
Type of foil		AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	Cu
Overlap foil	mm	2	2	2	2	2	2
Braiding material		Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Bare copper
Braid coverage	%	75	75	45	45	45	45
Diameter outer conductor	mm	4.1 ± 0.15	4.1 ± 0.15	4.1 ± 0.15	4.1 ± 0.15	4.1 ± 0.15	4.1 ± 0.15
Sheath material		LSNH	PVC	PVC	PE	PVC	PVC
Diameter sheath	mm	5.0 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	5.0 ± 0.3
Min. setting radius	mm	25	25	25	25	25	50
Max. tensile strength	N	45	45	40	40	80	40

Belden part number	43179	46150	46978	49302	46596	46471
Colour	WHITE	WHITE	BLACK WHITE	BLACK	WHITE	WHITE
Put-up code	011 / 177 178	011 / 177 178	011 / 028 172 / 177 178	011	011 / 151	011 / 172 177
Length / reel	meter	500 / 100 300	500 / 100 300	500 / 250 100 / 100 300	500	250 / 100 100
Total weight	kg / km	29.7	29.7	26.8	20.7	49.2

Belden Coaxial Cables for Broadband

Coaxial Drop Cables

			H109							
Product description			H109 B AL PVC	H109 AL PVC	H109 NH (6.65 mm)	H109 PVC	H109 LSF	H109 LSNH	H109 PVC	H109 PE
Electrical performance										
Impedance	Ohm		75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m		56 ± 2	56 ± 2	56 ± 2	56 ± 2	56 ± 2	56 ± 2	56 ± 2	56 ± 2
Velocity ratio	%		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
DC resistance	Loop	Ohm / km	47.0	50.0	41.0	41.0	41.0	41.0	41.0	41.0
	Inner conductor	Ohm / km	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Max. current	I _{eff.}	A	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0
Attenuation at	5 MHz	dB / 100 m	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	10 MHz	dB / 100 m	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	50 MHz	dB / 100 m	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	100 MHz	dB / 100 m	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	200 MHz	dB / 100 m	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	230 MHz	dB / 100 m	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
	300 MHz	dB / 100 m	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
	400 MHz	dB / 100 m	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	600 MHz	dB / 100 m	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
	800 MHz	dB / 100 m	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
	860 MHz	dB / 100 m	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
	1000 MHz	dB / 100 m	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
	1350 MHz	dB / 100 m	24.2	24.2	24.4	24.2	24.2	24.2	24.2	24.2
1600 MHz	dB / 100 m	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
1750 MHz	dB / 100 m	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	
2150 MHz	dB / 100 m	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	
2400 MHz	dB / 100 m	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	
Return loss at	5 – 470 MHz	dB	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	dB	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	dB	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	dB	> 85.0	> 85.0	> 75.0	> 75.0	> 75.0	> 75.0	> 75.0	> 75.0



Construction and dimensions									
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Material dielectric		5 Cell PE	5 Cell PE	5 Cell PE	5 Cell PE	5 Cell PE	5 Cell PE	5 Cell PE	5 Cell PE
Diameter dielectric	mm	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15
Type of foil		AL-PET-AL	AL-PET-AL	Cu	Cu	Cu	Cu	Cu	Cu
Overlap foil	mm	2	2	2	2	2	2	2	2
Braiding material		Annealed tinned copper	Annealed tinned copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%	65	40	55	55	55	55	55	55
Diameter outer conductor	mm	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20
Sheath material		PVC	PVC	LSNH	PVC	PVC	LSNH	PVC	PE
Diameter sheath	mm	6.33 ± 0.2	6.33 ± 0.2	6.65 ± 0.2	6.33 ± 0.2	6.65 ± 0.2	6.33 ± 0.2	6.65 ± 0.2	6.33 ± 0.2
Min. setting radius	mm	35	35	70	40	40	70	70	40
Max. tensile strength	N	55	55	55	55	55	55	55	55

Belden part number	46366	46462	46981	46420	46456	46543	46580	49176
Colour	BLACK WHITE	BLACK WHITE	BLACK WHITE	WHITE	BLACK	BLACK GREY WHITE	BLACK BROWN WHITE	BLACK
Put-up code	028 / 172 179	028 / 172	240	092 / 172	240	240	011 106 / 240	240
Length / reel	meter	250 / 100 250	250 / 100	500	500 / 100	500	250 250 / 500	500
Total weight	kg / km	43.0	38.5	47.0	41.0	46.0	49.4	41.0

