

Description

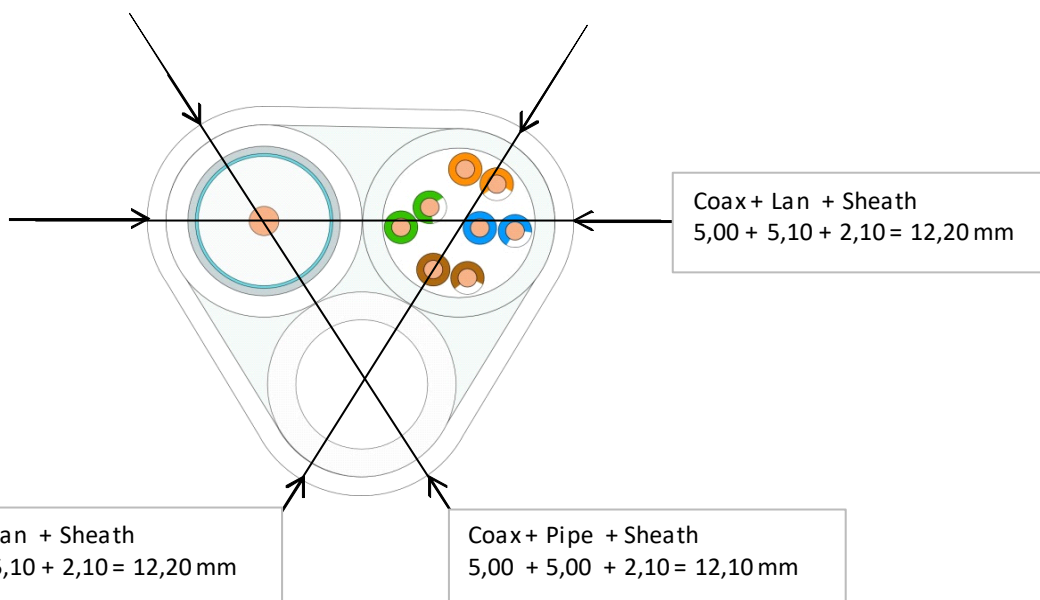
Hybrid multimedia cable

Coaxial, LAN and Loose Tube for Multimedia Applications



Data Sheet

MM8503ZHB



Standards

EN50117-9-2

EN50117-10-2

ISO/IEC 11801 Class D

EN50288-3-1

EN50173

EIA-TIA 568

CEI-UNEL 36762

Application

Multimedia / Hybrid Cable

Indoor + Outdoor Installation

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 gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	25,40	kg/km
Total weight of cable	130,00	kg/km
Minimum bending radius x1/n	100 / 200	mm
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

10/10/2023

Responsible

A. Bergaglio

Description

Double Shielded Coaxial Connection Cable, for digital reception -
75 Ohm
Security sheath of LSZH material (Screening attenuation - Class A)

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

EN50117-9-2

EN50117-10-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

4K-UHD

Indoor + Outdoor Installation

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 EN50117-9-2 SA Class A CEI-UNEL
36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m**

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	26,77	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Maximum cable pulling strength	90	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

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Date

12/06/2023

Responsible

A. Bergaglio

Description

Double Shielded Coaxial Connection Cable, for digital reception -
 75 Ohm
 Security sheath of LSZH material (Screening attenuation - Class A)

**Data Sheet**

DG80ZH
 MM8503ZHB

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
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 mΩ/m

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Responsible

A. Bergaglio

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

ISO/IEC 11801 Class D	EN 50288-3-1	EN 50173	EIA-TIA 568
CEI-UNEL 36762			

Reaction to Fire

EN50575

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IPTV; HbbTV 2.0.n

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5 16 MB: ISDN; TPDDI; ATM; PoE

Indoor + Outdoor Installation

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
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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) gggaa(n) m

(gggaan=batch number m=meter marking)

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Date

17/07/2023

Responsible

A. Bergaglio

Description

Local Area Network Cable

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

**Data Sheet****LAN540ZH**

MM8503ZHB

Physical data

Weight of copper conductors	14,32	kg/km
Total weight of cable	31,10	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 / +80	°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		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

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Date**17/07/2023****Responsible****A. Bergaglio**

Description

PE/PP Side Pipe

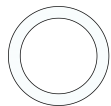
Coaxial Cables

CAVEL[®]

since 1968

Data Sheet**PIPE1**

MM8503ZHB



∅

3,5 / 5,0 mm

PE+PP

Application

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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