



Coaxial Cables

for Broadband Communication Networks

European Edition



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 world-wide 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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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 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-europe.com



USA



United Kingdom



The Netherlands

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 stringent international quality standards.

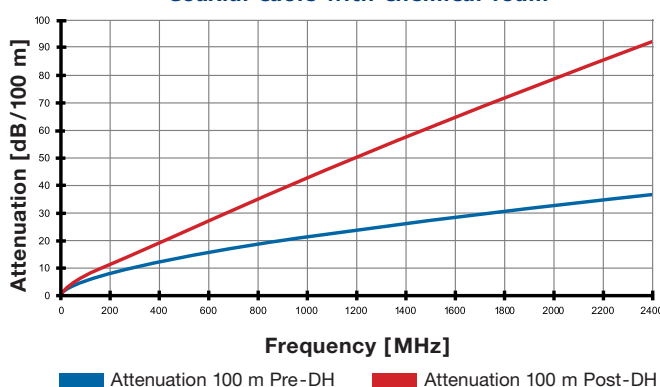
The most important advantages of the physically foamed dielectric are:

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

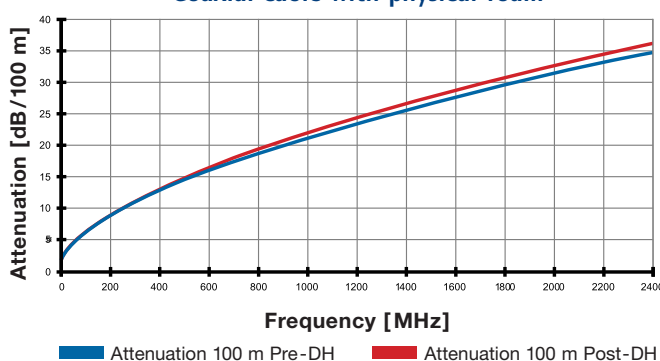
A damp heat test is defined in the IEC standard 68-2 part 3. The results reproduce the influence of moisture. After the damp heat test the attenuation must not have increased by more than 5% in respect to the pre-test value. The two graphics show the results of this test for the Belden physically and 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 ensures 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 Flamarrest®, 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 world-wide, 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 EN50117.

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.



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		21
0.91	4.95	PVC	Gas injected PE		93	51.00	15.10	RG58	46289	twin	21
1.41	5.40	PE	Gas injected PE	AL-PET-AL	80	32.00	9.30	H155	49225		21
1.41	5.40	PVC	Gas injected PE	AL-PET-AL	80	32.00	9.30	H155	46220		21
2.50	9.80	PE	Gas injected PE	Cu	50	14.20	4.10	H500	49305		20
2.25	10.30	PVC	Solid PE		25	56.30	10.40	RAC0 25	43643	radiating	21
2.25	10.30	PVC	Solid PE		92	11.50	6.60	RG213	43673		20
2.62	10.30	PVC	Gas injected PE		25	38.50	6.30	H1000R	43646	radiating	21
2.62	10.30	PE	Gas injected PE	CuPET	85	8.00	4.00	H1000B	49056		20
2.62	10.30	PVC	Gas injected PE	Cu	49	12.30	4.00	H1000	46531		20
2.62	10.30	PE	Gas injected PE	Cu	49	12.30	4.00	H1000	49025		20
2.70	10.30	PE	Gas injected PE	CuPET	49	16.50	4.70	H1001	49205		20

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	LSNH	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		16
0.65	4.30	LSNH	Gas injected PE	AL-PET-AL	90	72.00	10.00	H123B	43091		16
0.65	4.30	PVC	Gas injected PE	AL-PET-AL	90	72.00	10.00	H123B	46158		16
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		16
0.71	7.10	PE	Solid PE	Cu	60	61.00	8.20	COAX 12	49084		16
0.71	7.10	PE	Solid PE	Cu	60	61.00	8.20	COAX 12	49014	messenger	16
0.72	6.80	PVC	Solid PE	AL-PET-AL	35	237.00	8.20	H114A	46103		16
0.72	6.80	PVC	Solid PE	AL-PET-AL	65	228.00	8.20	H114B	46485		16
0.80	5.00	LSNH	Gas injected PE	AL-PET-AL	75	55.00	7.90	H121B	43179		15
0.80	5.00	PE	Gas injected PE	AL-PET-AL	45	75.00	7.90	H121	49302		15
0.80	5.00	PVC	Gas injected PE	AL-PET-AL	75	55.00	7.90	H121B	46150		15
0.80	5.00	PVC	Gas injected PE	Cu	45	59.00	7.60	H121	46471		15
0.80	5.00	PVC	Gas injected PE	AL-PET-AL	45	75.00	7.90	H121	46596	twin	15
0.80	5.00	PVC	Gas injected PE	AL-PET-AL	45	75.00	7.90	H121	46978		15
0.80	5.60	PVC	Gas injected PE		91	65.00	10.70	H12A	43346		19
1.00	5.90	PVC	Gas injected PE	AL-PET-AL	40	58.00	6.40	H124	46489		15
1.00	6.65	LSNH	5 Cell PE	Cu	55	41.00	6.00	H109	46981		14
1.00	6.33	PVC	5 Cell PE	AL-PET-AL	65	47.00	6.20	H109B	46366		14
1.00	6.33	PVC	5 Cell PE	AL-PET-AL	40	50.00	6.20	H109	46462		14
1.00	6.65	PVC	5 Cell PE	Cu	55	41.00	6.00	H109	46580		14
1.00	6.80	LSNH	Gas injected PE	Cu	40	41.00	6.00	H125	46117		14
1.00	6.80	LSNH	Gas injected PE	AL-PET-AL	70	41.00	6.20	H125 CH	46123		13
1.00	6.80	LSNH	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46428		13
1.00	6.80	PE	Gas injected PE	Cu	40	41.00	6.00	H125	49004		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	PE	Gas injected PE	AL-PET-AL	70	41.00	6.20	H125 CH	49045		13
1.00	6.80	PE	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	49196		13
1.00	6.80	PE	Gas injected PE	Cu	40	41.00	6.00	H125	49057	messenger	14
1.00	6.80	PVC	Gas injected PE	Cu	40	41.00	6.00	H125	43087	twin	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	6.90	PE	Gas injected PE	AL-PET-AL DB+	50	37.00	6.20	H125 DB+	49060		13
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	70	41.00	6.20	H125 CH	46359		13
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46401		13
1.00	6.80	PVC	Gas injected PE	AL-PET-AL	40	50.00	6.20	H125	46425	twin	13
1.00	6.80	PVC	Gas injected PE	Cu	40	41.00	6.00	H125	46014		14
1.00	6.90	LSNH	Gas injected PE	AL-PET-AL DB+	50	37.00	6.40	H126 DB+	43155	RG6 type	12
1.00	6.90	PE	Gas injected PE	AL-PET-AL DB+	50	37.00	6.40	H126 DB+	49053	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	50	37.00	6.40	H126 DB+	43089	RG6 type + pairs	17
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	50	37.00	6.40	H126 DB+	46147	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	40	39.00	6.40	H126 DB+	43030	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL	50	45.00	6.40	H126	43106	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL bonded	50	45.00	6.40	H126	43107	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL bonded	70	40.00	6.40	H126	43112	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL	40	49.00	6.40	H126	46081	RG6 type	12
1.00	6.90	PVC	Gas injected PE	AL-PET-AL	40	81.00	6.40	RG6	43140		11
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	50	69.00	6.40	RG6 DB+	46146		11
1.00	6.90	PVC	Gas injected PE	AL-PET-AL DB+	40	71.00	6.40	RG6 DB+	43029		11
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		11
1.20	7.10	PE	Gas injected PE	Cu	40	34.50	5.10	PRG7	49309		11
1.20	7.10	PE	Gas injected PE	Cu	40	34.50	5.10	PRG7	49055	messenger	11
1.20	7.10	PVC	Gas injected PE	Cu	40	34.50	5.10	PRG7	46475		11
1.25	8.10	HDPE	Gas injected PE	Cu	50	26.50	4.90	RG7	49038		11
1.25	8.10	PE	Gas injected PE	Cu	50	26.50	4.90	RG7	49032		11
1.25	8.10	PVC	Gas injected PE	Cu	50	26.50	4.90	RG7	43093		11
1.55	10.10	LSNH	Gas injected PE	Cu	50	20.00	3.90	PRG11	46027		9
1.55	10.10	PE	Gas injected PE	Cu	50	20.00	3.90	PRG11	49001		9
1.55	10.10	PE	Gas injected PE	AL-PET-AL	50	22.20	4.10	PRG11	49002		10
1.55	10.10	PE	Gas injected PE	Cu	50	20.00	3.90	PRG11	49006	messenger	9
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	4.10	PRG11	49054		10
1.55	10.10	PVC	Gas injected PE	Cu	50	20.00	3.90	PRG11	46365		9
1.55	10.10	PVC	Gas injected PE	AL-PET-AL	50	22.20	4.10	PRG11	46467		10
1.55	10.10	PVC	Gas injected PE	AL-PET-AL DB+	50	18.90	4.10	PRG11	43154		10
1.61	10.10	LSNH	Gas injected PE	AL-PET-AL	60	19.30	3.90	PRG11A	46399		10
1.61	10.10	PVC	Gas injected PE	AL-PET-AL	60	19.30	3.90	PRG11A	46118		10
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		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		4.50	1.80	COAX 3	49048		7
3.38	21.60	HDPE	Gas injected PE	Cu	60	4.50	1.80	COAX 3	49059		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

