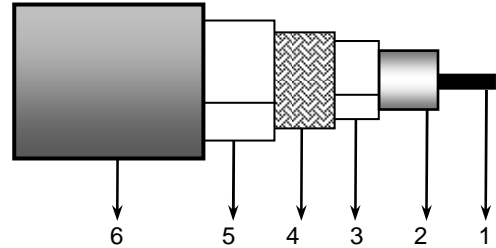


9118E

Infrastructure Cables CATV Drop Cables Coax 9118E AL PVC



Applications

- Coaxial cable used in cable broadband communication networks designed according European Standard EN 50117-1
- Operating frequencies between 5 and 3000 MHz

General Standards

- European standard EN 50117-1 and EN 50117-2-1.
- European standard EN 50290-2-20.
- International Standard IEC1196.

Construction & Dimensions

1. Inner conductor	
Material	copper clad steel
Diameter	1.02 mm ± 0.04 mm
2. Dielectric	
Material	Gas injected PE
Diameter	4.57 mm ± 0.15 mm
3. Inner Foil	
Material	AL-PET (bonded)
4. Braid	
Material	AL 0.16mm/4
Coverage braid	60%
5. Outer foil	
Material	AL-PET-Al
6. Sheath	
Material	PVC
Diameter	6.985 mm ± 0.2 mm

Mechanical characteristics

Parameter	Specification	Unit
Tensile strength of sheath	≥ 12.5	N/mm ²
Elongation at break of sheath	≥ 150	%
Storage/operating temperature	-40 to + 75	°C
Minimum static bend radius	70	mm

Electrical characteristics

Test methods in accordance with European standard EN 50117-1

Parameter	Specification	Unit
Input impedance	75 ± 3	Ω
DC resistance inner conductor	≤ 100	Ω/km
DC resistance outer conductor	≤ 27	Ω/km
Capacitance	52 ± 2	pF/m
Velocity ratio	83% ± 2%	
Insulation resistance	≥ 10 ⁵	Ω.km
Voltage test of dielectric	> 2.5	kVac
Screening Attenuation before flexing 30-1000MHz	≥ 85	dB
Transfer Impedance 5-30MHz	≤ 15	mΩ/m
Return loss at		
	5-1000 MHz ≥ 23	dB
	1000-2000 MHz ≥ 20	dB
	2000-3000 MHz ≥ 18	dB

Attenuation at:	Nominal	Unit
5 MHz:	2.2	dB/100m
55 MHz:	5.3	dB/100m
211 MHz:	9.4	dB/100m
300 MHz:	11.3	dB/100m

Attenuation at:	Nominal	Unit
400 MHz:	13.1	dB/100m
550 MHz:	15.5	dB/100m
870 MHz:	19.7	dB/100m
1000 MHz:	21.5	dB/100m

Maximum attenuation is 10 % higher.



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.