Description

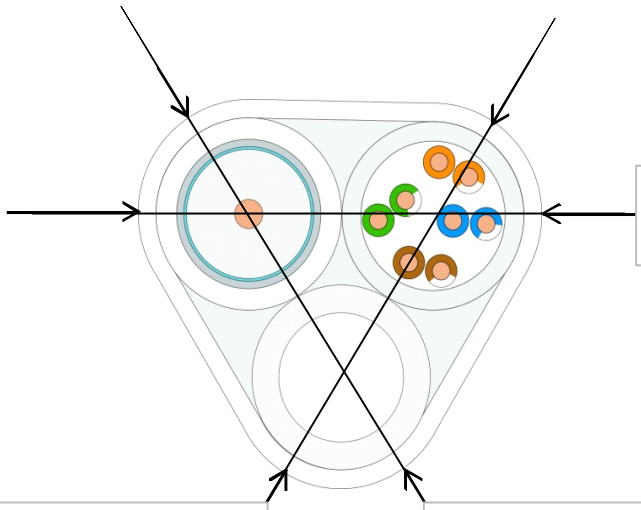
Hybrid multimedia cable

Coaxial, LAN and Loose Tube for Multimedia Applications

Coaxial Cables CAVEL since 1968

Data Sheet

MM8503ZHB



Attached Data Sheet

DG80ZH

LAN540ZH

PIPE1

Outer sheath of Thermoplastic material - white - halogen free and flame retardant	(LSZH)	Ø 12,20 x 12,10	mm

Printed each meter by blue ink-jet :

CAVEL MM8503ZHB MADE IN ITALY MULTIMEDIA COAX DG80ZH + LAN540ZH + LOOSE TUBE ss/aa m

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

Physical data

Weight of copper conductors	25,60	kg/km
Total weight of cable	133,00	kg/km
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

ITALIANA CONDUTTORI s.r.l.
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Date 17/07/2017

Responsible Alberto Scardovi

Description

Outdoor drop coaxial cable - 75 Ohm

Security sheath of LSZH material

Coaxial Cables CAVEL since 1968

Data Sheet

DG80ZH

MM8503ZHB

Ø	0,80	3,50	3,60	4,00	5,00
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(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

EN 50117-2-5

Reaction to Fire

EN50575

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	%
Diameter over Braid		Ø 4,00	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 5,00 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL DG 80 ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	26,60	kg/km
Minimum bending radius (single/repetead bending)	25/50	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

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)		2,50	kV

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Date 29/02/2016

Responsible PierPaolo Piccinini

Description

Outdoor drop coaxial cable - 75 Ohm

Security sheath of LSZH material

Coaxial Cables CAVEL since 1968

Data Sheet

DG80ZH

MM8503ZHB

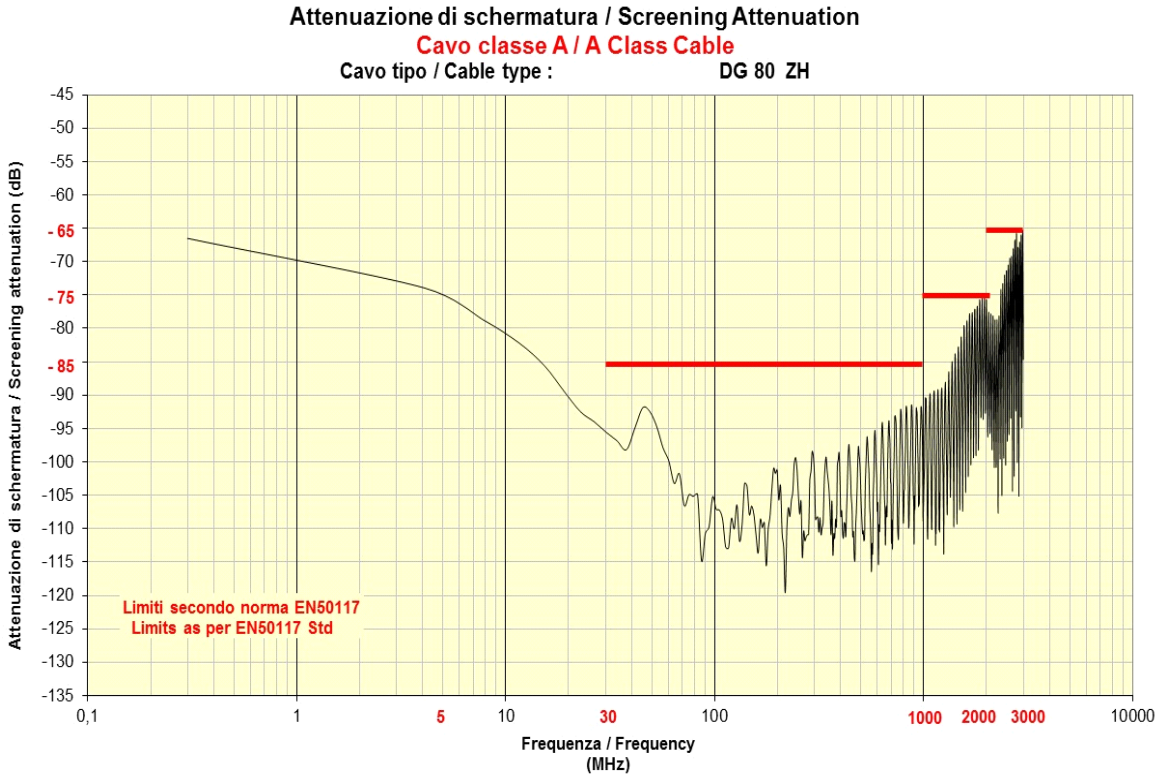
Maximum current (Ieff)	4	A

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)	Zt-Class B
5 - 30 MHz	< 9 mΩ/m



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Date 29/02/2016

Responsible PierPaolo Piccinini

Description
Local Area Network Cable

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

Coaxial Cables CAVEL since 1968

Data Sheet

LAN540ZH
MM8503ZHB

Ø	0,51	0,90	5,10
	(Cu)	(PE)	(LSZH)

Class CPR acc. to UE 305/2011 (DoP)

Eca

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

EIA-TIA 568-B	ISO/IEC 11801 2° ed.	IEC 61156-5	EN 50173
EN 50288-3-1			

Reaction to Fire

IEC 60332-1	EN50575

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

Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 5,10	mm

Printed each meter by blue ink-jet :

CAVEL LAN 540 ZH MADE IN ITALY CAT 5E U/UTP 4x2xAWG24 - Euroclass Eca ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

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

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Responsible
Alberto Scardovi

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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Date
30/05/2017

Responsible
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Ø 3,5 / 5,0 mm

PE+PP

Side Pipe in Polyethylene+Polypropylene blend (PE+PP)

Inner	∅	3,50	±	0,20	mm
Outer	∅	5,00	±	0,20	mm

Physical data

Weight	9,15	kg

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