Coaxial Trunk Cables



	COAX 3				
Product description	FB21 HDPE	FB20 PE	FB20 LSNH	FB20 PE messenger	F18 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	53 ± 3
Velocity ratio	%	78.0	84.0	84.0	84.0	84.0
DC resistance	Loop	Ohm / km	4.5	4.5	4.5	4.5
	Inner conductor	Ohm / km	1.9	1.9	1.9	1.9
Max. current	leff.	A	30	30	30	30
Attenuation at	5 MHz	dB / 100 m	0.4	0.4	0.4	0.4
	10 MHz	dB / 100 m	0.6	0.6	0.6	0.6
	50 MHz	dB / 100 m	1.3	1.3	1.3	1.3
	100 MHz	dB / 100 m	1.8	1.8	1.8	1.8
	200 MHz	dB / 100 m	2.6	2.6	2.6	2.6
	230 MHz	dB / 100 m	2.9	2.9	2.9	2.9
	300 MHz	dB / 100 m	3.3	3.3	3.3	3.3
	400 MHz	dB / 100 m	3.9	3.9	3.9	3.9
	600 MHz	dB / 100 m	4.8	4.8	4.8	4.8
	800 MHz	dB / 100 m	5.7	5.7	5.7	5.7
	860 MHz	dB / 100 m	5.9	5.9	5.9	5.9
	1000 MHz	dB / 100 m	6.5	6.5	6.5	6.5
	1350 MHz	dB / 100 m	7.7	7.7	7.7	7.7
	1750 MHz	dB / 100 m	9.0	9.0	9.0	9.0
	2150 MHz	dB / 100 m	10.2	10.2	10.2	10.2
Return loss at	5 – 470 MHz	dB	> 26	> 26	> 26	> 26
	470 – 862 MHz	dB	> 22	> 22	> 22	> 22
	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18
Screening efficiency	30 – 1000 MHz	dB	> 100	> 100	> 100	> 100

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	16.5 ± 0.2	14.9 ± 0.2	14.9 ± 0.2	14.9 ± 0.2	14.9 ± 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	17.6 ± 0.3	15.8 ± 0.3	15.8 ± 0.3	15.8 ± 0.3	15.3 ± 0.3
Sheath material		HDPE	PE	LSNH	PE	PE
Diameter sheath	mm	21.6 ± 0.3	19.8 ± 0.3	19.8 ± 0.3	19.8 ± 0.3	18.0 ± 0.3
Catenary wire					Zinc plated steel wires	
Diameter catenary wire	mm				7.2 ± 0.3	
Diameter width coax + catenary	mm				30 ± 0.4	
Min. setting radius	mm	220	200	200	200	180
Max. tensile strength	N	2000	1200	1200	6000	1200

Belden part number	49059	49028	46171	49047	49048
Colour	BLACK	BLACK GREEN	GREY	BLACK	BLACK GREEN
Put-up code	043	043 / 293	043	043	043 / 293
Length / reel	meter	700	700	700	700 / 1050
Total weight	kg / km	388	312	400	404

Coaxial Trunk Cables



	COAX 4				
Product description	FB14 PE	FB14 HDPE	FB14 LSNH	FB14 PE messenger	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	9	9	9
	Inner conductor	Ohm / km	4.5	4.5	4.5	4.5
Max. current	leff.	A	18	18	18	18
Attenuation at	5 MHz	dB / 100 m	0.6	0.6	0.6	0.6
	10 MHz	dB / 100 m	0.9	0.9	0.9	0.9
	50 MHz	dB / 100 m	1.9	1.9	1.9	1.9
	100 MHz	dB / 100 m	2.8	2.8	2.8	2.8
	200 MHz	dB / 100 m	4.0	4.0	4.0	4.0
	230 MHz	dB / 100 m	4.4	4.4	4.4	4.4
	300 MHz	dB / 100 m	5.1	5.1	5.1	5.1
	400 MHz	dB / 100 m	5.9	5.9	5.9	5.9
	600 MHz	dB / 100 m	7.4	7.4	7.4	7.4
	800 MHz	dB / 100 m	8.8	8.8	8.8	8.8
	860 MHz	dB / 100 m	9.2	9.2	9.2	9.2
	1000 MHz	dB / 100 m	10.0	10.0	10.0	10.0
	1350 MHz	dB / 100 m	11.9	11.9	11.9	11.9
	1750 MHz	dB / 100 m	13.9	13.9	13.9	13.9
Return loss at	2150 MHz	dB / 100 m	15.7	15.7	15.7	15.7
	2400 MHz	dB / 100 m	16.8	16.8	16.8	16.8
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20
	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18
Screening efficiency	30 – 1000 MHz	dB	> 100	> 100	> 100	> 100

Construction and dimensions						
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	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
Diameter dielectric	mm	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
Overlap foil	mm	4	4	4	4	4
Braiding material		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%	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	10.6 ± 0.3
Sheath material		PE	HDPE	LSNH	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
Catenary wire					Zinc plated steel wires	
Diameter catenary wire	mm				5.8 ± 0.3	
Diameter width coax + catenary	mm				21.5 ± 0.4	
Min. setting radius	mm	150	150	150	150	150
Max. tensile strength	N	400	400	400	6000	400

Belden part number	49307	49093	46057	49031	49308
Colour	BLACK GREEN	BLACK	GREEN	BLACK	BLACK GREEN
Put-up code	025 / 042	025	025	042	025 / 042
Length / reel	500 / 1000	500	500	500	500 / 1000
Total weight	167	168	192	225	164

Coaxial Distribution Cables



	COAX 6		PRG11 CU			
Product description	FB11 PE	FB11 HDPE	PRG11 CU PE	PRG11 CU PVC	PRG11 CU LSNH	PRG11 CU PE messenger



