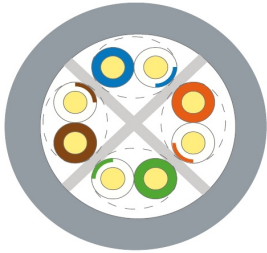


VOIKABEL Cat 6 U/UTP

Data Cables

Cable construction



Conductor	Bare copper wire, Ø 23AWG
Insulation	HDPE, Color Code:TIA 568 80°C, EN 50290-2-23
Cross separator	PE
Sheath	PVC - RAL 7001 Grey, Ø 6,0mm TM51 70°C, EN 50290-2-22

Application

In data processing and information systems, the cable capable of transmitting analog and digital signal at 1 Gbit/s with a frequency of 250MHz, suitable for 1 Gigabit Ethernet, is designed with using physical foaming technology in its production for data, audio and video applications. The cable meets standards related with structured cabling systems such as ANSI EIA/TIA 568, ISO/IEC 11801 ve EN 50173 Class E

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Fire Performances

Vertical flame propagation EN 60332-1-2
Euro class Eca

Technical information

Temperature range			
installation		-20 °C ... +60 °C	
in operation		0 °C ... +50 °C	
Bending radius			
during installation	min.	4 x D	
as installed	min.	8 x D	
Crush resistance	min.	1000 N/10cm	
DC resistance	max.	85 Ω/km	
Resistance unbalance	max.	2%	
Insulation resistance	min.	5000 MΩ x m	
Mutual capacitance	nom.	50 pF/m	
Capacitance unbalance	max.	1600 pF/km	
Characteristic impedance		100 ± 5 Ω @100MHz	
Velocity of propagation		67-69%	
Propagation delay	max.	537 ns/100m	
Delay skew	max.	45 ns/100m	
Testing voltage		1000 V	

Standards

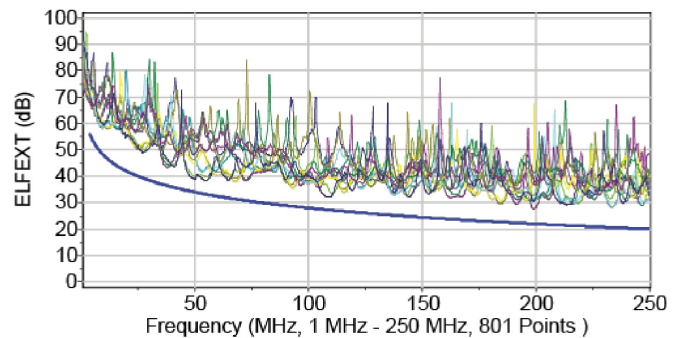
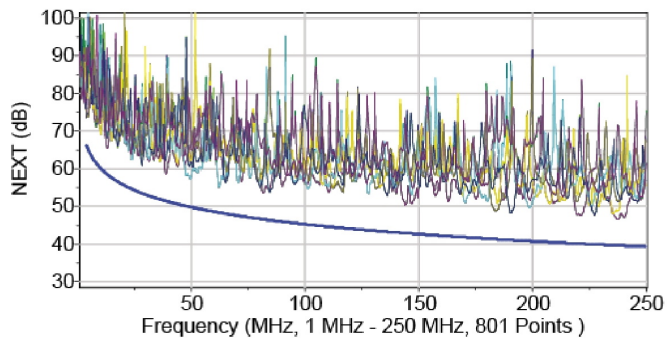
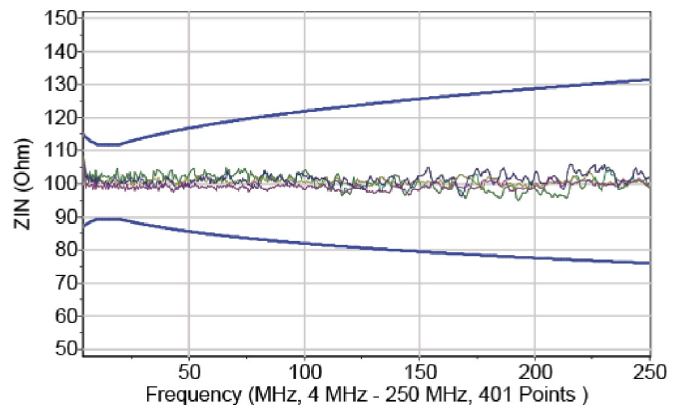
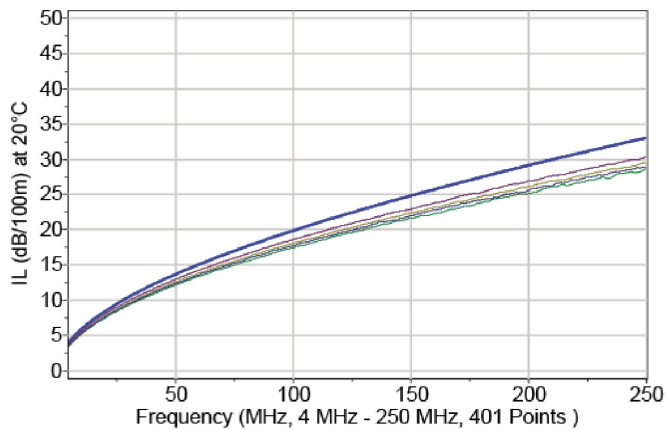
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-6-1
ANSI/TIA-568.2-D

TCL min. "Level 2"
Coupling attenuation "Type III"

VOIKABEL Cat 6 U/UTP

Data Cables

Frequency [MHz]	Attenuation [dB/100m] max.	NEXT [dB] max.	PS-NEXT [dB] max.	ACR [dB/100m] max.	PS-ACR [dB/100m] max.	ACR-F [dB/100m] max.	PS-ACR-F [dB/100m] max.	RL [dB]
1	2,1	75	72	72,9	69,9	68	65	20
4	3,8	66,3	63,3	62,4	59,4	56	53	23
10	6	60,3	57,3	54,3	51,3	48	45	25
16	7,6	57,2	54,2	49,6	46,6	43,9	40,9	25
31,25	10,8	52,9	49,9	42,1	39,1	38,1	35,1	23,6
62,5	15,5	48,4	45,4	32,9	29,9	32,1	29,1	21,5
100	19,9	45,3	42,3	25,4	22,4	28	25	20,1
250	33	39,3	36,3	6,3	3,3	20	17	17,3
300	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-



Part no.	Cable construction	Outer dia. approx. [mm]	Cu content [kg/km]	Cable weight [kg/km]	Sheath - Color	Packing [m]
	VOIKABEL Cat 6 U/UTP 4x2x23AWG	6	17	40	Grey (RAL 7001)	305