

Description				Data Sheet	
Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm				DG113ZH	
LSZH sheathed cable (Screening attenuation - Class A+)					
					
Ø	1,13 (Cu)	4,80 (PEG)	4,90 (Al/Pet/Al)	5,30 (CuSn)	6,60 (LSZH)
Class CPR acc. to UE 305/2011 (DoP)					
Dca s2,d2,a1					
The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.					
Standards					
EN50117-9-2		EN50117-10-2		CEI-UNEL 36762	
Reaction to Fire					
EN50575					
Application					
DOCSIS 3.1 (Data Over Coax System), Satellite Internet (VSAT)					
8K-UHD					
Indoor + Outdoor Installation					
Construction data					
Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm		
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm		
Aluminum/Polyester/Aluminum tape longitudinally overlapped	(Al/Pet/Al)				
Water repellent sealing (dielectric)	(Jelly1)				
Braid of tinned copper wires	(CuSn)				
Braid optical coverage (IEC 96-1)		72	%		
Diameter over Braid		Ø 5,30	mm		
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,60 ± 0,10	mm		
Printed each meter by blue ink-jet :					
CAVEL DG 113 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-9-2 SA Class A+ CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 8K gggaa(n) m					
(gggaan=batch number m=meter marking)					
Physical data					
Weight of copper conductors		19,20	kg/km		
Total weight of cable		45,60	kg/km		
Minimum bending radius (single/repetead bending)		35/70	mm		
Maximum cable pulling strength		150	N		
Minimum installation temperature		-5	°C		
Operating temperature		-20 / +80	°C		
ITALIANA CONDUTTORI s.r.l.		Date		Responsible	
Viale Zanotti 90 I - 27027 Gropello Cairoli		09/03/2026		A. Bergaglio	
Tel +39-382.815150 Fax +39-0382.814212					

Description

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**Data Sheet****DG113ZH****Electrical data**

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		13,90	Ohm/km
Loop resistance		31,90	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Maximum current (Ieff)		8	A

Structural return loss (SRL)

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>26 dB
2000 - 3000 MHz	>22 dB

Screening Attenuation (SA)

SA-Class A+

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>80 dB

Transfer Impedance (Zt)

5 - 30 MHz

< 5 mΩ/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,60	690	15,10
10	2,30	1000	18,50
30	3,20	1750	24,90
50	4,10	2150	27,90
200	8,00	2400	29,60
300	9,80	3000	33,40
470	12,40		

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Connectors BNCC703 Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm C75-5L Indoor Fittings, 75 Ohm Terminator, for INDOOR installation CCFM75GI Indoor Fittings, 75 Ohm Terminator, for INDOOR installation CS00 Stripper for Drop Cables, Standard cables from 5 to 7 mm, Tools - DR01 Adapter, Nut and Washer, for INDOOR installation F703 Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm F81-HQ Adapter, F Adapter FF, for INDOOR installation F90 Series F Crimp, F Crimp, for INDOOR installation FA703 Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm FC7.0QM Series F Compression, Quick Mount, for OUTDOOR installation FC703 Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm FC703C Series F Compression, F Compression, for OUTDOOR installation FCEM7.0C Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass FCPO5.1C Series F Compression, Ø 5,1 Push-On, for OUTDOOR installation, nitin-plated brass FM-FF90 Adapter, FM - FF 90°, for INDOOR installation FR703 Series F Crimp, F crimp, "Rapid", for INDOOR installation IECF5.1C Series IEC (toolless), female, no tool, for INDOOR installation IECF90C Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation IECFC703 Serie IEC Compression, female, no tool, for OUTDOOR installation IECM5.1C Series IEC (toolless), male, no tool, for INDOOR installation IECM90C Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation IECMC703 Serie IEC Compression, male, for OUTDOOR installation LTE790 Indoor Fittings, Filter, for INDOOR installation MM-F703 Adapter, F Adapter MM, for INDOOR installation MM-FR703 Adapter, F Adapter MM, for INDOOR installation SAT2VS Indoor Fittings, F SAT 2-way Splitter, for INDOOR installation TV2VS Indoor Fittings, IEC TV 2-way Splitter, for INDOOR installation		
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