
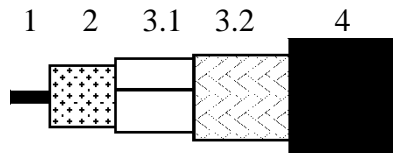


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|---|-----------------------------|---------|-------------------|
|  | TECHNICAL DATA SHEET | Code | H124A00 |
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APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz and the International Standard IEC 1196.

CONSTRUCTION




| | | |
|-----|-----------------|---|
| 1 | Inner conductor | Solid soft annealed copper |
| 2 | Dielectric | Gas injected PE |
| 3.1 | Foil | AL-PET-AL |
| 3.2 | Braid | Annealed tinned copper |
| 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: | 4.4 mm ± 0.15 mm |
| Adhesion: | 7.8 – 78 N at 25 mm |
| 3. Outer conductor: | |
| Diameter screen: | 5.1 mm ± 0.2 mm |
| Foil overlap: | ≥ 2 mm |
| Coverage braid: | 31 % ± 4 % |
| 4. Sheath: | |
| Diameter: | 5.9 mm ± 0.2 mm |
| Tensile strength: | ≥ 12.5 N/mm ² |
| Elongation at break: | ≥ 150 % |
| 5. Cable: | |
| Crush resistance of cable: | < 1% (load of 700N) |
| Storage/operating temperature: | -15°C to +70°C |
| Minimum installation temperature: | -5 °C |
| Maximum tensile strength of cable: | 55 N |
| Minimum static bend radius: | 30 mm |
| Total weight: | 32 g/m |

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Electrical characteristics

| | |
|-----------------------------------|-------------------------|
| Mean characteristic impedance: | 75 ± 3 Ω |
| Regularity of impedance: | > 40 dB |
| DC loop resistance: | ≤ 58 Ω/km |
| DC resistance inner conductor: | ≤ 23 Ω/km |
| DC resistance outer conductor: | ≤ 35 Ω/km |
| Capacitance: | 53 pF/m ± 2 pF/m |
| Velocity ratio: | 0.84 ± 0.02 |
| Insulation resistance: | > 10 ⁴ MΩ.km |
| Voltage test of dielectric: | 2 kVdc |
| Screening efficiency 30-1000 MHz: | ≥ 75 dB |
| Return loss at 5-30 MHz: | ≥ 23 dB* |
| 30-470 MHz: | ≥ 23 dB* |
| 470-862 MHz: | ≥ 20 dB* |
| 862-2400 MHz: | ≥ 18 dB* |

*Max. 3 peak values 4 dB lower than specified.

| | | | |
|----------------|--------------|----------------|--------------|
| Attenuation at | Nominal | Attenuation at | Nominal |
| 5 MHz: | 2.0 dB/100m | 800 MHz: | 19.3 dB/100m |
| 50 MHz: | 4.5 dB/100m | 1000 MHz: | 21.8 dB/100m |
| 100 MHz: | 6.4 dB/100m | 1350 MHz: | 25.7 dB/100m |
| 200 MHz: | 9.2 dB/100m | 1750 MHz: | 29.7 dB/100m |
| 400 MHz: | 13.3 dB/100m | 2150 MHz: | 33.4 dB/100m |
| 600 MHz: | 16.5 dB/100m | 2400 MHz: | 35.6 dB/100m |

Maximum attenuation is 10% higher.

REVISIONS

| # | Description | Date | Initials |
|---|--|------------|----------|
| 4 | Marking and packaging info removed (see BPCS for info) | 2008-04-01 | RvN |
| | | | |
| | | | |



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.