Coaxial Drop Cables

H125

Product description			H125 AL LSNH	H125 CH LSNH	H125 AL PVC	H125 CH PVC	H125 AL PE	H125 CH PE	H125 AL PVC TWIN	H125 CU LSNH	H125 CU PVC	H125 CU PE	H125 CU PVC TWIN
Electrical performance													
Impedance	Ohm		75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m		55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3
Velocity ratio	%		81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
DC resistance	Loop	Ohm / km	50.0	41.0	50.0	41.0	50.0	41.0	50.0	41.0	41.0	41.0	41.0
	Inner conductor	Ohm / km	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Max. current	I_{eff}	A	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.4	7.4	7.4	7.4
Attenuation at	5 MHz	dB / 100 m	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3
			2.2	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.8	
	10 MHz	dB / 100 m	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.2	4.2	4.2	4.2
			6.2	6.2	6.2	6.2	6.2	6.2	6.0	6.0	6.0	6.0	
	200 MHz	dB / 100 m	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.6	8.6	8.6	8.6
			9.2	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.1	9.1	
	300 MHz	dB / 100 m	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.5	10.5	10.5	10.5
			12.9	12.9	12.9	12.9	12.9	12.9	12.4	12.4	12.4	12.4	
	600 MHz	dB / 100 m	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.4	15.4	15.4	15.4
			18.8	18.8	18.8	18.8	18.8	18.8	18.0	18.0	18.0	18.0	
	860 MHz	dB / 100 m	19.1	19.1	19.1	19.1	19.1	19.1	19.1	18.3	18.3	18.3	18.3
			21.2	21.2	21.2	21.2	21.2	21.2	20.4	20.4	20.4	20.4	
	1350 MHz	dB / 100 m	25.1	25.1	25.1	25.1	25.1	25.1	25.1	24.1	24.1	24.1	24.1
			27.7	27.7	27.7	27.7	27.7	27.7	26.7	26.7	26.7	26.7	
	1750 MHz	dB / 100 m	29.0	29.0	29.0	29.0	29.0	29.0	29.0	27.9	27.9	27.9	27.9
			32.7	32.7	32.7	32.7	32.7	32.7	31.4	31.4	31.4	31.4	
2400 MHz	dB / 100 m	34.8	34.8	34.8	34.8	34.8	34.8	34.8	33.5	33.5	33.5	33.5	
		> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	
Return loss at	5 – 470 MHz	dB	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
			> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	dB	> 85.0	> 90.0	> 85.0	> 90.0	> 85.0	> 90.0	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0



Construction and dimensions

Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15
Type of foil		AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	Cu	Cu	Cu	Cu	Cu
Overlap foil	mm	2	2	2	2	2	2	2	2	2	2	2	2
Braiding material		Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%	40	70	40	70	40	70	40	40	40	40	40	40
Diameter outer conductor	mm	5.34 ± 0.2	5.4 ± 0.2	5.34 ± 0.2	5.5 ± 0.2	5.34 ± 0.2	5.5 ± 0.2	5.34 ± 0.2	5.24 ± 0.2	5.24 ± 0.2	5.24 ± 0.2	5.24 ± 0.2	5.24 ± 0.2
Sheath material		LSNH	LSNH	PVC	PVC	PE	PE	PVC	LSNH	PVC	PE	PVC	PVC
Diameter sheath	mm	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2
Min. setting radius	mm	35	35	35	35	35	35	35	70	70	70	70	70
Max. tensile strength	N	55	60	55	60	55	60	55	55	55	55	55	55

Belden part number	46428	46123	46401	46359	49196	49045	46425	46117	46477	49004	43087	
Colour	GREY	GREY WHITE	BLACK BROWN GREY WHITE	WHITE	BLACK	BLACK	BLACK	GREY	BLACK BROWN CRÈME GREY WHITE	BLACK	WHITE	
Put-up code	172 / 240	172 / 240	011 / 179 040 / 172 174 / 240 028 / 178	011 / 172 179 / 240	011 / 040 172 / 240	240	240	240	011 / 422 028 / 172 240 / 241	011 / 172 240	240	
Length / reel	meter	100 / 500	250 / 250 100 / 100 200 / 500 200 / 150	250 / 100 250 / 500	250 / 100 100 / 500	500	250	500	250 / 91.4 200 / 100 500 / 1000	250 / 100 500	250	
Total weight	kg / km	45.0	49.0	48.0	47.0	36.0	41.0	86.3	45.6	46.0	39.0	92.0

Belden Coaxial Cables for Broadband

Coaxial Drop Cables

Product description		H126			RG6				
		H126 DB + LSNH	H126 DB + PE	H126 DB + PVC	RG6 DB + PVC	RG6cu BF ALT PVC	RG6cu BF ALT PVC	RG6cu ALT PVC	RG6cu AL PVC
Electrical performance									
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	54 ± 2	54 ± 2	54 ± 2	54 ± 2	56 ± 2	56 ± 2	56 ± 2	56 ± 2
Velocity ratio	%	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
DC resistance	Loop	37.0	37.0	37.0	119.0	45.0	45.0	45.0	45.0
	Inner conductor	23.0	23.0	23.0	105.0	23.0	23.0	23.0	23.0
Max. current	I _{eff.} A	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Attenuation at	5 MHz	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
	10 MHz	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	50 MHz	4.5	4.5	4.5	4.8	4.5	4.5	4.5	4.5
	100 MHz	6.3	6.3	6.3	6.6	6.4	6.4	6.4	6.4
	200 MHz	9.3	9.3	9.3	9.3	9.1	9.1	9.1	9.1
	230 MHz	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
	300 MHz	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	400 MHz	13.4	13.4	13.4	13.4	13.2	13.2	13.2	13.2
	600 MHz	16.7	16.7	16.7	16.7	16.4	16.4	16.4	16.4
	800 MHz	19.5	19.5	19.5	19.5	19.2	19.2	19.2	19.2
	860 MHz	20.2	20.2	20.2	20.2	19.9	19.9	19.9	19.9
	1000 MHz	22.0	22.0	22.0	22.0	21.7	21.7	21.7	21.7
	1350 MHz	26.0	26.0	26.0	26.0	25.6	25.6	25.6	25.6
	1600 MHz	27.7	27.7	27.7	27.7	28.3	28.3	28.3	28.3
1750 MHz	29.0	29.0	29.0	29.0	29.6	29.6	29.6	29.6	
2150 MHz	33.0	33.0	33.0	33.0	33.3	33.3	33.3	33.3	
2400 MHz	35.0	35.0	35.0	35.0	35.5	35.5	35.5	35.5	
Return loss at	5 – 470 MHz	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	> 95.0	> 95.0	> 95.0	> 95.0	> 85.0	> 85.0	> 85.0	> 85.0



