



**Cable & Connectors**

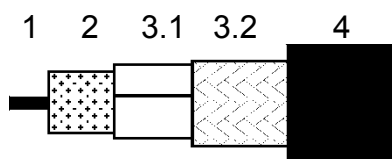
Webro (Long Eaton) Ltd  
Vision House  
Meadow Brooks Business Park  
Meadow Lane, Long Eaton  
Nottingham, NG10 2GD. UK.  
Tel +44(0)115 9724483 Fax +44(0)115 461230  
Email info@webro.com Web www.webro.com

## WF100

### 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	Copper
3.2	Braid	Annealed 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:	1.0 mm ± 0.02 mm
2. Dielectric:	
Diameter:	4.8 mm ± 0.15 mm
Adhesion:	No shrinkback**
3. Outer conductor:	
Diameter screen:	5.4 mm ± 0.2 mm
Foil overlap:	≥ 1 mm
Coverage braid:	34 % ± 4 %
4. Sheath:	
Diameter:	6.8 mm ± 0.2 mm
Tensile strength:	≥ 12.5 N/mm <sup>2</sup>
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:	70 mm
Flexing radius 1 cycle:	150 mm
Total weight:	46 g/m



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**WF100 continued**

**Electrical characteristics**

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 41 Ω/km
DC resistance inner conductor:	≤ 23 Ω/km
DC resistance outer conductor:	≤ 19.5 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	> 10 <sup>4</sup> MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency 50-1000 MHz:	≥ 75 dB
Return loss at 5-30 MHz:	≥ 23 dB*
30-470 MHz:	≥ 23 dB*
470-862 MHz:	≥ 20 dB*
862-2150 MHz:	≥ 18 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.3 dB/100m	800 MHz:	18.0 dB/100m
50 MHz:	4.2 dB/100m	1000 MHz:	20.4 dB/100m
100 MHz:	6.0 dB/100m	1350 MHz:	24.1 dB/100m
200 MHz:	8.6 dB/100m	1750 MHz:	27.9 dB/100m
400 MHz:	12.4 dB/100m	2150 MHz:	31.4 dB/100m
600 MHz:	15.4 dB/100m	2400 MHz:	33.5 dB/100m
		3000 MHz:	37.5 dB/100m

Maximum attenuation is 10% higher.

**Marking**

Text	Inkjet printing
BELDEN VENLO HOLLAND YYYY H125	
Metermarking:	Yes
YYYY:	Year of production.
Other marking on request.	

\*\* not according EN 50117



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