

Description

Hybrid multimedia cable

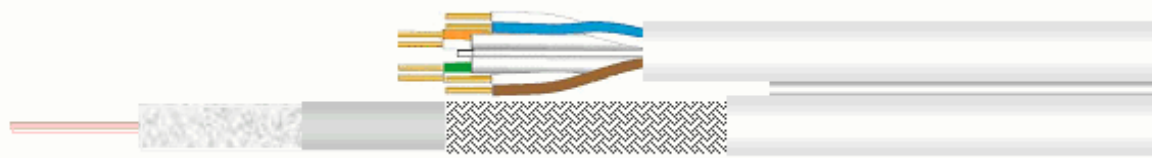
Coaxial class A++; LAN Cat. 6 U/UTP 4x2xAWG23/1

Coaxial Cables

CAVEL

since 1968

Data Sheet

H6091ZHB**Standards**

EN50117-9-2

EN50117-10-2

ISO/IEC 11801 Class E

EN50288-6-1

EN50173

EIA-TIA 568

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

Multimedia / Hybrid Cable

Indoor + Outdoor Installation

Attached Data Sheet

LAN640ZHB

RP913ZHB

Outer sheath of Thermoplastic material - white (RAL9010) - halogen-free, low smoke, flame retardant and UV-resistant

(LSZH)

Ø 14,20 x 6,60

mm

Printed each meter by blue ink-jet :

CAVEL H 6091 ZHB MADE IN ITALY 75 Ohm Euroclass Eca EN50117-9-2 CAT. 6 U/UTP gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	36,30	kg/km
Total weight of cable	88,00	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Max. Tensile Strength	150	N
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°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

Hybrid multimedia cable

Coaxial class A++; LAN Cat. 6 U/UTP 4x2xAWG23/1

Coaxial Cables

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H6091ZHB**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
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
IECF5.1C	Series IEC (toolless), female, no tool, for INDOOR installation
IECF90C	Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation
IECF703	Series 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
IECM703	Series 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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Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 LSZH

Coaxial Cables

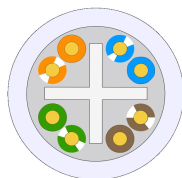
CAVEL

since 1968

Data Sheet

LAN640ZHB

H6091ZHB



Ø	0,55	1,05	6,80
	(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 E	EN50288-6-1	EN50173	IEC 61156
EIA-TIA 568	CEI-UNEL 36762		

Reaction to Fire

EN50575

Application**Construction data**

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,55	mm
Dielectric of solid polyethylene	(PE)	Ø 1,05	mm

Composition

Twisted pairs, coloured by Standard TIA-568A

Plastic Cross Separator

Outer sheath of Thermoplastic material - white (RAL9010) - (LSZH) Ø 6,60 mm
 halogen-free, low smoke, flame retardant and UV-resistant

Printed each meter by blue ink-jet :

**CAVEL LAN 640 ZHB MADE IN ITALY CAT 6 U/UTP 4x2xAWG23 - Euroclass Eca ISO-IEC 11801 EN50173
 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	17,30	kg/km
Total weight of cable	48,70	kg/km
Minimum bending radius x1/n	35/70	mm
Maximum cable pulling strength	100	N
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

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Responsible

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Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 LSZH

**Data Sheet****LAN640ZHB**

H6091ZHB

Physical data

Weight of copper conductors	17,30	kg/km
Total weight of cable	48,70	kg/km
Minimum bending radius x1/n	35/70	mm
Maximum cable pulling strength	100	N
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		80	Ohm/km
Loop resistance		160	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**10/10/2023****Responsible****A. Bergaglio**

Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm
 Indoor and Outdoor installation cable (Screening attenuation - Class A++)



Data Sheet

RP913ZHB
 H6091ZHB



Ø	1,13 (Cu)	4,75 (PEG)	4,90 (Al/Pet)	5,30 (CuSn)	6,60 (LSZH)
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Standards

EN50117-9-2	EN50117-10-2	CEI-UNEL 36762
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Reaction to Fire

EN50575

Application

- DOCSIS 3.1 (Data Over Coax System)
- CATV
- 4K-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 4,75 ± 0,10	mm
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
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 - white (RAL9010) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,60 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL RP913ZHB MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 SA Class A++ EN50117-9-2 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	19,07	kg/km
Total weight of cable	45,96	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m

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Date

11/07/2023

Responsible

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Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm
 Indoor and Outdoor installation cable (Screening attenuation - Class A++)

**Data Sheet**

RP913ZHB
 H6091ZHB

Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		10,70	Ohm/km
Loop resistance		28,70	Ohm/km
Sheat Insulation voltage (spark test)		3	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++	Transfer Impedance (Zt)	
30 - 1000 MHz	>110 dB	5 - 30 MHz	< 2,5 mOhm/m
1000 - 2000 MHz	>105 dB		
2000 - 3000 MHz	>90 dB		

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