



## Construction

<b>Conductor</b>	Bare copper wire Diameter: 0,56 mm (AWG23)
<b>Insulation</b>	FoamSkin PE (Foam polyethylene) Diameter: 1,35 mm
<b>Assembly</b>	Two insulated conductors twisted together as a pair
<b>Pair Screen</b>	Aluminium/Polyester tape in "S" shape helically applied on two pairs covering each of them individually
<b>General assembly</b>	4 shielded pairs laid up together
<b>Overall screen</b>	-
<b>Outer sheath</b>	PE (UV stabilised) Colour: Black

## Technical characteristics

<b>Outer diameter</b>	8,6 mm
<b>Weight</b>	62 Kg/Km
<b>Operating T<sup>a</sup></b>	Fixed installation: -20°C to +60°C During installation: 0°C to +50°C
<b>Min. bending radius</b>	Fixed installation (without load): 4xD During installation (with load): 8xD
<b>Loop resistance</b>	176 Ohm/Km Max.
<b>Resistance unbalance</b>	2% Max.
<b>Insulation resistance</b>	2000 MOhm*Km Min. (500V)
<b>Mutual capacitance</b>	Nominal 43 pF/m (at 800Hz)
<b>Capacitance unbalance</b>	1500 pF/Km Max. (Pair-Ground)
<b>Characteristic Impedance</b>	100 ± 5 Ohm
<b>Velocity of propagation</b>	79%
<b>Propagation delay</b>	Nominal 450 ns/100m
<b>Test Voltage</b>	1000 V (DC, 1 min)
<b>Transfer Impedance</b>	Max. 50 mOhm/m (at 1 MHz) Max. 100 mOhm/m (at 10 MHz) Max. 200 mOhm/m (at 30 MHz)
<b>Coupling attenuation</b>	55 dB
<b>Segregation class</b>	-

## Application

Shielded Category 6 data transmission cable for local area networks (LAN):  
Primary(Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 803.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T  
IEEE 802.5 16Mb; ISDN; FDDI; ATM

## Standards / Properties

Ref. standard for drawing

TIA/EIA-568-B.2-10 Draft 5.0  
ISO/IEC 11801; IEC 61156-5  
EN 50173; EN 50288-10 Draft



## Article table

Code	Cable	Supply
14450010	U/FTP Cat.6 4x2xAWG23 PE	Drums 1000mts

## Colour code

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

## Electrical data

Frec.(MHz)	** Attenuation	*NEXT	*PSNEXT	**ACR	**PS-ACR	**ACRF	**PS-ACRF	*RL
1	1.8	100	97	98	95	105	105	-
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
16	6.8	100	97	93	90	93	90	30
20	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100	17.4	100	97	83	80	77	74	30
125	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175	23.3	93	90	70	67	72	69	25
200	25	92	89	67	64	71	68	25
250	28.1	90	87	62	59	69	66	24
300	30.9	89	86	58	55	67	64	24
400	38.3	87	84	48	45	64	61	23

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

Frec.(MHz)

Frequency