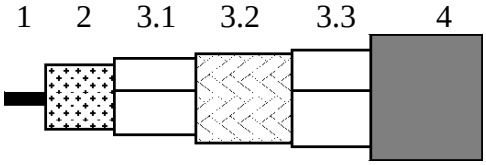
APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1 and EN50117-2-4 operating at frequencies between 5 and 3000 MHz.

CONSTRUCTION



1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	AL-PET-AL bonded to dielectric
3.2	Braid	Annealed tinned copper
3.3	Foil	AL-PET (L-folded) bonded to sheath
4	Sheath	PVC according the European Standard HD 624.

REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

Mechanical characteristics

1. Inner conductor.	
Diameter:	1.00 mm ± 0.03 mm
2. Dielectric:	
Diameter:	4.8 mm ± 0.15 mm
Adhesion:	7.8 – 78 N at 25 mm
3. Outer conductor:	
Maximum diameter over inner foil	5.1 mm
Diameter screen:	5.5 mm ± 0.2 mm
Foil overlap:	≥ 2 mm
Coverage braid:	63 % ± 5 %
4. Sheath:	
Diameter:	6.8 mm ± 0.2 mm
5. Cable:	
Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-40°C to +70°C
Minimum installation temperature:	-5 °C
Maximum tensile strength of cable:	55 N
Minimum static bend radius:	35 mm

Electrical characteristics

Mean characteristic impedance:		75 ± 3 Ω
Regularity of impedance:		> 40 dB
DC loop resistance:		≤ 37 Ω/km TBD
DC resistance inner conductor:		≤ 23 Ω/km
DC resistance outer conductor:		≤ 14 Ω/km TBD
Capacitance:		55 pF/m ± 2 pF/m
Velocity ratio:		0.81 ± 0.02
Insulation resistance:		> 10^4 MΩ.km
Voltage test of dielectric:		2 kVdc
Screening efficiency		Class A+
	30-1000 MHz:	≥ 95 dB
	1000-2000 MHz:	≥ 85 dB
	2000-3000 MHz:	≥ 75 dB
Transfer impedance:		Class A+
	5-30 MHz:	≤ 2.5 mΩ/m
Return loss at	5-30 MHz:	≥ 27 dB
	30-470 MHz:	≥ 23 dB
	470-1000 MHz:	≥ 20 dB
	1000-2000 MHz:	≥ 18 dB
	2000-3000 MHz:	≥ 16 dB

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.8 dB/100m	800 MHz:	18.6 dB/100m
50 MHz:	4.7 dB/100m	862 MHz:	19.3 dB/100m
100 MHz:	6.5 dB/100m	1000 MHz:	20.9 dB/100m
200 MHz:	9.1 dB/100m	1350 MHz:	24.6 dB/100m
230 MHz:	9.8 dB/100m	1750 MHz:	28.4 dB/100m
400 MHz:	12.9 dB/100m	2400 MHz:	34.0 dB/100m
600 MHz:	16.0 dB/100m	3000 MHz:	38.6 dB/100m

Maximum attenuation is 10% higher.

Guarantee: 5 years according to the “Guarantee Conditions” as stated in appendix A

Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

Appendix A: Guarantee Conditions

Belden Wire & Cable B.V., Edisonstraat 9, 5928 PG, Venlo, the Netherlands ("Belden") grants the following

Guarantee Conditions

Belden hereby guarantees to end users that have purchased Belden H125D00 (the "Belden Products"), that these Belden Products will be free from manufacturing and/or material defects during a period of 5 years ("limited time warranty").

Claims under this guarantee only exist if

- the Belden Product is used and installed properly and as intended,
- the Belden Product has no damage and shows no signs of wear caused by improper or unintended use, installation or resulting from use in breach of product and application specifications (according to the user manual, data sheet, etc.) or from improper installation or commissioning (i.e. not in accordance with the instructions delivered with the Belden Product),
- the Belden Product has not been repaired or altered by persons not authorized by Belden, or
- the defects or damage to the Belden Product were caused by an act attributable to Belden and therefore not caused by inter alia product abuse, accidents or natural disasters.

The guarantee does not apply in the event the defect or damage is caused by deliberate intent or wilful recklessness of the end user.

This guarantee is given solely to- and valid for the end user that received this guarantee letter directly from Belden and cannot be transferred to a third party.

Reliance on this guarantee is contingent upon the end user informing Belden of the defect or damage to the Belden Product within 30 days of obtaining knowledge thereof as well as prior to the expiry of this guarantee. Furthermore, the end user must prove the payment of the purchase price as well as the date of the purchase of the Belden Product to Belden by sending copies of the invoice, and allow Belden access to the place of installation before sending the product for the purpose of an error analysis.

In case of a defect or damage covered by these guarantee conditions, Belden will, at its sole option, either repair or replace the Belden Product concerned or refund the purchase price.

Belden will pay the costs for shipping and returning the Belden Product. If, however, the local customer service centre names a specific carrier to be used by end user to ship the Belden Product, and the end user uses a different carrier, Belden will not be liable for the costs for shipping the Belden Product. No other costs will be reimbursed by Belden.

Belden assumes no liability beyond this guarantee. More specifically, beyond this guarantee Belden does not warrant the suitability of the product for use or for a particular purpose. Damage claims, including liability for consequential loss such as lost profits, are excluded and not covered by this guarantee or otherwise. Any seller's warranty pursuant to the provisions of an applicable purchase contract or applicable general terms and conditions shall not be affected by this guarantee.

kabel keur
NLkabel Goedgekeurd

Certificaat

NLkabel goedgekeurd

Bij dezen verklaart NLkabel dat aan

Belden Wire & Cable B.V.

te Venlo

toestemming is verleend voor het voeren van Kabelkeur op:

H125D00 coax installatie kabel

Dit certificaat is geldig tot 19 oktober 2019

Aan de door NLKabel vastgestelde eisen
PVE Keurmerk Active and Passive in-house
materials versie 4.0 is voldaan.

's Gravenhage, 30 november 2016
NLkabel B.V.

Mathieu Andriessen
Algemeen Directeur NLkabel

Projectnummer 10270
Certificaatnummer 137016
Reproductie van dit certificaat is alleen in zijn geheel toegestaan.