Construction and dimensions									
Material conductor		Bare copper	Bare copper	Bare copper	Copper clad steel	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15
Type of foil		AL-PET-AL DB +	AL-PET-AL DB +	AL-PET-AL DB +	AL-PET-AL DB +	AL-PET-AL bonded	AL-PET-AL bonded	AL-PET-AL	AL-PET-AL
Overlap foil	mm	1	1	1	1	1	1	2	2
Braiding material		Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	50	50	50	50	70	50	50	40
Diameter outer conductor	mm	5.4 ± 0.2	5.4 ± 0.2	5.4 ± 0.2	5.5 ± 0.2	5.25 ± 0.2	5.25 ± 0.2	5.25 ± 0.2	5.25 ± 0.2
Sheath material		LSNH	PE	PVC	PVC	PVC	PVC	PVC	PVC
Diameter sheath	mm	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2
Min. setting radius	mm	35	35	35	35	35	35	35	35
Max. tensile strength	N	55	55	55	570	55	55	55	55

Belden part number	43155	49053	46147	46146	43112	43107	43106	46081
Colour	WHITE	BLACK	BLACK WHITE	WHITE	WHITE	WHITE	BLACK WHITE	BLACK WHITE
Put-up code	179	240	240 / 172 179 / 240	179	028 / 179	028 / 179	179 / 028 172	011 / 172 179 / 261 422
Length / reel	meter	250	500	250	200 / 250	200 / 250	250 / 200 100	300 / 100 250 / 250 91.4
Total weight	kg / km	49.0	41.2	49.4	49.0	53.5	48.1	47.0

Coaxial Drop Cables

			H129			PRG7			RG7		
Product description			H129 CU PE	H129 CU PVC	H129 AL PVC	PRG7 AL PVC	PRG7 CU PVC	PRG7 CU LSNH	RG7 CU LSF	RG7 CU PE	RG7 CU HDPE
Electrical performance											
Impedance	Ohm		75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m		54 ± 2	54 ± 2	54 ± 2	54 ± 2	54 ± 2	54 ± 2	54 ± 2	54 ± 2	54 ± 2
Velocity ratio	%		82.0	82.0	82.0	83.0	83.0	83.0	84.0	82.0	82.0
DC resistance	Loop	Ohm / km	36.5	36.5	43.0	39.6	34.5	34.5	26.5	26.5	26.5
	Inner conductor	Ohm / km	18.5	18.5	18.5	15.6	15.5	15.5	14.5	14.5	14.5
Max. current	I _{eff.}	A	7.0	7.0	6.0	6.8	8.0	8.0	8.0	8.0	8.0
Attenuation at	5 MHz	dB / 100 m	1.2	1.2	1.3	1.2	1.1	1.1	1.1	1.1	1.1
	10 MHz	dB / 100 m	1.7	1.7	1.8	1.6	1.5	1.5	1.5	1.5	1.5
	50 MHz	dB / 100 m	3.9	3.9	4.1	3.7	3.5	3.5	3.4	3.4	3.4
	100 MHz	dB / 100 m	5.6	5.6	5.8	5.3	5.1	5.1	4.9	4.9	4.9
	200 MHz	dB / 100 m	8.0	8.0	8.4	7.6	7.3	7.3	7.0	7.0	7.0
	230 MHz	dB / 100 m	8.6	8.6	9.0	7.9	7.8	7.8	7.5	7.5	7.5
	300 MHz	dB / 100 m	9.9	9.9	10.4	9.3	8.9	8.9	8.5	8.5	8.5
	400 MHz	dB / 100 m	11.6	11.6	12.1	10.9	10.5	10.5	10.1	10.1	10.1
	600 MHz	dB / 100 m	14.4	14.4	15.1	13.6	13.0	13.0	12.5	12.5	12.5
	800 MHz	dB / 100 m	16.9	16.9	17.6	15.8	15.2	15.2	14.6	14.6	14.6
	860 MHz	dB / 100 m	17.6	17.6	18.2	16.4	15.8	15.8	15.1	15.1	15.1
	1000 MHz	dB / 100 m	19.1	19.1	19.9	17.9	17.1	17.1	16.5	16.5	16.5
	1350 MHz	dB / 100 m	22.7	22.7	23.6	21.1	20.2	20.2	19.5	19.5	19.5
	1600 MHz	dB / 100 m	24.9	24.9	26.0	23.1	22.2	22.2	21.4	21.4	21.4
	1750 MHz	dB / 100 m	26.3	26.3	27.3	24.3	23.4	23.4	22.6	22.6	22.6
2150 MHz	dB / 100 m	29.6	29.6	30.7	27.3	26.2	26.2	25.3	25.3	25.3	
2400 MHz	dB / 100 m	31.5	31.5	32.8	29.1	27.9	27.9	27.0	27.0	27.0	
Return loss at	5 – 470 MHz	dB	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	dB	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	dB	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	dB	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0	> 85.0



