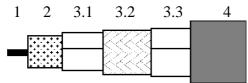


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APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN50117-2-1 and EN50117-2-4 operating at frequencies between 5 MHz 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. Black is UV stable.

REQUIREMENTS AND TEST METHODS

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

Mechanical characteristics

1. Inner conductor.

Diameter: $1.10 \text{ mm} \pm 0.05 \text{ mm}$

2. Dielectric:

Diameter: $4.8 \text{ mm} \pm 0.15 \text{ mm}$ Adhesion: 7.8 - 78 N at 25 mm

3. Outer conductor:

Maximum diameter over inner foil 5.1 mm

Diameter screen: $5.6 \text{ mm} \pm 0.2 \text{ mm}$

Foil overlap: $\geq 2 \text{ mm}$ Coverage braid: $70 \% \pm 5 \%$

4. Sheath:

Diameter: $7.1 \text{ mm} \pm 0.2 \text{ mm}$ Tensile strength: $\geq 12.5 \text{ N/mm}^2$ Elongation at break: $\geq 150 \%$

5. Cable:

Crush resistance of cable: < 1% (load of 700N) Storage/operating temperature: -40°C to +70°C

Minimum installation temperature: -5 °C



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Electrical characteristics

Return loss at

Mean characteristic impedance: $75 \pm 3 \Omega$ Regularity of impedance: > 40 dB

DC loop resistance $\leq 33 \ \Omega/km \ TBD$ DC resistance inner conductor: $\leq 19 \ \Omega/km$ DC resistance outer conductor: $\leq 14 \ \Omega/km \ TBD$ Capacitance: $51 \ pF/m \pm 2 \ pF/m$

Velocity ratio: 0.87 ± 0.02 Insulation resistance: $> 10^4$ MΩ.km

Voltage test of dielectric: 2 kVdc Screening efficiency Class A+

> 30-1000 MHz: $\geq 95 \text{ dB}$ 1000-2000 MHz: $\geq 85 \text{ dB}$ 2000-3000 MHz: $\geq 75 \text{ dB}$

Transfer impedance: Class A

5-15 MHz: $\leq 5.0 \text{ m}\Omega/\text{m}$ 15-30 MHz: $\leq 2.5 \text{ m}\Omega/\text{m}$ 5-30 MHz: $\geq 27 \text{ dB}$

30-470 MHz: $\geq 27 \text{ dB}$ 470-1000 MHz: $\geq 24 \text{ dB}$ 1000-2000 MHz: $\geq 18 \text{ dB}$ 2000-3000 MHz: $\geq 16 \text{ dB}$

Attenuation at Nominal Attenuation at Nominal 5 MHz: 1.5 dB/100m 1000 MHz: 19.4 dB/100m 50 MHz: 4.0 dB/100m 1350 MHz: 23.0 dB/100m 100 MHz: 5.7 dB/100m 27.0 dB/100m 1750 MHz: 200 MHz: $8.2 \, dB/100m$ 2000 MHz: 28.7 dB/100m 11.8 dB/100m 30.0 dB/100m 400 MHz: 2150 MHz: 14.7 dB/100m 2400 MHz: 32.0 dB/100m 600 MHz: 800 MHz: 17.2 dB/100m 3000 MHz: 36.0 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.



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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.



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Certificaat

NLkabel goedgekeurd

te	Venlo	
	Belden Wire & Cable B.V.	
Bij	j dezen verklaart NLkabel dat aan	

toestemming is verleend voor het voeren van Kabelkeur op:

CX9D0 coax 9 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, 19 oktober 2016

Mathieu Andriessen Algemeen Directeur NLkabel Projectnummer 10270
Centificaatnummer 136828
Reproductie van dit certificaat is