CERVICOM DATA U/UTP Cat.5e PE Outdoors
Structured cabling

Construction

Conductor	Bare copper wire
	Diameter: 0,50 mm (AWG24)
Insulation	Polyethylene
	Diameter: 1,03 mm
Assembly	Two insulated conductors twisted together as a pair
Pair Screen	-
General assembly	4 twisted pairs laid up together
Overall screen	-
Outer sheath	PE (UV stabilised)
	Colour: Black

Technical characteristics

Outer diameter	5 mm
Weight	35 Kg/Km
Operating Tª	Fixed installation: -20°C to +60°C
	During installation: 0°C to +50°C
Min. bending radius	Fixed installation (without load): 8xD Min.
	During installation (with load): 12xD Min.
Loop resistance	169 Ohm/Km Max.
Resistance unbalance	2% Max.
Insulation resistance	2000 MOhm*Km Min. (500V)
Mutual capacitance	Nominal 50 pF/m (at 800Hz)
Capacitance unbalance	1500 pF/Km Max. (Pair-Ground)
Characteristic Impedance	100 Ohm
Velocity of propagation	66%
Propagation delay	Nominal 427 ns/100m
Test Voltage	1000 V (DC, 1 min)
Transfer Impedance	-
Coupling attenuation	-
Segregation class	-

Application

Data transmission cable for Local Area Networks (LAN):

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

IEEE 803.3: 10Base-T, 100Base-T, 1000Base-T

IEEE 802.5 16Mb; ISDN; FDDI; ATM

Standards / Properties

Ref. for construction/drawing	ISO/IEC 11801; IEC 61156-5
	EN 50173; EN 50288-2-1

UV resistant

Code:
Family: 1445
Revision: 9
Date: 14/08/2017

Realized:

Approved:

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Article Table

Code	Cable	Supply
14450061	U/UTP Cat.5e 4x2xAWG24 PE	Drums 1000mts

Colour code

PAIR N°	Conductor A	Conductor B
1	Blue	White/Blue
2	Orange	White/Orange
3	Green	White/Green
4	Brown	White/Brown

Electrical Data

Frec.(MHz)	** Attenuation	*NEXT	*PSNEXT	**ELFEXT	**PS-ELFEXT	*RL
1	2	65	62	68	65	20
4	3.7	56	53	56	53	23
10	6	50	47	48	45	25
16	7.6	47	44	44	41	25
20	8.5	45	42	42	39	25
31.2	10.7	40	40	38	35	24
62.5	15.7	38	35	32	29	22
100	19.9	35	32	28	25	20

Units: * = dB / ** = dB/100m

Frec.(MHz)   Frequency

Realized: **Approved:**