Construction and dimensions										
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.1	1.1	1.1	1.2	1.2	1.2	1.25	1.25	1.25
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
	Diameter dielectric	mm	5.0 ± 0.15	5.0 ± 0.15	5.0 ± 0.15	5.4 ± 0.15	5.4 ± 0.15	5.4 ± 0.15	5.7 ± 0.15	5.7 ± 0.15
Type of foil		Cu	Cu	AL-PET-AL	AL-PET-AL	Cu	Cu	Cu	Cu	Cu
Overlap foil	mm	2	2	2	2	2	2	2	2	2
Braiding material		Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%	40	40	40	40	40	40	50	50	50
Diameter outer conductor	mm	5.44 ± 0.25	5.44 ± 0.25	5.44 ± 0.25	5.84 ± 0.25	5.84 ± 0.25	5.84 ± 0.25	6.3 ± 0.25	6.3 ± 0.25	6.3 ± 0.25
Sheath material		PE	PVC	PVC	PVC	PVC	LSNH	PVC	PE	HDPE
Diameter sheath	mm	6.8 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	7.1 ± 0.3	7.1 ± 0.3	7.1 ± 0.3	8.1 ± 0.3	8.1 ± 0.3	8.1 ± 0.3
Min. setting radius	mm	70	70	35	35	70	70	80	80	80
Max. tensile strength	N	70	70	70	80	80	80	90	90	90

Belden part number	49026	46107	46111	46474	46475	46594	43093	49032	49038
Colour	BLACK	WHITE	BLACK WHITE	BLACK WHITE	BLACK GREY WHITE	GREY	BLACK	BLACK	GREEN
Put-up code	172 / 241	172	172 / 179 241	011 / 172 179	011 / 240 172 / 174	240	241	241	241
Length / reel	meter	100 / 1000	100	100 / 250 1000	250 / 100 250	500	500	500	500
Total weight	kg / km	44.9	50.1	42.2	43.6	46.9	46.9	62.5	52.3

Belden Coaxial Cables for Broadband

Composite Cables

Product description		Distribu- tion	DROP			
		PRG11 CU DATADROP PE	H125 CU DATADROP PVC	H125 AL DATADROP PVC	PRG7 CU DATADROP PE	RG6 DB + UNIDROP PVC
Electrical performance		coax				
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	55 ± 2	55 ± 3	55 ± 3	54 ± 2	54 ± 2
Velocity ratio	%	81.0	81.0	84.0	83.0	82.0
DC resistance	Loop	20.0	41.0	50.0	34.5	37.0
	Inner conductor	9.4	23.0	23.0	15.5	23.0
Max. current	I _{eff.} A	12.0	7.4	6.0	8.0	6.0
Attenuation at	5 MHz	0.9	1.3	1.4	1.1	1.8
	10 MHz	1.2	1.8	2.2	1.5	2.0
	50 MHz	2.7	4.2	4.4	3.5	4.8
	100 MHz	3.9	6.0	6.2	5.1	6.6
	200 MHz	5.7	8.6	8.9	7.3	9.3
	230 MHz	6.1	9.1	9.2	7.8	9.6
	300 MHz	6.9	10.5	10.9	8.9	11.0
	400 MHz	8.2	12.4	12.9	10.5	13.4
	600 MHz	10.2	15.4	16.0	13.0	16.7
	800 MHz	12.0	18.0	18.8	15.2	19.5
	860 MHz	12.5	18.3	19.1	15.8	20.2
	1000 MHz	13.6	20.4	21.2	17.1	22.0
	1350 MHz	16.1	24.1	25.1	20.2	26.0
	1600 MHz	17.9	26.7	27.7	22.2	27.7
	1750 MHz	18.7	27.9	29.0	23.4	29.0
	Return loss at	2150 MHz	21.1	31.4	32.7	26.2
2400 MHz		22.5	33.5	34.8	27.9	35.0
5 – 470 MHz		> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
Screening efficiency	470 – 862 MHz	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
	30 – 1000 MHz	> 85.0	> 85.0	> 85.0	> 85.0	> 95.0



Construction and dimensions						
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.55	1.0	1.0	1.2	1.0
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	7.25 ± 0.2	4.8 ± 0.15	4.8 ± 0.15	5.4 ± 0.15	4.57 ± 0.15
Type of foil		Cu	Cu	AL-PET-AL	Cu	AL-PET-AL ⁽¹⁾
Overlap foil	mm	2	2	2	2	1
Braiding material		Bare copper	Bare copper	Annealed tinned copper	Bare copper	Annealed tinned copper
Braid coverage	%	50	40	40	40	50
Diameter outer conductor	mm	7.9 ± 0.25	5.24 ± 0.2	5.34 ± 0.2	5.84 ± 0.25	5.5 ± 0.2
Sheath material		PE	PVC	PVC	PE	PVC
Diameter sheath	B mm	10.1 ± 0.3	6.8 ± 0.2	6.8 ± 0.2	7.1 ± 0.3	6.9 ± 0.2
	C mm	15.1 ± 0.3	11.8 ± 0.2	11.8 ± 0.2	12.1 ± 0.3	11.9 ± 0.2
Min. setting radius	mm	100	70	35	70	70
Max. tensile strength	N	250	55	55	80	55