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	Ohm / km	15	15	20	20	20
	Inner conductor	Ohm / km	8.7	8.7	9.4	9.4	9.4
Max. current	I _{eff.}	A	15	15	12	12	12
Attenuation at	5 MHz	dB / 100 m	0.8	0.8	0.9	0.9	0.9
	10 MHz	dB / 100 m	1.2	1.2	1.2	1.2	1.2
	50 MHz	dB / 100 m	2.6	2.6	2.7	2.7	2.7
	100 MHz	dB / 100 m	3.7	3.7	3.9	3.9	3.9
	200 MHz	dB / 100 m	5.3	5.3	5.7	5.7	5.7
	230 MHz	dB / 100 m	5.9	5.9	6.1	6.1	6.1
	300 MHz	dB / 100 m	6.8	6.8	6.9	7.0	7.0
	400 MHz	dB / 100 m	7.7	7.7	8.2	8.2	8.2
	600 MHz	dB / 100 m	9.5	9.5	10.2	10.2	10.2
	800 MHz	dB / 100 m	11.1	11.1	12.0	12.0	12.0
	860 MHz	dB / 100 m	11.9	11.9	12.5	12.5	12.5
	1000 MHz	dB / 100 m	12.6	12.6	13.6	13.6	13.6
	1350 MHz	dB / 100 m	14.8	14.8	16.1	16.1	16.1
	1750 MHz	dB / 100 m	17.1	17.1	18.7	18.7	18.7
	2150 MHz	dB / 100 m	19.0	19.0	21.1	21.1	20.9
Return loss at	2400 MHz	dB / 100 m	20.1	20.1	22.5	22.5	22.5
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 23
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 20
Screening efficiency	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 18
	30 – 1000 MHz	dB	> 90	> 90	> 85	> 85	> 85

Construction and dimensions							
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.61	1.61	1.55	1.55	1.55	1.55
Material dielectric		Gas	Gas	Gas	Gas	Gas	Gas
		injected PE	injected PE	injected PE	injected PE	injected PE	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	Cu	Cu	Cu	Cu
Overlap foil	mm	5	5	2	2	2	2
Braiding material		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Braid coverage	%	70	70	50	50	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	PE	PVC	LSNH	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							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	120	120	100	100	100	100
Max. tensile strength	N	300	300	225	225	225	4600

Belden part number		49050	49051	49001	46365	46027	49006
Colour		BLACK GREEN	GREEN	BLACK GREEN	BLACK WHITE	GREY	BLACK
Put-up code		242 / 245	245	240 / 242 025	240 / 242 025	240 / 242	241 / 242 245 / 042
Length / reel	meter	500 / 1000	1000	250 / 500 1000	250 / 500 1000	250 / 500	250 / 330 500 / 1000
Total weight	kg / km	114	119	81	99	117	135

Coaxial Distribution Cables



	PRG11 AL				PRG11 DB+	
Product description	PRG11A AL LSNH	PRG11A AL PVC	PRG11 AL PVC	PRG11 AL PE	PRG11 DB+ PVC	PRG11 DB+ 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	Ohm / km	19.3	19.3	22.2	18.9	18.9
	Inner conductor	Ohm / km	8.7	8.7	9.4	9.4	9.4
Max. current	I _{eff.}	A	12	12	10	12	12
Attenuation at	5 MHz	dB / 100 m	0.9	0.9	0.9	0.9	0.9
	10 MHz	dB / 100 m	1.2	1.2	1.3	1.3	1.3
	50 MHz	dB / 100 m	2.8	2.8	2.9	2.9	2.9
	100 MHz	dB / 100 m	3.9	3.9	4.1	4.1	4.1
	200 MHz	dB / 100 m	5.7	5.7	5.9	5.9	5.9
	230 MHz	dB / 100 m	6.1	6.1	6.3	6.3	6.3
	300 MHz	dB / 100 m	6.9	6.9	7.3	7.3	7.3
	400 MHz	dB / 100 m	8.1	8.1	8.6	8.6	8.6
	600 MHz	dB / 100 m	9.9	9.9	10.7	10.7	10.7
	800 MHz	dB / 100 m	11.6	11.6	12.5	12.5	12.5
	860 MHz	dB / 100 m	12.0	12.0	12.9	12.9	12.9
	1000 MHz	dB / 100 m	13.0	13.0	14.2	14.2	14.2
	1350 MHz	dB / 100 m	15.0	15.0	16.8	16.8	16.8
	1750 MHz	dB / 100 m	17.2	17.2	19.5	19.5	19.5
	2150 MHz	dB / 100 m	19.0	19.0	21.9	21.9	21.9
Return loss at	2400 MHz	dB / 100 m	21.5	21.5	23.4	23.4	23.4
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 23
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 20
Screening efficiency	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 18
	30 – 1000 MHz	dB	> 85	> 85	> 85	> 100	> 100

Construction and dimensions							
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.61	1.61	1.55	1.55	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	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2	7.25 ± 0.2
Type of foil		AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL DB+	AL-PET-AL DB+
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	Annealed tinned copper
Braid coverage	%	60	60	50	50	50	50
Diameter outer conductor	mm	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	8.1 ± 0.25	8.1 ± 0.25
Sheath material		LSNH	PVC	PVC	PE	PVC	PE
Diameter sheath	m	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3	10.1 ± 0.3
Min. setting radius	mm	50	50	50	50	50	50
Max. tensile strength	N	300	300	225	225	250	250

Belden part number	46399	46118	46467	49002	43154	49054
Colour	GREY	BLACK	BLACK WHITE	BLACK	BLACK	BLACK
Put-up code	240	242	240 / 242	242	240 / 242	240 / 242
Length / reel	meter	500	250 / 500	500	250 / 500	250 / 500
Total weight	kg / km	100	98	78	81	81

Coaxial Drop Cables



	RG7			PRG7				RG6		
Product description	RG7 CU LSF	RG7 CU PE	RG7 CU HDPE	PRG7 CU PVC	PRG7 CU PE	PRG7 CU PE messenger	PRG7 AL PVC	RG6 DB+ PVC [BTQ]	RG6 DB+ PVC [BTT]	RG6 ALT PVC



Electrical performance											
Impedance	Ohm	75 ± 3	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	54 ± 2
Velocity ratio	%	82.0	82.0	82.0	83.0	83.0	83.0	83.0	82.0	82.0	82.0
DC resistance	Loop	Ohm / km	26.5	26.5	26.5	34.5	34.5	34.5	39.6	69	71
	Inner conductor	Ohm / km	14.5	14.5	14.5	15.5	15.5	15.5	15.6	55	55
Max. current	I _{eff.}	A	8	8	8	8	8	8	6	6	6
Attenuation at	5 MHz	dB / 100 m	1.1	1.1	1.1	1.1	1.1	1.2	1.7	1.7	1.7
	10 MHz	dB / 100 m	1.5	1.5	1.5	1.5	1.5	1.6	2.0	2.0	2.0
	50 MHz	dB / 100 m	3.4	3.4	3.4	3.5	3.5	3.7	4.5	4.5	4.5
	100 MHz	dB / 100 m	4.9	4.9	4.9	5.1	5.1	5.3	6.4	6.4	6.4
	200 MHz	dB / 100 m	7.0	7.0	7.0	7.3	7.3	7.6	9.1	9.1	9.1
	230 MHz	dB / 100 m	7.5	7.5	7.5	7.8	7.8	7.9	9.6	9.6	9.6
	300 MHz	dB / 100 m	8.5	8.5	8.5	8.9	8.9	9.3	11.0	11.0	11.0
	400 MHz	dB / 100 m	10.1	10.1	10.1	10.5	10.5	10.9	13.2	13.2	13.2
	600 MHz	dB / 100 m	12.5	12.5	12.5	13.0	13.0	13.6	16.4	16.4	16.4
	800 MHz	dB / 100 m	14.6	14.6	14.6	15.2	15.2	15.8	19.2	19.2	19.2
	860 MHz	dB / 100 m	15.1	15.1	15.1	15.8	15.8	16.4	19.9	19.9	19.9
	1000 MHz	dB / 100 m	16.5	16.5	16.5	17.1	17.1	17.9	21.7	21.7	21.7
	1350 MHz	dB / 100 m	19.5	19.5	19.5	20.2	20.2	21.1	25.6	25.6	25.6
	1600 MHz	dB / 100 m	21.4	21.4	21.4	22.2	22.2	23.1	28.3	28.3	28.3
	1750 MHz	dB / 100 m	22.6	22.6	22.6	23.4	23.4	24.3	29.6	29.6	29.6
Return loss at	2150 MHz	dB / 100 m	25.3	25.3	25.3	26.2	26.2	27.3	33.3	33.3	33.3
	2400 MHz	dB / 100 m	27.0	27.0	27.0	27.9	27.9	29.1	35.5	35.5	35.5
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 23	> 23	> 23	> 23	> 23
Screening efficiency	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 20	> 20	> 20	> 20	> 20
	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 18	> 18	> 18	> 18	> 18
	30 – 1000 MHz	dB	> 85	> 85	> 85	> 85	> 85	> 85	> 95	> 95	> 85

