

Description

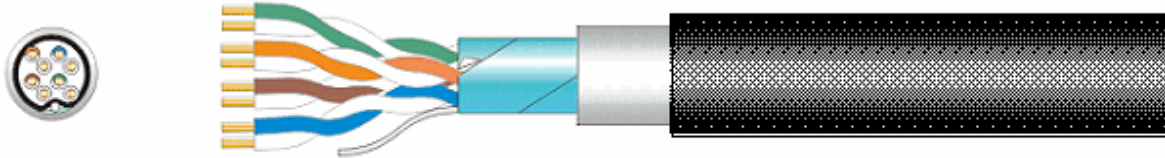
Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24 PVC



Data Sheet

LAN_541_2G



0,51	1,00	6,00	7,50
(Cu)	(PE)	(PE)	

Construction data

4x2xAWG24 foil screened pairs of bare copper wires	(Cu)	0,51	mm
Insulation of solid Polyethylene	(PE)	1,00	mm

Composition	Sheath Colour	Lay length of pairs [mm]
	white/blu - blu	13,00
	white/green - green	14,20
	white/orange - orange	18,00
	white/brown - brown	20,40

Alluminio/Polyester tape spirally wound	(Al/Pet)	23 x	30/19	mm/µm
Drain wire of tinned copper	(CuSn)		0,40	mm
Inner sheath of Polyvinylchloride white (PVC)	(PVC)		6,00	mm
Outer sheath of Polyethylene - black	(PE)			7,50 mm

Printed each meter by yellow ink-jet :

CAVEL LAN 541 2G MADE IN ITALY ss/aa F/UTP 4x2xAWG24 - CATEGORY 5E ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 =400V) - m

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

Electrical data

Characteristic impedance	1 - 100 MHz	100 ± 15	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
Conductor resistance @ 20°C		95	Ohm/km
Loop resistance		190	Ohm/km
Insulation resistance		> 2.000	MOhm x km
Test voltage (DC, 1 min)		1	kV
Coupling Attenuation	30 - 100 MHz	> 45	dB

Screening Attenuation (SA)		Transfer impedance
30 - 100 MHz	> 40 dB	up to 1 MHz < 25 mOhm/m
	---	up to 10 MHz < 8 mOhm/m
	---	up to 30 MHz < 10 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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Date

03/10/2013

Responsible

Alberto Scardovi

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Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

LAN_541_2G

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB/100m]	ACR [dB]
1	1,90	20,00	71,00	69,10
10	6,00	25,00	56,00	50,00
20	8,50	25,00	51,00	42,50
31,2	10,70	24,00	49,00	38,30
62,5	15,70	22,00	44,00	28,30
100	19,80	20,00	41,00	21,20
155,5	24,20		38,00	13,80
200	27,50		36,00	8,50
250	29,20		35,00	5,80
300	32,00		34,00	2,00

Mechanical data

Weight of copper conductors	15,72	kg/km		
Total weight of cable	50,25	kg/km		
Minimum bending radius (installation/operation)	50/25	mm		
Maximum pulling strength during the installation	100	N		
Working temperature	-20 / +60	°C		
Lay out temperature	0 / +50	°C		
Fire Load	1.040	MJ/km	289	kWh/km

Standards

IEC 60332-1
EIA-TIA 568B.2
ISO/IEC 11801; IEC 61156-5
EN50173; EN50288-2-1

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