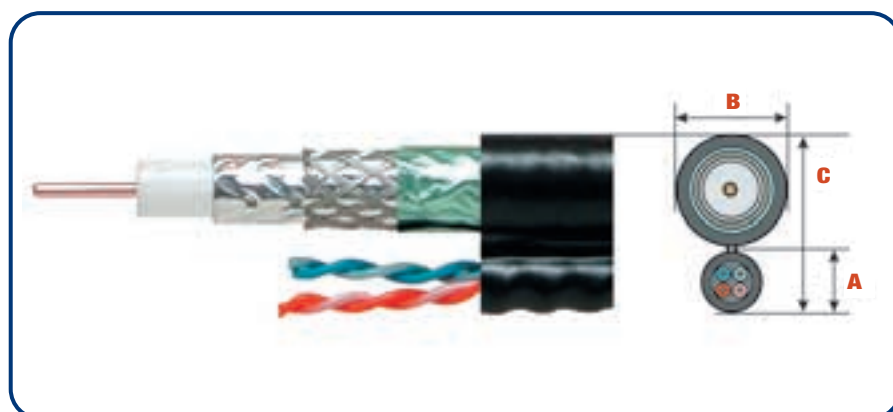
Belden part number	49041	46005	46074	49046	43089
Colour	BLACK	BLACK WHITE	WHITE	BLACK	BLACK WHITE
Put-up code	241	241	241	242	241
Length / reel	meter	250	500	500	500
Total weight	kg / km	96.0	63.2	63.0	61.0

⁽¹⁾ AL-PET (L-folded) bonded to sheath

UTP Information

			UTP
Product description			2 UTP
Electrical performance			pair
Impedance	Ohm		100 ± 15
Capacitance	pF / m		49 ± 5
Velocity ratio	%		67.0
DC resistance	Loop	Ohm / km	94.0
	Inner conductor	Ohm / km	
Attenuation at	1 MHz	dB / 100 m	2.1
	10 MHz	dB / 100 m	6.6
	16 MHz	dB / 100 m	8.2
	20 MHz	dB / 100 m	9.2
	31.25 MHz	dB / 100 m	11.8
	62.5 MHz	dB / 100 m	17.1
Next	1 MHz	dB	62.0
	10 MHz	dB	47.0
	16 MHz	dB	44.0
	31.25 MHz	dB	40.0
	62.5 MHz	dB	35.0
	100 MHz	dB	32.0

Construction and dimensions		
Material conductor		Bare copper AWG 24
Diameter conductor	mm	0.5
Material insulation		Solid PE
Diameter dielectric	mm	0.9
Number of pairs		2
Colour	Pair 1	WHITE – ORANGE / ORANGE
	Pair 2	WHITE – BLUE / BLUE
Diameter over sheath	A mm	4.6 ± 0.25



Belden Coaxial Cables for Broadband

Coaxial Connection Cables

Product description		Connection						
		H105 PVC	H106 PVC	H106 LSNH	RG59 PVC	H110 PVC	H12 PVC	H12 A PVC
Electrical performance								
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	67 ± 2	67 ± 2	67 ± 2	67 ± 2	59 ± 2	66 ± 2	55 ± 2
Velocity ratio	%	66.0	66.0	66.0	66.0	78.0	66.0	80.0
DC resistance	Loop	56.0	93.5	93.5	173.0	132.0	92.5	65.0
	Inner conductor	45.0	75.0	75.0	158.0	80.0	80.0	53.0
Attenuation at	5 MHz	2.2	2.6	2.6	2.9	3.0	2.7	2.4
	10 MHz	2.9	3.5	3.5	4.0	4.8	3.8	3.4
	50 MHz	6.6	8.0	8.0	8.0	10.7	8.7	7.5
	100 MHz	9.5	11.6	11.6	11.6	14.2	12.4	10.7
	200 MHz	13.7	17.0	17.0	17.0	20.4	17.8	15.2
	230 MHz	14.7	18.3	18.3	18.3	21.9	19.1	16.3
	300 MHz	16.8	21.2	21.2	21.2	25.4	22.0	18.8
	400 MHz	19.4	24.5	24.5	24.5	29.3	25.6	21.8
	600 MHz	24.3	31.1	31.1	31.1	36.0	31.8	26.9
	800 MHz	29.1	37.8	37.8	37.8	42.1	37.2	31.3
	860 MHz	30.1	39.2	39.2	39.2	43.7	38.6	32.5
	1000 MHz	32.8	42.9	42.9	42.9		42.1	35.2
	1350 MHz	32.8	50.0	50.0	50.0			
	1600 MHz	41.5	54.5	54.5	54.5			
	1750 MHz	43.4	57.0	57.0	57.0			
	2150 MHz	48.1	63.0	63.0	63.0			
Return loss at	5 – 470 MHz	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0	> 30.0	> 30.0
	470 – 862 MHz	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0	> 25.0	> 25.0
	862 – 2150 MHz	> 16.0	> 16.0	> 16.0	> 16.0		> 25.0	> 25.0
Screening efficiency	30 – 1000 MHz	> 75.0	> 75.0	> 75.0	> 65.0		> 50.0	> 50.0



Construction and dimensions								
Material conductor		Bare copper	Bare copper	Bare copper	Copper clad steel	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	0.7	0.58	0.58	0.58	0.6	0.6	0.8
Construction	n x mm					7 x 0.193	7 x 0.2	12 x 0.193
Material dielectric		Solid PE	Solid PE	Solid PE	Solid PE	Gas injected PE	Solid PE	Gas injected PE
Diameter dielectric	mm	4.6 ± 0.15	3.7 ± 0.15	3.7 ± 0.15	3.7 ± 0.15	2.5 ± 0.15	3.5 ± 0.15	3.5 ± 0.15
Braiding I material		Bare copper	Annealed tinned copper	Annealed tinned copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage I	%	93	92	92	95	52	91	91
Braiding II material		Bare copper	Annealed tinned copper	Annealed tinned copper				
Braid coverage II	%	92	92	92				
Diameter outer conductor	mm	5.7 ± 0.25	4.8 ± 0.25	4.8 ± 0.25	4.3 ± 0.25	2.85 ± 0.2	4.1 ± 0.2	4.1 ± 0.2
Sheath material		PVC	PVC	PVC	PVC	PVC	PVC	PVC
Diameter sheath	mm	7.2 ± 0.3	6.0 ± 0.3	6.0 ± 0.3	6.15 ± 0.3	4.15 ± 0.2	5.6 ± 0.2	5.6 ± 0.2
Min. setting radius	mm	35	30	30	30	25	25	25