Construction and dimensions											
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Copper clad steel	Copper clad steel	Copper clad steel
Diameter conductor	mm	1.25	1.25	1.25	1.2	1.2	1.2	1.2	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
Diameter dielectric	mm	5.7 ± 0.15	5.7 ± 0.15	5.7 ± 0.15	5.4 ± 0.15	5.4 ± 0.15	5.4 ± 0.15	5.4 ± 0.15	4.57 ± 0.15	4.57 ± 0.15	4.57 ± 0.15
Type of foil		Cu	Cu	Cu	Cu	Cu	Cu	AL-PET-AL	AL-PET-AL DB+	AL-PET-AL DB+	AL-PET-AL
Overlap foil	mm	2	2	2	2	2	2	2	1	1	2
Braiding material		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	50	50	50	40	40	40	40	50	40	40
Diameter outer conductor	mm	6.3 ± 0.25	6.3 ± 0.25	6.3 ± 0.25	5.84 ± 0.25	5.84 ± 0.25	5.84 ± 0.25	5.84 ± 0.25	5.4 ± 0.2	5.4 ± 0.2	5.25 ± 0.2
Sheath material		PVC	PE	HDPE	PVC	PE	PE	PVC	PVC	PVC	PVC
Diameter sheath	mm	8.1 ± 0.3	8.1 ± 0.3	8.1 ± 0.3	7.1 ± 0.3	7.1 ± 0.3	7.1 ± 0.3	7.1 ± 0.3	6.9 ± 0.2	6.9 ± 0.2	6.9 ± 0.2
Catenary wire							Zinc plated steel wires				
Diameter catenary wire	mm						3.6 ± 0.2				
Diameter width coax + catenary	mm						14 ± 0.4				
Min. setting radius	mm	80	80	80	70	70	70	35	35	35	35
Max. tensile strength	N	90	90	90	80	80	3500	80	570	570	570

Belden part number	43093	49032	49038	46475	49309	49055	46474	46146	43029	43140
Colour	BLACK	BLACK	GREEN	BLACK GREY WHITE	BLACK	BLACK	WHITE	WHITE	WHITE	BLACK WHITE
Put-up code	241	241	241	172 / 174 011 / 240 241	011 / 240 241	025	172	179	011 / 179	172 / 179
Length / reel	meter	500	500	500	100 / 200 250 / 500 1000	1000	100	250	250 / 250	100 / 250
Total weight	kg / km	62.5	52.3	52.3	46.9	46.9	76	43.6	49.0	48.5

Coaxial Drop Cables



	H126 (RG6 type with bare copper inner conductor)							
Product description	H126 DB+ PVC [BTQ]	H126 DB+ PE [BTQ]	H126 DB+ LSNH [BTQ]	H126 DB+ PVC [BTT]	H126 BF ALT PVC	H126 BF ALT PVC	H126 ALT PVC	H126 ALT 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	54 ± 2	54 ± 2	54 ± 2	54 ± 2
Velocity ratio	%	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
DC resistance	Loop	Ohm / km	37	37	37	39	40	45	49
	Inner conductor	Ohm / km	23	23	23	23	23	23	23
Max. current	I _{eff.}	A	6	6	6	6	6	6	6
Attenuation at	5 MHz	dB / 100 m	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	10 MHz	dB / 100 m	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	50 MHz	dB / 100 m	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	100 MHz	dB / 100 m	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	200 MHz	dB / 100 m	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	230 MHz	dB / 100 m	9.6	9.6	9.6	9.6	9.6	9.6	9.6
	300 MHz	dB / 100 m	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	400 MHz	dB / 100 m	13.2	13.2	13.2	13.2	13.2	13.2	13.2
	600 MHz	dB / 100 m	16.4	16.4	16.4	16.4	16.4	16.4	16.4
	800 MHz	dB / 100 m	19.2	19.2	19.2	19.2	19.2	19.2	19.2
	860 MHz	dB / 100 m	19.9	19.9	19.9	19.9	19.9	19.9	19.9
	1000 MHz	dB / 100 m	21.7	21.7	21.7	21.7	21.7	21.7	21.7
	1350 MHz	dB / 100 m	25.6	25.6	25.6	25.6	25.6	25.6	25.6
	1600 MHz	dB / 100 m	28.3	28.3	28.3	28.3	28.3	28.3	28.3
	1750 MHz	dB / 100 m	29.6	29.6	29.6	29.6	29.6	29.6	29.6
Return loss at	2150 MHz	dB / 100 m	33.3	33.3	33.3	33.3	33.3	33.3	33.3
	2400 MHz	dB / 100 m	35.5	35.5	35.5	35.5	35.5	35.5	35.5
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 23	> 23	> 23
Screening efficiency	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 20	> 20	> 20
	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 18	> 18	> 18
	30 – 1000 MHz	dB	> 95	> 95	> 95	> 95	> 85	> 85	> 85

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		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	40	70	50	50	40
Diameter outer conductor	mm	5.4 ± 0.2	5.4 ± 0.2	5.4 ± 0.2	5.4 ± 0.2	5.25 ± 0.2	5.25 ± 0.2	5.25 ± 0.2	5.25 ± 0.2
Sheath material		PVC	PE	LSNH	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	55	55	55	55	55

Belden part number	46147	49053	43155	43030	43112	43107	43106	46081
Colour	BLACK WHITE	BLACK	WHITE	WHITE	WHITE	WHITE	BLACK WHITE	BLACK WHITE
Put-up code	172 / 179 240	240	179	011 / 179	028 / 179	028 / 179	172 / 028 179	422 / 172 011 / 179 261
Length / reel	meter	100 / 250 500	500	250	250 / 250	200 / 250	200 / 250	100 / 200 250
Total weight	kg / km	49.4	41.2	49.0	49.0	53.5	48.1	47.0

Coaxial Drop Cables



	H125 AL							
Product description	H125 DB+ PE	H125 CH PVC	H125 CH LSNH	H125 CH PE	H125 AL PVC	H125 AL PE	H125 AL LSNH	H125 AL PVC TWIN



Electrical performance									
Impedance	Ohm	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
Velocity ratio	%	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
DC resistance	Loop	Ohm / km	37	41	41	50	50	50	50
	Inner conductor	Ohm / km	23	23	23	23	23	23	23
Max. current	leff.	A	6	6	6	6	6	6	6
Attenuation at	5 MHz	dB / 100 m	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	10 MHz	dB / 100 m	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	50 MHz	dB / 100 m	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	100 MHz	dB / 100 m	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	200 MHz	dB / 100 m	8.9	8.9	8.9	8.9	8.9	8.9	8.9
	230 MHz	dB / 100 m	9.2	9.2	9.2	9.2	9.2	9.2	9.2
	300 MHz	dB / 100 m	10.9	10.9	10.9	10.9	10.9	10.9	10.9
	400 MHz	dB / 100 m	12.9	12.9	12.9	12.9	12.9	12.9	12.9
	600 MHz	dB / 100 m	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	800 MHz	dB / 100 m	18.8	18.8	18.8	18.8	18.8	18.8	18.8
	860 MHz	dB / 100 m	19.1	19.1	19.1	19.1	19.1	19.1	19.1
	1000 MHz	dB / 100 m	21.2	21.2	21.2	21.2	21.2	21.2	21.2
	1350 MHz	dB / 100 m	25.1	25.1	25.1	25.1	25.1	25.1	25.1
	1600 MHz	dB / 100 m	27.7	27.7	27.7	27.7	27.7	27.7	27.7
	1750 MHz	dB / 100 m	29.0	29.0	29.0	29.0	29.0	29.0	29.0
	2150 MHz	dB / 100 m	32.7	32.7	32.7	32.7	32.7	32.7	32.7
	2400 MHz	dB / 100 m	34.8	34.8	34.8	34.8	34.8	34.8	34.8
Return loss at	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 23	> 23	> 23
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 20	> 20	> 20
	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 18	> 18	> 18
Screening efficiency	30 – 1000 MHz	dB	> 90	> 90	> 90	> 90	> 85	> 85	> 85

