

Description

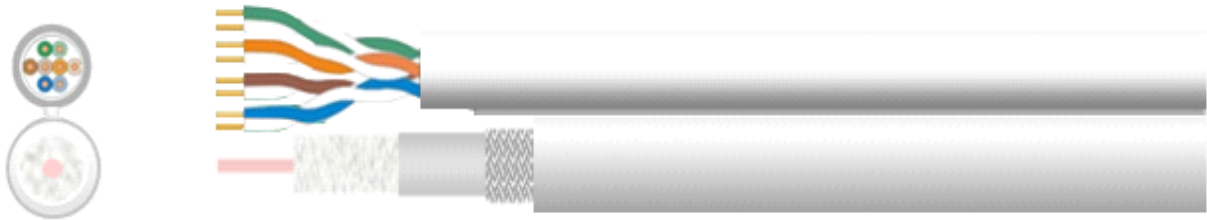
Hybrid multimedia cable

Coaxial A ; LAN Cat. 5e U/UTP 4x2xAWG24/1

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet**H5080ZHB****Construction data****Attached Data Sheet**

LAN540SG

DG80SG

Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant

(LSZH)

Ø 11,10 x 5,00

mm

Printed each 50 cm by ink-jet :

CAVEL H 5080 ZHB MADE IN ITALY 75 Ohm EN50117-2-5 CAT 5E U/UTP ss/aa

(ss=week, aa=year) (m=meter marking)

Physical data

Copper Content		27,99	kg/km
Total weight of cable		61,04	kg/km
Fire Load	761	MJ/km	211 kWh/km

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212**Date****29/02/2016****Responsible****Albero Scardovi**

Description

Local Area Network Cable

Cat.5e U/UTP 4x2xAWG24/1 LSZH

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet**LAN540SG**

H5080ZHB



Ø	0,51	0,90
	(Cu)	(PE)

Standards

EIA-TIA 568A

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,51	mm
Insulation of solid Polyethylene	(PE)	Ø 0,90	mm

Composition

Twisted pairs, coloured by Standard TIA-568A

Physical data

Weight of copper conductors	14,32	kg/km
Total weight of cable	31,58	kg/km
Minimum bending radius x1/n	20/40	mm
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		95	Ohm/km
Loop resistance		190	Ohm/km
Insulation resistance		> 2000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

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**Data Sheet****LAN540SG**

H5080ZHB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
1	1,90	100	19,80
10	6,00	155	24,20
20	8,50	200	27,50
31,2	10,70	250	29,20
62,5	15,70	300	32,00

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Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception (Screening Class A)



Data Sheet

DG80SG

H5080ZHB



Ø	0,80	3,50	3,60	4,00
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,80 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 3,50 ± 0,10	mm
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		65	%

Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	15,48	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	N

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		18,60	Ohm/km
Loop resistance		53,60	Ohm/km
Maximum current (Ieff)		4	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	>90 dB
1000 - 2000 MHz	>75 dB
2000 - 3000 MHz	>65 dB

Shield Transfer Impedance (Zt)

5 - 30 MHz

Zt-Class B

< 9 mOhm/m

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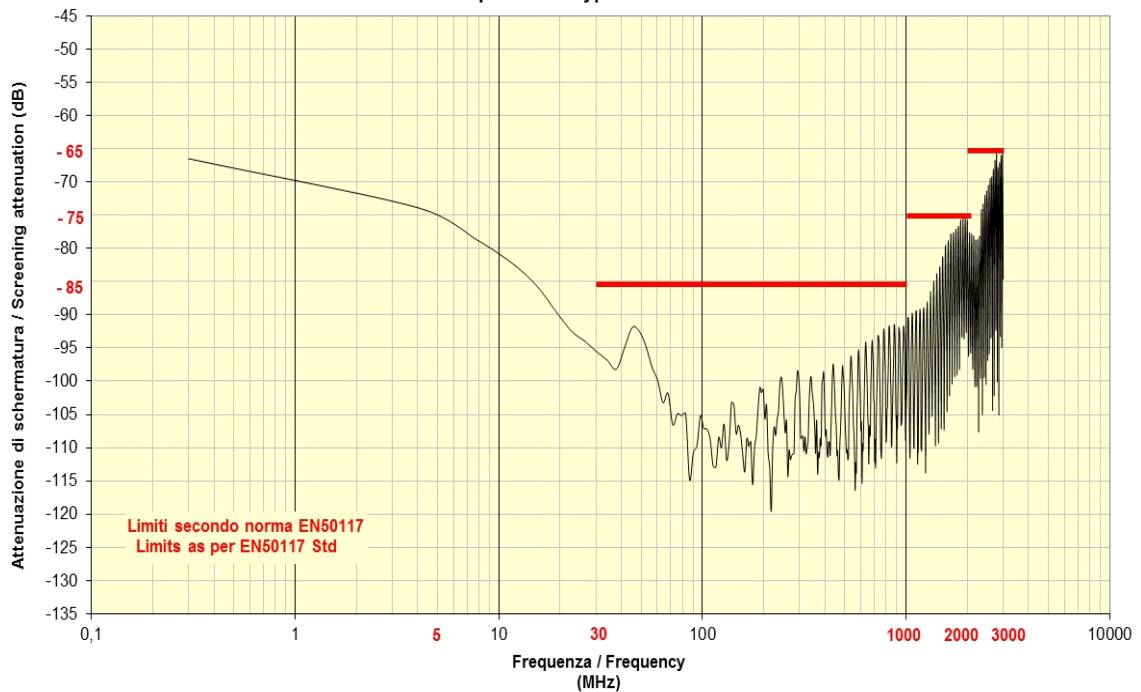
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,90	862	24,20
10	2,60	1000	26,20
30	4,20	1750	35,30
50	5,50	2150	39,60
200	11,20	2400	42,20
300	13,90	3000	48,00
470	17,50		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : DG 80



Limiti secondo norma EN50117
Limits as per EN50117 Std

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