Belden part number	46036	43101	43102	46100	43654	43340	43346
Colour	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
Put-up code	172 / 174 240	172 / 011	172 / 011	172 / 173 011 / 241	241	172 / 173 011	172 / 173 011
Length / reel	meter	100 / 200 500	100 / 500	100 / 500 100 / 200 500 / 1000	2500	100 / 200 500	100 / 200 500
Total weight	kg / km	80.0	57.0	58.0	53.0	18.2	41.6

Coaxial 50 Ohm Cables

			50 OHM					
Product description			RG58 PVC	RG58 PVC TWIN	H155 PVC	H155 PE	RACO 25 PVC	H1000 R PVC
Electrical performance								
Impedance	Ohm		50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Capacitance	pF / m		100 ± 2	100 ± 2	82 ± 2	82 ± 2	100 ± 2	80 ± 2
Velocity ratio	%		66.0	66.0	81.0	81.0	66.0	83.0
DC resistance	Loop	Ohm / km	51.0	51.0	32.0	32.0	56.3	38.5
	Inner conductor	Ohm / km	36.0	36.0	15.0	15.0	6.0	3.5
Attenuation at	5 MHz	dB / 100 m	3.7	3.7	2.3	2.3	3.1	1.6
	10 MHz	dB / 100 m	4.7	4.7	3.0	3.0	3.3	2.0
	50 MHz	dB / 100 m	10.6	10.6	6.5	6.5	7.4	4.5
	100 MHz	dB / 100 m	15.1	15.1	9.3	9.3	10.4	6.3
	200 MHz	dB / 100 m	21.4	21.4	13.2	13.2	15.0	9.0
	230 MHz	dB / 100 m	23.0	23.0	14.2	14.2	15.9	9.6
	300 MHz	dB / 100 m	26.5	26.5	16.3	16.3	18.9	11.4
	400 MHz	dB / 100 m	29.7	29.7	19.0	19.0	21.4	13.0
	600 MHz	dB / 100 m	37.9	37.9	23.0	23.0	26.0	15.9
	800 MHz	dB / 100 m	44.2	44.2	26.5	26.5	30.4	18.7
	860 MHz	dB / 100 m	45.8	45.8	27.5	27.5	31.3	19.4
	1000 MHz	dB / 100 m	49.6	49.6	30.9	30.9	36.3	22.5
	1350 MHz	dB / 100 m	58.2	58.2	35.9	35.9		
	1600 MHz	dB / 100 m	63.9	63.9	40.5	40.5		
	1750 MHz	dB / 100 m	66.8	66.8	42.3	42.3		
	2150 MHz	dB / 100 m	74.6	74.6	46.9	46.9		
2400 MHz	dB / 100 m	78.9	78.9	49.6	49.6			
Power rating at 40 C	7 MHz	Watt	940	940	950	950		
	14 MHz	Watt	660	660	670	670		
	21 MHz	Watt	540	540	550	550		
	28 MHz	Watt	470	470	470	470		
	50 MHz	Watt	350	350	350	350		
	100 MHz	Watt	250	250	250	250		
	144 MHz	Watt	210	210	210	210		
	432 MHz	Watt	120	120	120	120		
	800 MHz	Watt	85	85	85	85		
	900 MHz	Watt	80	80	80	80		
	1296 MHz	Watt	65	65	65	65		
2320 MHz	Watt	50	50	50	50			
5000 MHz	Watt	30	30	30	30			
10000 MHz	Watt	20	20	20	20			
Return loss at	5 – 470 MHz	dB	> 20.0	> 20.0	> 23.0	> 23.0		
	470 – 862 MHz	dB	> 18.0	> 18.0	> 20.0	> 20.0		
	862 – 2150 MHz	dB	> 16.0	> 16.0	> 18.0	> 18.0		
Screening efficiency	30 – 1000 MHz	dB	> 65.0	> 65.0	> 85.0	> 85.0		



Construction and dimensions								
Material conductor		Stranded soft annealed tinned copper	Stranded soft annealed tinned copper	Stranded soft annealed copper	Stranded soft annealed copper	Stranded soft annealed copper	Bare copper	
Diameter conductor	mm	0.91	0.91	1.41	1.41	2.25	2.62	
Construction	n x mm	19 x 0.18	19 x 0.18	19 x 0.28	19 x 0.28	7 x 0.75		
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Solid PE	Gas injected PE	
Diameter dielectric	mm	2.95 ± 0.15	2.95 ± 0.15	3.9 ± 0.15	3.9 ± 0.15	7.25 ± 0.2	7.15 ± 0.2	
Type of foil				Al-PET-AL	Al-PET-AL			
Overlap foil	mm			2	2			
Braiding material		Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Bare copper	Bare copper	
Braid coverage	%	93	93	80	80	25	25	
Diameter outer conductor	mm	3.5 ± 0.15	3.5 ± 0.15	4.5 ± 0.2	4.5 ± 0.2	7.8 ± 0.25	7.7 ± 0.25	
Sheath material		PVC	PVC	PVC	PE	PVC	PVC	
Diameter sheath	mm	4.95 ± 0.2	4.95 ± 0.2	5.4 ± 0.2	5.4 ± 0.2	10.3 ± 0.3	10.3 ± 0.3	
Min. setting radius	mm	50	50	35	35	100	100	

