

CONSTRUCTION
AL117 (PE) - AL118 (PVC) – AL119 (HF)
DIMENSIONS

Inner conductor	(Bare copper wire)	CU		$\Phi = 1,70 \pm 0,02$	mm	
Insulation	(Physically foamed PE)	Pee/PH		$\Phi = 7,20 \pm 0,1$	mm	
Outer Conductor	First shield	Alluminium/polyester/Aluminium foil		Al/Pet/Al	Width: 27 mm thickness: $9\mu / 12\mu / 9\mu$	
	Second shield	Tinned copper braid wire ($\Phi = 0,15$ mm) (16x6x0,15) Pitch = 60 mm		56 %		
Jacket (Rohs Compliant)	REF 1096 = Black PE REF 1093 = White PVC REF 1252 = Grey LSZH compound	Black PE With PVC LSZH (Low Smoke Zero Halogen)		$\Phi = 10,2 \pm 0,2$	mm	

Electrical Performances

Characteristic impedance	75	± 3	Ω	
Capacitance	52,0	± 1	pF/mt	
Velocity ratio	85%			
Inner DC resistance		≤ 9	Ω /km	
Outer DC resistance		≤ 11	Ω /km	
Nominal Attenuation (20 °C)				
Max Attenuation = Nominal Attenuation + 5%	MHz	dB/100mt	MHz	dB/100mt
	5	0,9	1350	15,6
	50	2,9	1750	17,9
	200	5,6	2150	20,0
	470	8,8	2400	21,4
	800	11,5	2700	22,7
	1000	13,2	3000	24,2
Return Loss (SRL)				
	[5 470]	MHz	> 26	dB
	[470 1000]	MHz	> 23	dB
	[1000 3000]	MHz	> 16	dB
Transfer Impedance				
	[5 30]	MHz	< 15	m Ω /mt
Screening attenuation				
	[30 1000]	MHz	> 85	dB
	[1000 2000]	MHz	> 75	dB
	[2000 3000]	MHz	> 75	dB

Mechanical Performance

Min. setting radius	≈ 115	mm
Total weight PVC type	≈ 107	Kg/Km
Copper weight	$\approx 37,5$	Kg/km
Std.:	EN 50117-2-4	

[Non contractual document. Producer reserves himself to make modification on the item without any notice]

Rev	ISSUED	Update
00	20/12/2010	