

<u>CONSTRUCTION</u>	<u>DG SMART 5</u>	<u>DIMENSIONS</u>
Inner conductor	CU	$\Phi = 0,8 \pm 0,02$ mm
Dielectric	Pee/PH	$\Phi = 3,5 \pm 0,1$ mm
Alluminium/polyester/Alluminium foil (h =15 mm)	Al/Pet/Al	
Tinned copper braid wire ($\Phi = 0,10$ mm)	Cu-sn	
Structure 16 x 4 x 0,10		
Pitch	60 mm	
Coverage	47%	
Polyester foil (h=15 mm)	pet	
WHITE Pvc outer sheat (RoHS Compliant)	PVC	$\Phi = 5,0 \pm 0,15$ mm



Electrical Performance

Characteristic impedance	75	± 3	Ω		
Capacitance	52,0	± 2	pF/mt		
Velocity ratio	85%				
Inner DC resistance		≤ 35	Ω/km		
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<u>Nominal Attenuation (20 °C)</u>	MHz	dB/100mt	MHz	dB/100mt	
	5	2,4	470	17,5	
	10	2,8	860	23,8	
	50	6,0	1000	25,8	
	100	8,0	1350	30,0	
	230	12,0	1750	34,8	
	300	13,7	2150	39,0	
	400	15,9	3000	46,0	
<u>Return Loss (SRL)</u>	[5	470]	MHz	> 26	dB
	[470	1000]	MHz	> 23	dB
	[1000	2000]	MHz	> 18	dB
	[2000	3000]	MHz	> 16	dB
<u>Screening attenuation</u>	[30	1000]	MHz	> 75	dB
	[1000	2000]	MHz	> 65	dB
	[2000	3000]	MHz	> 55	dB

Mechanical Performance

Min. setting radius (single /mulltiple)	25 / 50	mm
Total weight	27,4	Kg/Km
Copper weight	9,3	Kg/km
Std.:	EN 50117-2-4	

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