

Description

Hybrid multimedia cable

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

Coaxial Cables

CAVEL

since 1968

Data Sheet

H5080ZHB**Standards**

EN50117-10-2

ISO/IEC 11801 Class D

EN50288-3-1

EN50117-9-2

EN50173

EIA-TIA 568

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

Multimedia / Hybrid Cable

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 EN50117-9-2 CAT 5E U/UTP gggaa(n) - m

(gggaan=batch number m=meter marking)

Physical data

Copper Content	25,40	kg/km
Total weight of cable	58,90	kg/km
Minimum bending radius x1/n	25/50	mm
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +80	°C

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

19/04/2022

Responsible

A. Bergaglio

Description

Local Area Network Cable

Cat. 5e U/UTP 4x2xAWG24/1 Without Sheath

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

LAN540SG

H5080ZHB



Ø	0,51	0,90
	(Cu)	(PE)

Standards

EIA-TIA 568

Application

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	14,30	kg/km
Total weight of cable	17,70	kg/km

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		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		0	---

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Date

17/07/2023

Responsible

A. Bergaglio

Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception

Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG80SG

H5080ZHB



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

Standards

EN50117

Application

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
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)		65	%

Physical data

Weight of copper conductors	11,10	kg/km
Total weight of cable	16,10	kg/km

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
Sheat Insulation voltage (spark test)		3	kV
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

Transfer Impedance (Zt)	
5 - 30 MHz	< 9 mOhm/m

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Date

29/02/2016

Responsible

Alberto Scardovi