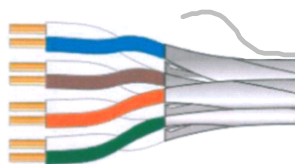
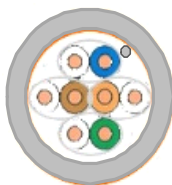


Local Area Network Cable

Cat. 6A U/FTP 4x2xAWG23/1 grey LSZH (600 MHz)



LAN6A43ZH



Ø

0,57

1,35

7,80

(Cu)

(PEG)

(Al/Pet)

(LSZH)

Standards

EN50173-1

EN 50288-10-1

ISO/IEC 11801

Reaction to Fire

IEC 60332-1

Application

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

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

IEEE 802.5 16 MB: ISDN; FDDI; ATM

Power over Ethernet (PoE)/PoE+

Construction data

4 pairs with conductor of bare copper wires

(Cu)

Ø 0,57

mm

Insulation of physical foam Polyethylene

(PEG)

Ø 1,35

mm

Al/Pet foil shielded pairs, PiMF mode

(Al/Pet)

Composition

Twisted pairs, coloured by Standard TIA-568A

Drain wire of tinned copper

(CuSn)

Ø 0,40

mm

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

(LSZH)

Ø 7,80

mm

Printed each meter by blue ink-jet :

CAVEL LAN 6 A 43 ZH MADE IN ITALY CAT 6A U/FTP 4x2xAWG23/1 - ISO-IEC 11801 EN50173-1 CEI-UNEL**36762 C-4 (U0 = 400V) gggaan - m**

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors

19,80

kg/km

Total weight of cable

58,10

kg/km

Minimum bending radius x1/n

35/70

mm

Max.Tensile Strength

100

N

Installation temperature

0 / +50

°C

Operating temperature

-20 / +60

°C

Electrical data**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

21/05/2019

Responsible

Alberto Scardovi

Description		*** Provisional Data Sheet ***		Coaxial Cables CAVEL® since 1968		Data Sheet	
Local Area Network Cable						LAN6A43ZH	
Cat. 6A U/FTP 4x2xAWG23/1 grey LSZH (600 MHz)							
Characteristic impedance		100 MHz		100 ± 5		Ohm	
Capacitance of Twisted Pair (@800Hz)				43		pF/m	
Velocity Ratio				77 %			
DC Conductor Resistance				73		Ohm/km	
Loop resistance				146		Ohm/km	
Insulation resistance				> 5000		MOhm/km	
Sheath Insulation Voltage (DC, 1 min)				1		kV	
Coupling Attenuation				> 45		dB	
Screening Attenuation (SA)				Transfer Impedance (Zt)			
30 - 100 MHz		> 70 dB		1 MHz		< 11 mOhm/m	
100 - 600 MHz		> 50 dB		10 MHz		< 5 mOhm/m	
				30 MHz		< 3 mOhm/m	
Transmission-Characteristic (at 20°C)							
Frequency	Attenuation	RL	NEXT	ACR-N			
[MHz]	[dB/100m]	[dB]	[dB]	[dB/100m]			
1	2,10	25,00	90,00	87,90			
4	3,60	25,00	90,00	86,40			
10	5,40	25,00	90,00	84,60			
16	6,80	25,00	90,00	83,20			
20	7,70	25,00	85,00	77,30			
31,25	9,60	25,00	85,00	75,40			
62,5	13,70	25,00	80,00	66,30			
100	17,40	25,00	80,00	62,60			
125	19,50	25,00	80,00	60,50			
155,5	21,90	25,00	80,00	58,10			
175	23,30	25,00	75,00	51,70			
200	25,00	25,00	75,00	50,00			
250	28,10	25,00	75,00	46,90			
300	30,90	25,00	70,00	39,10			
450	38,30	25,00	70,00	31,70			
600	44,80	20,00	65,00	20,20			
ITALIANA CONDUTTORI s.r.l.							
Viale Zanotti 90 I - 27027 Gropello Cairoli			Date		Responsible		
Tel +39-382.815150 Fax +39-0382.814212			21/05/2019		Alberto Scardovi		