



Cable & Connectors

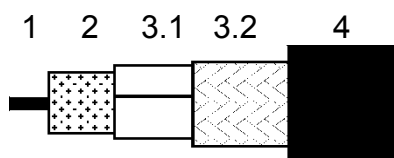
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WF 165

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 Polyester
3.2	Braid	Annealed copper
4	Sheath	PE 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:	1.55 mm ± 0.02 mm
2. Dielectric:	
Diameter:	7.25 mm ± 0.2 mm
Adhesion:	12 – 120 N at 25 mm
3. Outer conductor:	
Diameter screen:	7.9 mm ± 0.25 mm
Foil overlap:	≥ 2 mm
Coverage braid:	46 % ± 5 %
4. Sheath:	
Diameter:	10.1 mm ± 0.3 mm
Tensile strength:	≥ 10 N/mm ²
Elongation at break:	≥ 300 %
5. Cable:	
Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-40°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	100 mm
Total weight:	81 g/m



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WF165 continued

Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 20 Ω/km
DC resistance inner conductor:	≤ 9.4 Ω/km
DC resistance outer conductor:	≤ 10.6 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	3 kVdc
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 – 2150 MHz:	≥ 18 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.9 dB/100m	1000 MHz:	13.6 dB/100m
50 MHz:	2.8 dB/100m	1350 MHz:	16.1 dB/100m
100 MHz:	3.9 dB/100m	1600 MHz:	17.8 dB/100m
200 MHz:	5.7 dB/100m	1750 MHz:	18.7 dB/100m
400 MHz:	8.2 dB/100m	2150 MHz:	21.1 dB/100m
600 MHz:	10.2 dB/100m	2400 MHz:	22.5 dB/100m
800 MHz:	12.0 dB/100m	3000 MHz:	25.2 Db/100m

Maximum attenuation is 10% higher.

Marking

Text	Inkjet printing
BELDEN VENLO HOLLAND YYYY PRG11 CUX	

Metermarking: Yes
YYYY: Year of production.
Other marking on request.



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