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		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
Type of foil		AL-PET-AL DB+	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL
Overlap foil	mm	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	Annealed tinned copper
Braid coverage	%	50	70	70	70	40	40	40	40
Diameter outer conductor	mm	5.5 ± 0.2	5.5 ± 0.2	5.5 ± 0.2	5.5 ± 0.2	5.34 ± 0.2	5.34 ± 0.2	5.34 ± 0.2	5.34 ± 0.2
Sheath material		PE	PVC	LSNH	PE	PVC	PE	LSNH	PVC
Diameter sheath	mm	6.9 ± 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	35
Max. tensile strength	N	60	60	60	60	55	55	55	55

Belden part number		49060	46359	46123	49045	46401	49196	46428	46425
Colour		WHITE	WHITE	GREY WHITE	BLACK	BLACK BROWN GREY WHITE	BLACK	GREY	BLACK
Put-up code		172 / 179 240	172 / 011 179 / 240	172 / 240	240	172 / 178 028 / 011 179 / 240	172 / 011 240	172 / 240	240
Length / reel	meter	100 / 250 500	100 / 250 250 / 500	100 / 500	500	100 / 150 200 / 250 250 / 500	100 / 250 500	100 / 500	250
Total weight	kg / km	42	47	49	41	48	36	45	86.3

Coaxial Drop Cables



	H125 CU					H109 CU		H109 AL	
Product description	H125 CU PVC	H125 CU PE	H125 CU LSNH	H125 CU PE messenger	H125 CU PVC TWIN	H109 PVC	H109 LSNH	H109B AL PVC	H109 AL PVC



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	55 ± 3	55 ± 3	55 ± 3	55 ± 3	55 ± 3	56 ± 2	56 ± 2	56 ± 2	56 ± 2
Velocity ratio	%	81.0	81.0	81.0	81.0	81.0	80.0	80.0	80.0	80.0
DC resistance	Loop	Ohm / km	41	41	41	41	41	41	47	50
	Inner conductor	Ohm / km	23	23	23	23	23	23	23	23
Max. current	I _{eff.}	A	7.4	7.4	7.4	7.4	6	6	5	5
Attenuation at	5 MHz	dB / 100 m	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4
	10 MHz	dB / 100 m	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.2
	50 MHz	dB / 100 m	4.2	4.2	4.2	4.2	4.2	4.2	4.4	4.4
	100 MHz	dB / 100 m	6.0	6.0	6.0	6.0	6.0	6.0	6.2	6.2
	200 MHz	dB / 100 m	8.6	8.6	8.6	8.6	8.6	8.6	8.9	8.9
	230 MHz	dB / 100 m	9.1	9.1	9.1	9.1	9.1	9.1	9.2	9.2
	300 MHz	dB / 100 m	10.5	10.5	10.5	10.5	10.5	10.5	10.9	10.9
	400 MHz	dB / 100 m	12.4	12.4	12.4	12.4	12.4	12.4	12.9	12.9
	600 MHz	dB / 100 m	15.4	15.4	15.4	15.4	15.4	15.4	16.0	16.0
	800 MHz	dB / 100 m	18.0	18.0	18.0	18.0	18.0	18.0	18.8	18.8
	860 MHz	dB / 100 m	18.3	18.3	18.3	18.3	18.3	18.3	19.1	19.1
	1000 MHz	dB / 100 m	20.4	20.4	20.4	20.4	20.4	20.4	21.2	21.2
	1350 MHz	dB / 100 m	24.1	24.1	24.1	24.1	24.1	24.1	25.1	25.1
	1600 MHz	dB / 100 m	26.7	26.7	26.7	26.7	26.7	26.7	27.7	27.7
	1750 MHz	dB / 100 m	27.9	27.9	27.9	27.9	27.9	27.9	29.0	29.0
	2150 MHz	dB / 100 m	31.4	31.4	31.4	31.4	31.4	31.4	32.7	32.7
Return loss at	2400 MHz	dB / 100 m	33.5	33.5	33.5	33.5	33.5	33.5	34.8	34.8
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 23	> 23	> 23	> 23
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 20	> 20	> 20	> 20
Screening efficiency	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 18	> 18	> 18	> 18
	30 – 1000 MHz	dB	> 85	> 85	> 85	> 85	> 75	> 75	> 85	> 85

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	1.0	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	5 Cell PE	5 Cell PE	5 Cell PE	5 Cell PE
Diameter dielectric	mm	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.8 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15	4.7 ± 0.15
Type of foil		Cu	Cu	Cu	Cu	Cu	Cu	Cu	AL-PET-AL	AL-PET-AL
Overlap foil	mm	2	2	2	2	2	2	2	2	2
Braiding material		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	40	40	40	40	40	55	55	65	40
Diameter outer conductor	mm	5.24 ± 0.2	5.24 ± 0.2	5.24 ± 0.2	5.24 ± 0.2	5.24 ± 0.2	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20	5.2 ± 0.20
Sheath material		PVC	PE	LSNH	PE	PVC	PVC	LSNH	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	6.65 ± 0.2	6.65 ± 0.2	6.33 ± 0.2	6.33 ± 0.2
Catenary wire					Zinc plated steel wires					
Diameter catenary wire	mm				4.4 ± 0.4					
Diameter width coax + catenary	mm				12 ± 0.4					
Min. setting radius	mm	70	70	70	35	70	70	70	35	35
Max. tensile strength	N	55	55	55	3500	55	55	55	55	55

Belden part number	46014	49004	46117	49057	43087	46580	46981	46366	46462
Colour	BLACK BROWN CREAM GREY WHITE	BLACK	GREY	BLACK	WHITE	BLACK BROWN WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE
Put-up code	422 / 172 028 / 011 240 / 241	172 / 011 240	240	241	240	011 106 / 240	240	172 / 028 179	172 / 028
Length / reel	meter	91.4 / 100 200 / 250 500 / 1000	100 / 250 500	500	250	250 250 / 500	500	100 / 250 250	100 / 250
Total weight	kg / km	46	39	45.6	75	92	49.4	47	43

Coaxial Drop Cables



	H124	H121					
Product description	H124 AL PVC	H121B AL PVC	H121B AL LSNH	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	75 ± 3
Capacitance	pF / m	53 ± 3	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	84.0
DC resistance	Loop	Ohm / km	58	55	55	75	75	59
	Inner conductor	Ohm / km	23	35	35	35	35	35
Max. current	leff.	A	5	4.4	4.4	4.4	4.4	5.6
Attenuation at	5 MHz	dB / 100 m	2.0	1.7	1.7	1.7	1.7	1.7
	10 MHz	dB / 100 m	2.8	3.0	3.0	3.0	3.0	2.4
	50 MHz	dB / 100 m	4.5	5.6	5.6	5.6	5.6	5.3
	100 MHz	dB / 100 m	6.4	7.9	7.9	7.9	7.9	7.6
	200 MHz	dB / 100 m	9.2	11.3	11.3	11.3	11.3	10.8
	230 MHz	dB / 100 m	9.8	12.3	12.3	12.3	12.3	11.6
	300 MHz	dB / 100 m	11.5	14.2	14.2	14.2	14.2	13.3
	400 MHz	dB / 100 m	13.3	16.2	16.2	16.2	16.2	15.4
	600 MHz	dB / 100 m	16.5	20.0	20.0	20.4	20.4	19.1
	800 MHz	dB / 100 m	19.3	23.2	23.2	23.2	23.2	22.2
	860 MHz	dB / 100 m	20.0	24.7	24.7	24.7	24.7	23.1
	1000 MHz	dB / 100 m	21.8	26.1	26.1	26.1	26.1	25.0
	1350 MHz	dB / 100 m	25.7	30.7	30.7	30.7	30.7	29.4
	1600 MHz	dB / 100 m	28.4	33.6	33.6	33.6	33.6	32.2
Return loss at	1750 MHz	dB / 100 m	29.7	35.3	35.3	35.3	35.3	33.8
	2150 MHz	dB / 100 m	33.4	39.4	39.4	39.4	39.4	37.8
	2400 MHz	dB / 100 m	35.6	41.9	41.9	41.9	41.9	40.1
Screening efficiency	5 – 470 MHz	dB	> 23	> 20	> 20	> 20	> 20	> 20
	470 – 862 MHz	dB	> 20	> 18	> 18	> 18	> 18	> 18
	862 – 2150 MHz	dB	> 18	> 16	> 16	> 16	> 16	> 16
	30 – 1000 MHz	dB	> 75	> 85	> 85	> 85	> 85	> 85

