

Description

Hybrid multimedia cable

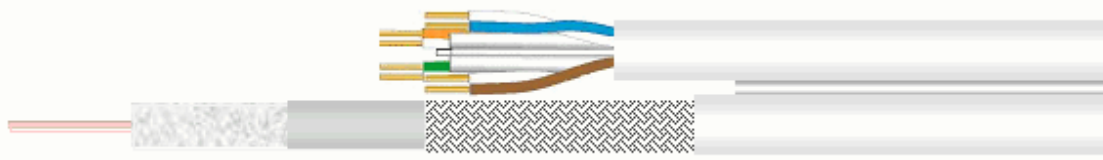
Coaxial class A++ and LAN Cat. 6 U/UTP

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

H6091ZHB

Ø

Construction data**Attached Data Sheet**

LAN640SG

RP913SG

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

(LSZH)

13,20 x 6,60 mm

Printed each meter by blue ink-jet :

CAVEL H 6091 ZHB MADE IN ITALY 75 Ohm EN50117-2-5 CAT. 6 U/UTP ss/aa - m

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

Mechanical data

Weight of copper conductors	37,31	kg/km		
Total weight of cable	90,00	kg/km		
Fire Load	1.259	MJ/km	350	kWh/km

Standards**Connector**

FA703	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
F703	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
BNCC703	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
IECF90C	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
IECM90C	Series IEC (no tool), Ø 5,1 90° male, for indoor installation
FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass
FC703	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for outdoor installation
IECF703	Serie IEC Compression, female, no tool, for outdoor installation
IECM703	Serie IEC Compression, male, for outdoor installation
IECF5.1C	Series IEC (no tool), female, no tool, for indoor installation
IECM5.1C	Series IEC (no tool), male, no tool, for indoor installation

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

28/02/2012

Responsible

Giuseppe Guastella

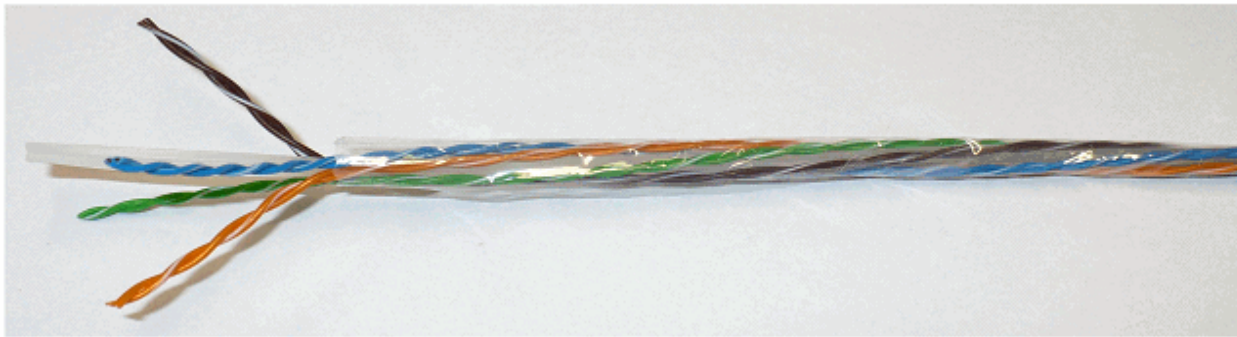
Description

Local Area Network Cable
 Cat. 6 U/UTP 4x2xAWG23



Data Sheet

LAN640SG
 H6091ZHB



Ø 0,57 1,00
 (Cu) (PE)

Construction data

4x2xAWG23 pairs of copper wires	(Cu)	0,57 mm
Insulation of solid Polyethylene	(PE)	1,00 mm

Composition

- white/blu - blu
- white/green - green
- white/orange - orange
- white/brown - brown

Cross separator in Polyethylene (PE)

Electrical data

Characteristic impedance	1 - 100 MHz	100 ± 15	Ohm
	100 - 250 MHz	100 ± 22	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Factor		67 %	
Conductor resistance @ 20°C		80	Ohm/Km
Loop resistance		160	Ohm/km
Insulation resistance		> 5.000	MOhm/Km
Test voltage (DC, 1 min)		1	KV

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB/100m]	ACR [dB]	FEXT [dB]
1	1,80	25,00	100,00	98,20	90,00
10	5,40	25,00	80,00	74,60	70,00
20	7,70	25,00	70,00	62,30	60,00
31,2	9,60	25,00	65,00	55,40	53,00
62,5	13,70	25,00	60,00	43,30	50,00
100	17,40	25,00	60,00	42,60	48,00
155,5	21,90	25,00	55,00	33,10	46,00
200	25,00	20,00	55,00	30,00	44,00
250	28,10	20,00	50,00	21,90	40,00