Belden part number	43633	46289	46220	49225	43643	43646
Colour	BLACK	BLACK	GREY	BLACK	GREY YELLOW	BLACK
Put-up code	011 / 172 / 177	241	011 / 028 172 / 177 / 240	177 / 240	014	242
Length / reel	meter	500 / 200 / 100	500	100 / 1000	500	500
Total weight	kg / km	35.0	74.6	38.3	38.3	117.0

Belden Coaxial Cables for Broadband

Coaxial 50 Ohm Cables

			50 OHM					
Product description			RG213 PVC	H1000 B PE	H1000 PVC	H1000 PE	H1001 PE	H500 PE
Electrical performance								
Impedance	Ohm		50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Capacitance	pF / m		100 ± 2	80 ± 2	80 ± 2	80 ± 2	80 ± 2	82 ± 2
Velocity ratio	%		66.0	83.0	83.0	83.0	83.0	81.0
DC resistance	Loop	Ohm / km	11.5	8.0	12.3	12.3	16.5	14.2
	Inner conductor	Ohm / km	6.0	3.5	3.5	3.5	4.5	3.5
Attenuation at	5 MHz	dB / 100 m	1.6	0.8	0.8	0.8	1.0	0.9
	10 MHz	dB / 100 m	2.0	1.2	1.2	1.2	1.5	1.3
	50 MHz	dB / 100 m	4.6	2.8	2.8	2.8	3.3	2.9
	100 MHz	dB / 100 m	6.6	4.0	4.0	4.0	4.7	4.1
	200 MHz	dB / 100 m	9.5	5.7	5.7	5.7	6.7	6.0
	230 MHz	dB / 100 m	10.1	6.1	6.1	6.1	7.2	6.5
	300 MHz	dB / 100 m	11.6	7.0	7.0	7.0	9.8	7.5
	400 MHz	dB / 100 m	13.8	8.4	8.4	8.4	10.6	8.7
	600 MHz	dB / 100 m	17.0	10.4	10.4	10.4	12.2	10.9
	800 MHz	dB / 100 m	20.0	12.3	12.3	12.3	14.4	12.9
	860 MHz	dB / 100 m	20.7	13.8	13.8	13.8	14.9	13.4
	1000 MHz	dB / 100 m	22.6	14.0	14.0	14.0	16.2	14.6
	1350 MHz	dB / 100 m	26.8	16.7	16.7	16.7	19.3	17.4
	1600 MHz	dB / 100 m	29.7	18.7	18.7	18.7	21.4	19.4
	1750 MHz	dB / 100 m	31.1	19.5	19.5	19.5	22.4	20.3
2150 MHz	dB / 100 m	35.1	22.5	22.5	22.5	25.3	23.0	
2400 MHz	dB / 100 m	37.1	23.6	23.6	23.6	27.1	24.6	
Power rating at 40 C	7 MHz	Watt	3700	4500	3200	3200	2600	3000
	14 MHz	Watt	2600	3200	2200	2200	1850	2100
	21 MHz	Watt	2100	2600	1840	1840	1500	1720
	28 MHz	Watt	1800	2200	1590	1590	1300	1490
	50 MHz	Watt	1350	1700	1180	1180	970	1100
	100 MHz	Watt	950	1200	820	820	680	770
	144 MHz	Watt	780	1000	680	680	560	640
	432 MHz	Watt	440	600	370	370	310	350
	800 MHz	Watt	320	400	265	265	230	250
	900 MHz	Watt	290	400	250	250	210	240
	1296 MHz	Watt	240	300	200	200	170	190
	2320 MHz	Watt	170	200	145	145	125	140
5000 MHz	Watt	110	200	90	90	80	90	
10000 MHz	Watt	70	100	55	55	50	55	
Return loss at	5 – 470 MHz	dB	> 20.0	> 23.0	> 23.0	> 23.0	> 23.0	> 23.0
	470 – 862 MHz	dB	> 18.0	> 20.0	> 20.0	> 20.0	> 20.0	> 20.0
	862 – 2150 MHz	dB	> 16.0	> 18.0	> 18.0	> 18.0	> 18.0	> 18.0
Screening efficiency	30 – 1000 MHz	dB	> 65.0	> 100.0	> 100.0	> 100.0	> 100.0	> 95.0



Construction and dimensions								
Material conductor			Stranded soft annealed copper	Bare copper	Bare copper	Bare copper	Stranded soft annealed copper	Bare copper
Diameter conductor	mm		2.25	2.62	2.62	2.62	2.70	2.50
Construction	n x mm		7.0 x 0.75				19.0 x 0.54	
Material dielectric			Solid PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm		7.25 ± 0.2	7.15 ± 0.2	7.15 ± 0.2	7.15 ± 0.2	7.15 ± 0.2	7.0 ± 0.2
Type of foil				CuPET	Cu	Cu	CuPET	Cu
Overlap foil	mm			2	2	2	2	2
Braiding material			Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%		92	85	49	49	49	50
Diameter outer conductor	mm		7.8 ± 0.25	8.0 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	7.45 ± 0.2
Sheath material			PVC	PE	PVC	PE	PE	PE
Diameter sheath	mm		10.3 ± 0.3	10.3 ± 0.3	10.3 ± 0.3	10.3 ± 0.3	10.3 ± 0.3	9.8 ± 0.2
Min. setting radius	mm		50	50	100	100	50	75