Construction and dimensions								
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.0	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	Gas injected PE
Diameter dielectric	mm	4.4 ± 0.15	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	AL-PET-AL	Cu
Overlap foil	mm	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	Bare copper
Braid coverage	%	40	75	75	45	45	45	45
Diameter outer conductor	mm	5.1 ± 0.2	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		PVC	PVC	LSNH	PVC	PE	PVC	PVC
Diameter sheath	mm	5.9 ± 0.2	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	30	25	25	25	25	25	50
Max. tensile strength	N	55	45	45	40	40	80	40

Belden part number	46489	46150	43179	46978	49302	46596	46471
Colour	WHITE	WHITE	WHITE	BLACK WHITE	BLACK	WHITE	WHITE
Put-up code	172 / 179 011 / 241 042	172 / 178 011	172 / 178 011	172 / 028 178 / 011	011	151 / 011	172 / 011
Length / reel	meter	100 / 250 500 / 1000 5000	100 / 300 500	100 / 300 500	500	100 / 250	100 / 500
Total weight	kg / km	32	29.7	29.7	26.8	20.7	26.7

Coaxial Drop Cables



	COAX 12			H114		H123		
Product description	COAX 12 PVC	COAX 12 PE	COAX 12 PE messenger	H114B PVC	H114A PVC	H123B AL PVC	H123B AL LSNH	H123 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	67 ± 2	67 ± 2	67 ± 2	67 ± 2	67 ± 2	54 ± 2	54 ± 2	54 ± 2
Velocity ratio	%	66.0	66.0	66.0	66.0	66.0	84.0	84.0	84.0
DC resistance	Loop	Ohm / km	61	61	61	228	237	72	92
	Inner conductor	Ohm / km	45	45	45	210	210	55	55
Max. current	leff.	A	7.1	7.1	7.1	4.1	4.1	4.2	4.2
Attenuation at	5 MHz	dB / 100 m	1.8	1.8	1.8	1.8	1.8	2.7	2.7
	10 MHz	dB / 100 m	2.5	2.5	2.5	2.9	2.9	4.0	4.0
	50 MHz	dB / 100 m	5.7	5.7	5.7	5.8	5.8	7.5	7.5
	100 MHz	dB / 100 m	8.2	8.2	8.2	8.2	8.2	10.0	10.0
	200 MHz	dB / 100 m	11.4	11.4	11.4	11.8	11.8	13.8	13.8
	230 MHz	dB / 100 m	12.2	12.2	12.2	12.6	12.6	14.9	14.9
	300 MHz	dB / 100 m	14.1	14.1	14.1	14.5	14.5	17.2	17.2
	400 MHz	dB / 100 m	16.9	16.9	16.9	16.9	16.9	19.9	19.9
	600 MHz	dB / 100 m	21.0	21.0	21.0	20.9	20.9	24.8	24.8
	800 MHz	dB / 100 m	24.5	24.5	24.5	24.5	24.5	29.0	29.0
	860 MHz	dB / 100 m	25.5	25.5	25.5	25.7	25.7	30.0	30.0
	1000 MHz	dB / 100 m	27.7	27.7	27.7	27.9	27.9	32.5	32.5
	1350 MHz	dB / 100 m	32.7	32.7	32.7	32.9	32.9	37.3	37.3
	1600 MHz	dB / 100 m	36.0	36.0	36.0	36.2	36.2	40.0	40.0
	1750 MHz	dB / 100 m	37.8	37.8	37.8	38.1	38.1	42.2	42.2
	2150 MHz	dB / 100 m	42.5	42.5	42.5	42.8	42.8	47.0	47.0
	2400 MHz	dB / 100 m	45.2	45.2	45.2	45.5	45.5	50.5	50.5
Return loss at	5 – 470 MHz	dB	> 20	> 20	> 20	> 20	> 20	> 20	> 20
	470 – 862 MHz	dB	> 18	> 18	> 18	> 18	> 18	> 18	> 18
	862 – 2150 MHz	dB	> 16	> 16	> 16	> 16	> 16	> 16	> 16
Screening efficiency	30 – 1000 MHz	dB	> 85	> 85	> 85	> 85	> 75	> 85	> 80

Construction and dimensions									
Material conductor		Bare copper	Bare copper	Bare copper	Copper clad steel	Copper clad steel	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	0.71	0.71	0.71	0.72	0.72	0.65	0.65	0.65
Material dielectric		Solid PE	Solid PE	Solid PE	Solid PE	Solid PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	4.6 ± 0.15	4.6 ± 0.15	4.6 ± 0.15	4.75 ± 0.15	4.75 ± 0.15	2.9 ± 0.15	2.9 ± 0.15	2.9 ± 0.15
Type of foil		Cu	Cu	Cu	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL	AL-PET-AL
Overlap foil	mm	2	2	2	2	2	2	2	2
Braiding material		Bare copper	Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	60	60	60	65	35	90	90	45
Diameter outer conductor	mm	5.25 ± 0.2	5.25 ± 0.2	5.25 ± 0.2	5.45 ± 0.2	5.45 ± 0.2	3.4 ± 0.15	3.4 ± 0.15	3.4 ± 0.15
Sheath material		PVC	PE	PE	PVC	PVC	PVC	LSNH	PVC
Diameter sheath	mm	6.8 ± 0.2	7.1 ± 0.2	7.1 ± 0.2	6.8 ± 0.2	6.8 ± 0.2	4.3 ± 0.2	4.3 ± 0.2	4.15 ± 0.2
Catenary wire				Zinc plated steel wires					
Diameter catenary wire	mm			4.8 ± 0.2					
Diameter width coax + catenary	mm			13.8 ± 0.4					
Min. setting radius	mm	70	70	70	35	35	25	25	25
Max. tensile strength	N	35	35	3500	125	125	33	33	30

Belden part number	43158	49084	49014	46485	46103	46158	43091	46479
Colour	BLACK GREY WHITE	BLACK GREEN	BLACK	WHITE	GREY WHITE	WHITE	GREEN WHITE	BLACK BLUE GREEN RED WHITE
Put-up code	174 / 240 241	174 / 241 242	025	172 / 011 240	172 / 040 240	172 / 028	028	172 / 178 028 / 042
Length / reel	meter	200 / 500 1000	200 / 1000 1000	1000	100 / 250 500	100 / 100 500	100 / 500	500
Total weight	kg / km	54.1	49.9	80.7	52.4	46.6	28.7	29

Composite Cables



	Distribution	DROP			
Product description	PRG11 CU DATADROP PE	PRG7 CU DATADROP PE	H125 CU DATADROP PVC	H125 AL DATADROP PVC	RG6 DB+ UNIDROP PVC



