

## Category: DG SMART --- DG EXTREME

### Product: DG SMART 7

Parametri costruttivi			
Inner conductor		Cu	1.13+/-0.02mm
Dielectric		PEE	4.8+/-0.1mm
Outer conductor	Tape	All/Pet/All	
	Braid	CuSn	
	Coverage		45%
	Tape		
	Braid		
	Coverage		
Polyester Tape			
Messenger			
Sheath		PVC	6.6+/-0.1mm



Terms glossary	
All	aluminium wire
Cu	copper
CuSn	tinned copper
PE	solid polyethylene
PEE	physically foamed dielectric
Pet	polyester tape
PVC	polyvinylchloride compound (RoHS Compliant)
LSZH	low smoke zero halogen compound
All/Pet	aluminium - polyester Tape
All/Pet/All	aluminium - polyester - aluminium Tape
All/Pet/Copco	aluminium - polyester bonding Tape
Cu/Pet	copper - polyester Tape
FeCu	copper clad steel
PVC (UV Protection)	PVC (RoHS) UV protection Compliant
Fe - Zn	Stranded zinc plated steel wires

Electrical features			
Characteristic impedance		75+/-3	Ohm
Capacitance		52.0+/-2	pf/mt
Velocity ratio		85	%
Inner conductor resistance		<=18	Ohm/Km
Outer conductor resistance		<=22	Ohm/Km
Attenuation 20°			
	Frequency [MHz]	dB / 100 mt	
	5	1.8	
	50	4.2	
	200	8.2	
	470	12.8	
	800	17.0	
	1000	18.9	
	1350	22.4	
	1750	25.5	
	2150	28.4	
	2400	30.0	
	2700	33.0	
	3000	34.0	
Structural return loss			
	Frequency [MHz]		
	5 - 30	>=30	dB
	30 - 470	>=30	dB
	470 - 1000	>=26	dB
	1000 - 2000	>=26	dB
	2000 - 3000	>=20	dB
Transfer impedance			
	Frequency [MHz]		
	[5 - 30]	<=15	Ohm/mt
Screening efficiency			
	Frequency [MHz]		
	[30 - 1000]	>=80	dB
	[1000 - 2000]	>=90	dB
	[2000 - 3000]	>=80	dB

Mechanics features		
Minimum bending radius	35/70	mm
Copper weight	15.0	mm
Total weight	41.0	mm

Description
Our quality. All our cables are manufactured using the gas-injected method (compound made of polyethylene and additive molecular nitrogen, inert gas symbol N2 from the Latin Nitrogenum). This process allows to obtain high excellent levels of expansion and homogeneity of the product, which turn into elevated performances in terms of electrical characteristics. The realisation of the dielectric, moreover, makes use of a triple co extrusion in which are realized, in addition to the foam, two further layers, named respectively internal and outer skin, which contribute to raise the qualitative standard of the product guaranteeing: a major resistance/impermeability to the humidity, mechanical strength, attenuations stable during the time. Reference Std.: EN 50117-2-4. All products are available with coverings: PVC (Indoor) --- PE (Outdoor / Underground) --- PVC _UV Protection (Indoor / Outdoor) --- LSZH (Indoor)