

## H125 AL PVC Belden

Drop coaxial cable used in HFC / CATV broadband communication networks or SATV

### Construction & Dimensions

Inner conductor diameter:	1.0 mm ± 0.02 mm
Dielectric diameter:	4.8 mm ± 0.15 mm
Outer conductor diameter screen:	5.34 mm ± 0.2 mm
Sheath diameter:	6.8 mm ± 0.2 mm

### Mechanical characteristics

Adhesion of dielectric:	7.8 – 78 N at 25 mm
Tensile strength of sheath:	≥ 12.5 N/mm <sup>2</sup>
Elongation of sheath at break:	≥ 150 %
Crush resistance of cable:	< 1% (load of 700N)
Storage temperature:	-40°C to +70°C
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
Total weight:	48 g/m

### Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 50 Ω/km
DC resistance inner conductor:	≤ 23 Ω/km
DC resistance outer conductor:	≤ 27 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.84 ± 0.02
Insulation resistance:	> 104 MΩ.km
Voltage test of dielectric:	2 kV DC

Screening efficiency 30-1000 MHz:	≥ 85 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 (+ max 10%)
5 MHz:	1.4 dB/100m
50 MHz:	4.4 dB/100m
100 MHz:	6.2 dB/100m
200 MHz:	8.9 dB/100m
400 MHz:	12.9 dB/100m
600 MHz:	16.0 dB/100m
800 MHz:	18.8 dB/100m
1000 MHz:	21.2 dB/100m
1350 MHz:	25.1 dB/100m
1750 MHz:	29.0 dB/100m
2150 MHz:	32.7 dB/100m
2400 MHz:	34.8 dB/100m