Electrical performance		coax				
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3
Capacitance	pF / m	55 ± 2	54 ± 2	55 ± 3	55 ± 3	54 ± 2
Velocity ratio	%	81.0	83.0	81.0	84.0	82.0
DC resistance	Loop	Ohm / km	20	34.5	41	50
	Inner conductor	Ohm / km	9.4	15.5	23	23
Max. current	leff.	A	12.0	8.0	7.4	6.0
Attenuation at	5 MHz	dB / 100 m	0.9	1.1	1.3	1.4
	10 MHz	dB / 100 m	1.2	1.5	1.8	2.0
	50 MHz	dB / 100 m	2.7	3.5	4.2	4.8
	100 MHz	dB / 100 m	3.9	5.1	6.0	6.6
	200 MHz	dB / 100 m	5.7	7.3	8.6	9.3
	230 MHz	dB / 100 m	6.1	7.8	9.1	9.6
	300 MHz	dB / 100 m	6.9	8.9	10.5	11.0
	400 MHz	dB / 100 m	8.2	10.5	12.4	13.4
	600 MHz	dB / 100 m	10.2	13.0	15.4	16.7
	800 MHz	dB / 100 m	12.0	15.2	18.0	19.5
	860 MHz	dB / 100 m	12.5	15.8	18.3	20.2
	1000 MHz	dB / 100 m	13.6	17.1	20.4	22.0
	1350 MHz	dB / 100 m	16.1	20.2	24.1	26.0
	1600 MHz	dB / 100 m	17.9	22.2	26.7	27.7
	1750 MHz	dB / 100 m	18.7	23.4	27.9	29.0
Return loss at	2150 MHz	dB / 100 m	21.1	26.2	31.4	33
	2400 MHz	dB / 100 m	22.5	27.9	33.5	35
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20
Screening efficiency	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18
	30 – 1000 MHz	dB	> 85	> 85	> 85	> 95

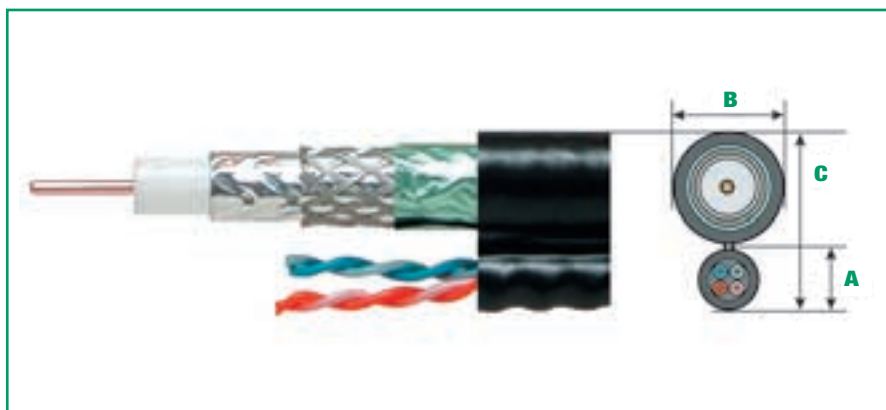
Construction and dimensions						
Material conductor		Bare copper	Bare copper	Bare copper	Bare copper	Bare copper
Diameter conductor	mm	1.55	1.2	1.0	1.0	1.0
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE
Diameter dielectric	mm	7.25 ± 0.2	5.4 ± 0.15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

Belden part number	49041	49046	46005	46074	43089
Colour	BLACK	BLACK	BLACK WHITE	WHITE	BLACK WHITE
Reel type	241	242	241	241	241
Length / reel	meter	500	500	500	500
Total weight	kg / km	96	61	63.2	63

UTP Information



UTP			
Product description		2 UTP	
Electrical performance		pair	
Impedance	Ohm	100 ± 15	
Capacitance	pF / m	49 ± 5	
Velocity ratio	%	67	
DC resistance	Loop	Ohm / km	94
	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	100 MHz	dB / 100 m	22.0
	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	



Coaxial Connection Cables



	Connection						
Product description	H105 PVC	H106 PVC	H106 LSNH	RG59 PVC	H12A PVC	H12 PVC	H110 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	55 ± 2	67 ± 2	59 ± 2
Velocity ratio	%	66.0	66.0	66.0	66.0	80.0	66.0	78.0
DC resistance	Loop	Ohm / km	56.0	93.5	93.5	173.0	65.0	132.0
	Inner conductor	Ohm / km	45.0	75.0	75.0	158.0	53.0	80.0
Attenuation at	5 MHz	dB / 100 m	2.2	2.6	2.6	2.9	2.4	3.0
	10 MHz	dB / 100 m	2.9	3.5	3.5	4.0	3.4	4.8
	50 MHz	dB / 100 m	6.6	8.0	8.0	8.0	7.5	10.7
	100 MHz	dB / 100 m	9.5	11.6	11.6	11.6	10.7	14.2
	200 MHz	dB / 100 m	13.7	17.0	17.0	17.0	15.2	20.4
	230 MHz	dB / 100 m	14.7	18.3	18.3	18.3	16.3	21.9
	300 MHz	dB / 100 m	16.8	21.2	21.2	21.2	18.8	25.4
	400 MHz	dB / 100 m	19.4	24.5	24.5	24.5	21.8	29.3
	600 MHz	dB / 100 m	24.3	31.1	31.1	31.1	26.9	36.0
	800 MHz	dB / 100 m	29.1	37.8	37.8	37.8	31.3	42.1
	860 MHz	dB / 100 m	30.1	39.2	39.2	39.2	32.5	43.7
	1000 MHz	dB / 100 m	32.8	42.9	42.9	42.9	35.2	
	1350 MHz	dB / 100 m	32.8	50.0	50.0	50.0		
	1600 MHz	dB / 100 m	41.5	54.5	54.5	54.5		
	1750 MHz	dB / 100 m	43.4	57.0	57.0	57.0		
	2150 MHz	dB / 100 m	48.1	63.0	63.0	63.0		
Return loss at	5 – 470 MHz	dB	> 20	> 20	> 20	> 20	> 30	> 20
	470 – 862 MHz	dB	> 18	> 18	> 18	> 18	> 25	> 18
	862 – 2150 MHz	dB	> 16	> 16	> 16	> 16	> 25	
Screening efficiency	30 – 1000 MHz	dB	> 75	> 75	> 75	> 65	> 50	

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	0.8	0.6	0.6
Construction	n x mm					12 x 0.193	7 x 0.2	7 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	3.5 ± 0.15	3.5 ± 0.15	2.5 ± 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	91	91	52
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	4.1 ± 0.2	4.1 ± 0.2	2.85 ± 0.2
Sheath material		PVC	PVC	LSNH	PVC	PVC	PVC	PVC
Diameter sheath	mm	7.2 ± 0.3	6.0 ± 0.3	6.0 ± 0.3	6.15 ± 0.3	5.6 ± 0.2	5.6 ± 0.2	4.15 ± 0.2
Min. setting radius	mm	35	30	30	30	25	25	25

Belden part number	46036	43101	43102	46100	43346	43340	43654
Colour	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
Put-up code	172 / 174 240	172 / 011	172 / 011	172 / 173 011 / 241	172 / 173 011	172 / 173 011	241
Length / reel	meter	100 / 200 500	100 / 500	100 / 200 500 / 1000	100 / 200 500	100 / 200 500	2500
Total weight	kg / km	80	57	58	53	41.6	18.2

