

Description

Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23 PVC

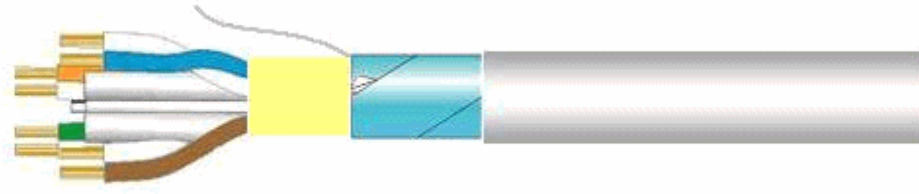
Coaxial Cables

CAVEL

since 1968

Data Sheet

LAN_641CW



Construction data

4x2xAWG23 pairs of copper wires	(Cu)	0,57	mm
Insulation of solid Polyethylene	(PE)	1,10	mm

Composition	Sheath Colour	Lay length of pairs [mm]
	white/blu - blu	11,00
	white/green - green	12,50
	white/orange - orange	14,50
	white/brown - brown	16,00

Polyester film spirally wond	(Pet)	25 x 23	mm/μm
Drain wire of tinned copper	(CuSn)	0,40	mm
Cross separator in Polyethylene	(PE)		
Outer Aluminium/Polyester tape	(Al/Pet)	27 x 30/19	n/μm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)		7,60 mm

Printed each meter by blue ink-jet :

**CAVEL LAN 641 CW MADE IN ITALY ss/aa F/UTP 4x2xAWG23 - CATEGORY 6 ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 =400V) - m**

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

Electrical data

Characteristic impedance	1 - 100 MHz	100 ± 15	Ohm	
	100 - 250 MHz	100 ± 18	Ohm	
Capacitance of Twisted Pair (@800Hz)		48	pF/m	
Velocity Ratio		67 %		
Conductor resistance @ 20°C		80	Ohm/Km	
Loop resistance		160	Ohm/km	
Insulation resistance		> 5.000	>MOhm x km	
Test voltage (DC, 1 min)		1	KV	
Coupling Attenuation	30 - 100 MHz	> 40 dB		
Screening Attenuation (SA)	30 - 250 MHz	> 40 dB	Transfer impedance	
			up to 1 MHz	< 2 mOhm/m
			up to 10 MHz	< 2,5 mOhm/m
			up to 30 MHz	< 6 mOhm/m

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Date

03/10/2013

Responsible

Giuseppe Guastella

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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	46,30	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

Mechanical data

Weight of copper conductors	19,36	kg/km			
Total weight of cable	52,56	kg/km			
Minimum bending radius (installation/operation)	70/35	mm			
Maximum pulling strength during the installation	100	N			
Working temperature	-20 / +60	°C			
Minimum lay out temperature	0 / +50	°C			
Fire Load	908	MJ/km	252	kWh/km	

Standards

IEC60332-1
 EIA-TIA 568-B2
 ISO/IEC 11801; IEC 61156-5
 EN50173; EN50288-5-1

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