Belden part number	43673	49056	46531	49025	49205	49305
Colour	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
Put-up code	151 / 153 240 / 242 / 245	242	151 / 245 240 / 242	242	242	042 151 / 153 240 / 242
Length / reel	meter	500	100 / 1000 250 / 500	500	500	2000 100 / 200 250 / 500
Total weight	kg / km	136	155	141	120	109

Put-up File

Put-up code	Put-up description	Number of reels / pallet	Pallet dimensions in mm (L x W x H)
011	Non returnable reel 350/130/250	27	1200 x 1000 x 1050
014	Non returnable reel 630/300/445	8	1200 x 1000 x 1800
025	Non returnable reel 800/500/450	-	
028	Non returnable reel 315/130/200	44	1200 x 1000 x 1100
040	Non returnable reel 250/100/160	54	1200 x 1000 x 700
042	Non returnable reel 1000/500/500	-	
043	Non returnable reel 1250/600/600	-	
079	Non returnable reel 400/200/264	18	1200 x 1000 x 1050
091	Non returnable reel 1000/450/500	-	
092	Non returnable reel 430/100/200	20	1200 x 1000 x 1050
106	Non returnable reel 352/102/152	54	1200 x 1000 x 1250
151	RING 100M		
152	RING 150M		
153	RING 200M		
172	BOX 325 x 325 x 83	100	1200 x 1000 x 1100
173	BOX 394 x 394 x 94	60	1200 x 1000 x 1100
174	BOX 394 x 394 x 129	42	1200 x 1000 x 1100
175	BOX 244 x 244 x 52	235	1200 x 1000 x 1100
177	BOX 272 x 272 x 74	150	1200 x 1000 x 1100
178	UNREEL BOX 350 x 220 x 350	26	1200 x 1000 x 940
179	UNREEL BOX 410 x 230 x 410	20	1200 x 1000 x 1060
240	Non returnable reel 500/250/245	12	1200 x 1000 x 1050
241	Non returnable reel 560/250/320	6	1200 x 1000 x 950
242	Non returnable reel 560/250/380	12	1200 x 1000 x 1900
245	Non returnable reel 800/400/450	-	
261	Non returnable reel 350/130/250	27	1200 x 1000 x 1050
293	Non returnable reel 1250/600/600	-	
422	BOX 325 x 325 x 83	100	1200 x 1000 x 1100
702	Non returnable reel 450/200/265	-	

Number of reels x length per reels = length per pallet

Belden across the globe

Europe:

The Netherlands

Belden Wire & Cable B.V.
Edisonstraat 9
5928 PG Venlo
The Netherlands
(Headquarters)
Phone: +31 77 3878555
Fax: +31 77 3878448

Austria

Belden Wire & Cable B.V.
Zweigniederlassung Österreich
Inkustraße 1 – 7/8
3400 Klosterneuburg
Austria
Phone: +43 2243 22993
Fax: +43 2243 2299340

Germany

Belden – EIW GmbH
Am Krebsgraben 1–3
78048 Villingen-Schwenningen
Germany

Belden Infoline
Phone: +49 2137 929010
Fax: +49 2137 929012

France

Belden Electronics S.A.R.L.
Immeuble Le César
20, Place Louis Pradel
69001 Lyon
France
Phone: +33 472 109990
Fax: +33 478 298409

Great Britain

Belden UK
Top Office
10, Watergate Row
Watergate Street
Chester, Cheshire
CH1 2LD
Great Britain
Phone: +44 1244 350535
Fax: +44 1244 350635

Internet: www.belden.com
E-mail: sales.catv@belden.nl

Hungary

Belden – Dunakabel Kft.
Hengermalom Str. 43
1116 Budapest
Hungary
Phone: +36 1206 1987
Fax: +36 1206 1986

Italy

Belden International Inc.
Via Paracelso 26
Centro Direzionale Colleoni
Palazzo Cassiopea Ingr. 3
20041 Agrate Brianza (MI)
Italy
Phone: +39 039 6560911
Fax: +39 039 6560929

Russia

Belden Office Moscow
UL. Gubkina, 8
117333 Moscow
Russia
Phone/Fax: +7 095 938 2754

Spain

Belden Electronics
Torreon, 34
P.O. Box 10
28260 Galapagar (Madrid)
Spain
Phone: +34 91 858 7620
Fax: +34 91 858 7621

Sweden

Belden Wire & Cable B.V.
Stadshusplatsen 2
14930 Nynäshamn
Sweden
Phone: +46 8 52010275
Fax: +46 8 52010276

Worldwide:

Africa/Middle East

Belden Wire & Cable
Dubai Internet City
Building One, Suite 216
P.O. Box 500158
Dubai
United Arab Emirates
Phone: +971 4 391 0490
Fax: +971 4 391 8775

Australia

Belden Australia Pty. Ltd.
Olympia Street
Tottenham, Victoria 3012
Australia
Phone: +61 3 9224 2800
Fax: +61 3 9314 8515

Canada

Belden Canada Inc.
130 Willmott Street
Cobourg, Ontario
Canada K9A 4M3
Phone: +905 372 8713
Fax: +905 372 6291

Singapore

Belden International, Inc.
101 Thompson Road, #07-02
United Square
Singapore 307591
Phone: +01165 251 8211
Fax: +01165 251 5010

USA

Belden Wire & Cable Co.
P.O. Box 1980
Richmond, IN 47375
United States
Phone: +1 765 983 5200
Fax: +1 765 983 5294

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