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**Data Sheet**

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Mechanical data

Weight of copper conductors	18,50	kg/km
Total weight of cable	40,96	kg/km
Minimum bending radius (installation/operation)	70/35	mm
Maximum cable pulling strength	100	N
Maximum pulling strength during the installation	100	N
Working temperature	-20 / +60	°C
Lay out temperature	> 0 < +50	°C

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Description

Double shielded coaxial cable - 75 Ohm
 Double shielded cable (Screening Class A++)



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∅	1,13	4,80	4,95	5,35
	(Cu)	(PEG)	(Al/Pet)	(CuSn)

Construction data

Inner conductor of plain copper	(Cu)	1,13 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	4,80 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Aluminium/Polyester tape longitudinally overlapped	(Al/Pet)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		71 %
Diameter under Sheath		5,35 mm

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Factor		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		10,70	Ohm/km
Loop resistance		28,70	Ohm/km
Insulation voltage of the sheath (spark test)		3	kV
Maximum current (I _{eff})		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)			
30 - 1000 MHz	>112 dB	Transfer impedance	
1000 - 2000 MHz	>104 dB	5 - 30 MHz	< 0,05 mOhm/m
2000 - 3000 MHz	>91 dB		

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Description

Double shielded coaxial cable - 75 Ohm
 Double shielded cable (Screening Class A++)



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Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,40	862	17,30
10	1,90	1000	18,70
30	3,00	1750	25,70
50	4,00	2150	28,80
200	8,10	2400	30,60
300	9,90	3000	34,10
470	12,60		

Mechanical data

Weight of copper conductors	19,10	kg/km
Total weight of cable	28,10	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Maximum cable pulling strength	150	N

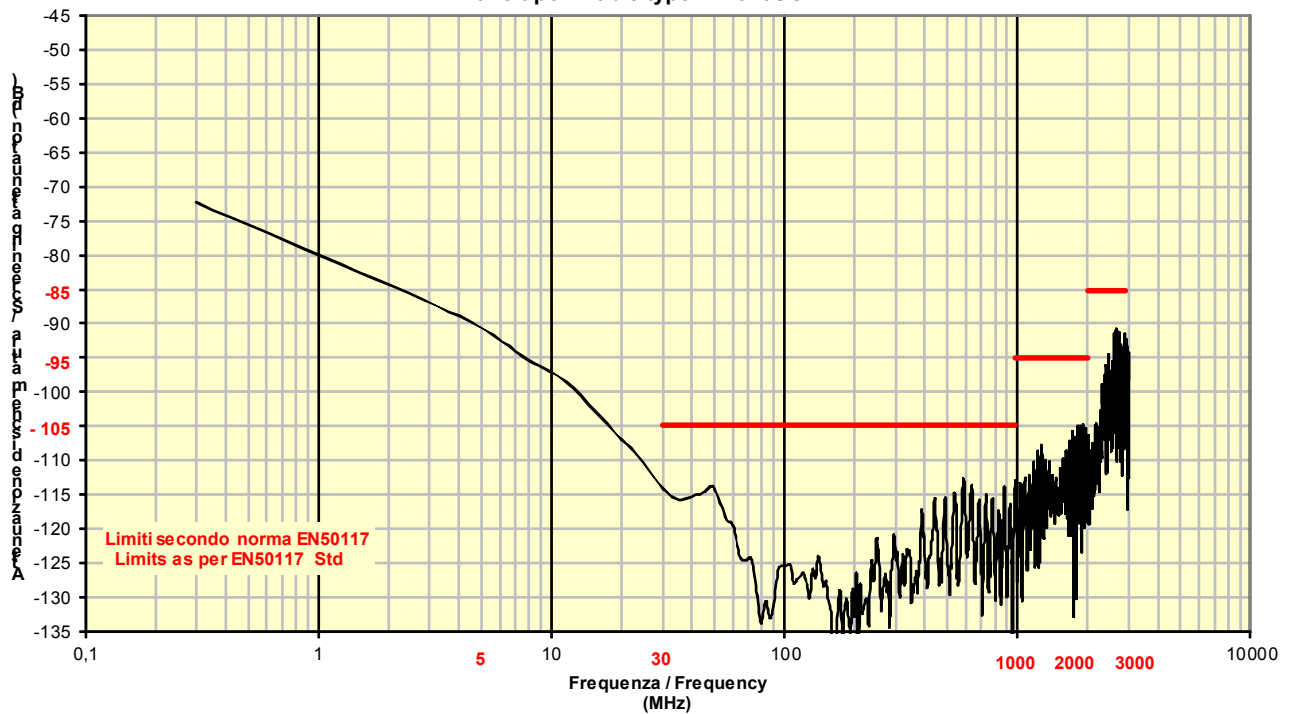
Standards

EN50117-2-4

Attenuazione di schermatura / Screening Attenuation

Cavo classe A++ / A++ Class cable

Cavo tipo / Cable type: RP913SG



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 Double shielded cable (Screening Class A++)

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