Coaxial 50 Ohm Cables



	50 OHM					
Product description	H1000B PE	H1000 PVC	H1000 PE	H1001 PE	H500 PE	RG213 PVC



Electrical performance							
Impedance	Ohm	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Capacitance	pF / m	80 ± 2	80 ± 2	80 ± 2	80 ± 2	82 ± 2	100 ± 2
Velocity ratio	%	83.0	83.0	83.0	83.0	81.0	66.0
DC resistance	Loop	Ohm / km	8.0	12.3	12.3	16.5	14.2
	Inner conductor	Ohm / km	3.5	3.5	3.5	4.5	6
Attenuation at	5 MHz	dB / 100 m	0.8	0.8	0.8	1.0	1.6
	10 MHz	dB / 100 m	1.2	1.2	1.2	1.5	2.0
	50 MHz	dB / 100 m	2.8	2.8	2.8	3.3	4.6
	100 MHz	dB / 100 m	4.0	4.0	4.0	4.7	6.6
	200 MHz	dB / 100 m	5.7	5.7	5.7	6.7	9.5
	230 MHz	dB / 100 m	6.1	6.1	6.1	7.2	10.1
	300 MHz	dB / 100 m	7.0	7.0	7.0	9.8	11.6
	400 MHz	dB / 100 m	8.4	8.4	8.4	10.6	13.8
	600 MHz	dB / 100 m	10.4	10.4	10.4	12.2	17.0
	800 MHz	dB / 100 m	12.3	12.3	12.3	14.4	20.0
	860 MHz	dB / 100 m	13.8	13.8	13.8	14.9	20.7
	1000 MHz	dB / 100 m	14.0	14.0	14.0	16.2	22.6
	1350 MHz	dB / 100 m	16.7	16.7	16.7	19.3	26.8
	1600 MHz	dB / 100 m	18.7	18.7	18.7	21.4	29.7
	1750 MHz	dB / 100 m	19.5	19.5	19.5	22.4	31.1
	2150 MHz	dB / 100 m	22.5	22.5	22.5	25.3	35.1
Power rating at 40 °C	2400 MHz	dB / 100 m	23.6	23.6	23.6	27.1	37.1
	7 MHz	Watt	4500	3200	3200	2600	3700
	14 MHz	Watt	3200	2200	2200	1850	2600
	21 MHz	Watt	2600	1840	1840	1500	2100
	28 MHz	Watt	2200	1590	1590	1300	1800
	50 MHz	Watt	1700	1180	1180	970	1350
	100 MHz	Watt	1200	820	820	680	950
	144 MHz	Watt	1000	680	680	560	780
	432 MHz	Watt	600	370	370	310	440
	800 MHz	Watt	400	265	265	230	320
Return loss at	900 MHz	Watt	400	250	250	210	290
	1296 MHz	Watt	300	200	200	170	240
	2320 MHz	Watt	200	145	145	125	170
	5000 MHz	Watt	200	90	90	80	110
	10000 MHz	Watt	100	55	55	50	70
	5 – 470 MHz	dB	> 23	> 23	> 23	> 23	> 20
	470 – 862 MHz	dB	> 20	> 20	> 20	> 20	> 18
	862 – 2150 MHz	dB	> 18	> 18	> 18	> 18	> 16
	Screening efficiency	30 – 1000 MHz	dB	> 100	> 100	> 100	> 95
							> 65

Construction and dimensions							
Material conductor		Bare copper	Bare copper	Bare copper	Stranded soft annealed copper	Bare copper	Stranded soft annealed copper
Diameter conductor	mm	2.62	2.62	2.62	2.7	2.5	2.25
Construction	n x mm				19 x 0.54		7 x 0.75
Material dielectric		Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Gas injected PE	Solid PE
Diameter dielectric	mm	7.15 ± 0.2	7.15 ± 0.2	7.15 ± 0.2	7.15 ± 0.2	7.0 ± 0.2	7.25 ± 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	%	85	49	49	49	50	92
Diameter outer conductor	mm	8.0 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	7.9 ± 0.25	7.45 ± 0.2	7.8 ± 0.25
Sheath material		PE	PVC	PE	PE	PE	PVC
Diameter sheath	mm	10.3 ± 0.3	10.3 ± 0.3	10.3 ± 0.3	10.3 ± 0.3	9.8 ± 0.2	10.3 ± 0.3
Min. setting radius	mm	50	100	100	100	75	50

Belden part number	49056	46531	49025	49205	49305	43673
Colour	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
Reel type	242	151 / 240 242 / 245	242	242	151 / 153 240 / 242 042	151 / 153 240 / 242 245
Length / reel	meter	500	100 / 250 500 / 1000	500	100 / 200 250 / 500 2000	100 / 200 250 / 500 1000
Total weight	kg / km	155	141	120	109	107

Coaxial 50 Ohm Cables



	50 OHM					
Product description	RAC0 25 PVC radiating	H1000R PVC radiating	H155 PVC	H155 PE	RG58 PVC	RG58 PVC TWIN



Electrical performance							
Impedance	Ohm	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Capacitance	pF / m	100 ± 2	80 ± 2	82 ± 2	82 ± 2	100 ± 2	100 ± 2
Velocity ratio	%	66.0	83.0	81.0	81.0	66.0	66.0
DC resistance	Loop	56.3	38.5	32	32	51	51
	Inner conductor	6	3.5	15	15	36	36
Attenuation at	5 MHz	3.1	1.6	2.3	2.3	3.7	3.7
	10 MHz	3.3	2.0	3.0	3.0	4.7	4.7
	50 MHz	7.4	4.5	6.5	6.5	10.6	10.6
	100 MHz	10.4	6.3	9.3	9.3	15.1	15.1
	200 MHz	15.0	9.0	13.2	13.2	21.4	21.4
	230 MHz	15.9	9.6	14.2	14.2	23.0	23.0
	300 MHz	18.9	11.4	16.3	16.3	26.5	26.5
	400 MHz	21.4	13.0	19.0	19.0	29.7	29.7
	600 MHz	26.0	15.9	23.0	23.0	37.9	37.9
	800 MHz	30.4	18.7	26.5	26.5	44.2	44.2
	860 MHz	31.3	19.4	27.5	27.5	45.8	45.8
	1000 MHz	36.3	22.5	30.9	30.9	49.6	49.6
	1350 MHz			35.9	35.9	58.2	58.2
	1600 MHz			40.5	40.5	63.9	63.9
	1750 MHz			42.3	42.3	66.8	66.8
	2150 MHz			46.9	46.9	74.6	74.6
	2400 MHz			49.6	49.6	78.9	78.9
Power rating at 40 °C	7 MHz			950	950	940	940
	14 MHz			670	670	660	660
	21 MHz			550	550	540	540
	28 MHz			470	470	470	470
	50 MHz			350	350	350	350
	100 MHz			250	250	250	250
	144 MHz			210	210	210	210
	432 MHz			120	120	120	120
	800 MHz			85	85	85	85
	900 MHz			80	80	80	80
Return loss at	1296 MHz			65	65	65	65
	2320 MHz			50	50	50	50
	5000 MHz			30	30	30	30
	10000 MHz			20	20	20	20
	5 – 470 MHz			> 23	> 23	> 20	> 20
	470 – 862 MHz			> 20	> 20	> 18	> 18
	862 – 2150 MHz			> 18	> 18	> 16	> 16
	30 – 1000 MHz			> 85	> 85	> 65	> 65
Screening efficiency							

Construction and dimensions							
Material conductor		Stranded soft annealed copper	Bare copper	Stranded soft annealed copper	Stranded soft annealed copper	Stranded soft annealed tinned copper	Stranded soft annealed tinned copper
Diameter conductor	mm	2.25	2.62	1.41	1.41	0.91	0.91
Construction	n x mm	7 x 0.75		19 x 0.28	19 x 0.28	19 x 0.18	19 x 0.18
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 ± 0.02	3.9 ± 0.15	3.9 ± 0.15	2.95 ± 0.15	2.95 ± 0.15
Type of foil				AL-PET-AL	AL-PET-AL		
Overlap foil	mm			2			
Braiding material		Bare copper	Bare copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper	Annealed tinned copper
Braid coverage	%	25	25	80	80	93	93
Diameter outer conductor	mm	7.8 ± 0.25	7.7 ± 0.25	4.5 ± 0.2	4.5 ± 0.2	3.5 ± 0.15	3.5 ± 0.15
Sheath material		PVC	PVC	PVC	PE	PVC	PVC
Diameter sheath	mm	10.3 ± 0.3	10.3 ± 0.3	5.4 ± 0.2	5.4 ± 0.2	4.95 ± 0.2	4.95 ± 0.2
Min. setting radius	mm	100	100	35	35	50	50

Belden part number	43643	43646	46220	49225	43633	46289
Colour	GREY YELLOW	BLACK	GREY	BLACK	BLACK	BLACK
Reel type	014	242	172 / 028 011 / 240	172 / 240	172 / 011	241
Length / reel	500	500	100 / 250 500 / 1000	100 / 1000	100 / 500	500
Total weight	117	137	38.3	38.3	35	74.6

Put-up File



Put-up code	Put-up description	Number of reels / pallet	Pallet dimensions L x W x H mm
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	
151	RING 100M	on request	
152	RING 150M	on request	
153	RING 200M	on request	
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
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	24	1200 x 1000 x 1900
241	Non returnable reel 560 / 250 / 320	6	1200 x 1000 x 1900
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



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