

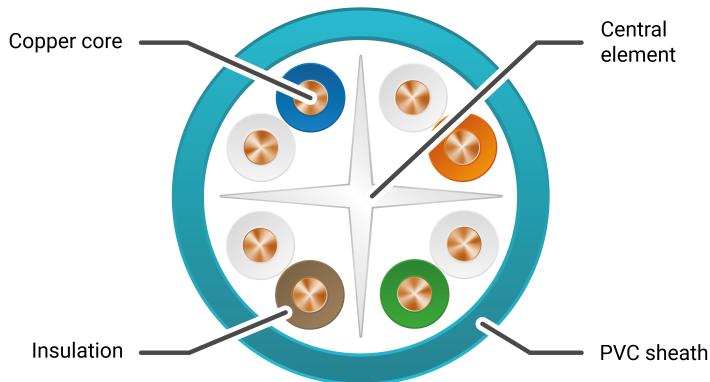
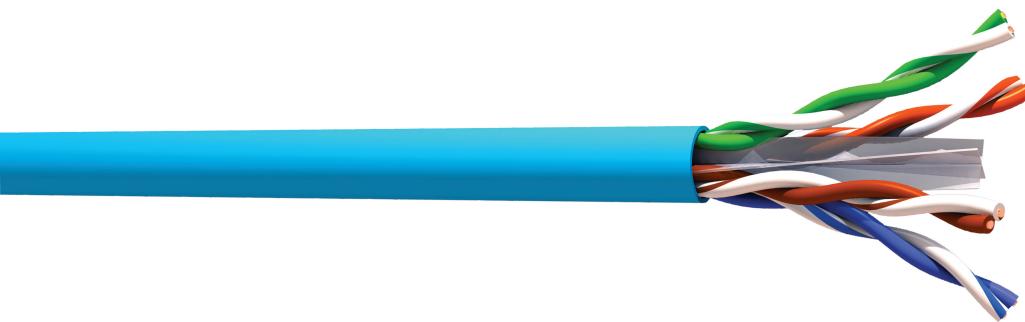
VG645

**CAT6 U/UTP 1x4P PVC Eca cable Drum of 500m**



## DESCRIPTION

U/UTP 4 pairs or 2x4 pairs cable, VG6xy, can be used in a horizontal or vertical configuration. It forms the basis for structured cabling and can support any type of IP application. The performances of VG6x exceed current standards. Used with Multimedia Connect connections, it will ensure compliance with Class E/CAT6 performance.



## ADVANTAGES

- Ensures compliance with E-Class / CAT6 link performances
- Electrical supply of equipments (camera, hotspot wifi, IP phone ...)



## CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	VG6xyyyyz
Core gauge	AWG23
Assembly type	Pairs
Outer Sheath Material	PVC
Color	Blue RAL 5024
Nom. diameter of the outer sheath (mm)	5.7
Ground drain presence	No
Shielding type	U/UTP
Insulation Color Code	Blue and White blue or White - Orange and White orange or White - Green and White green or White - Brown and White brown or White
Nominal insulation diameter (mm)	0,92

## ELECTRICAL CHARACTERISTICS

Loop resistance	170
Minimum insulation resistance	min_max_insulation_resistance_5000
Service Voltage (V)	<250Vdc
Linear electrical resistance (Ω/Km)	85
Mutual Capacity	< 45 pF
Capacity Imbalance	< 1600 pF/km

## TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	65
Delay skew	< 45
Unbalance resistance	< 2
Propagation speed (%)	69
Performance Category	Category 6
Data Transmission Standard	EIA/TIA 568-C.2 Cat6, EN 50173-1: 2011 Classe E, ISO 11801 Ed.3 Classe E
Characteristic Impedance (Ohms)	100
Conductor/Shield Capacitance	1,6 nF/km
Conductor/Conductor Capacitance	45 nF/km

## MECHANICAL CHARACTERISTICS

Bending Radius in Fixed Installation	8 x Ø ext
Bending Radius in Mobile Installation	15 x Ø ext

## ENVIRONMENTAL CHARACTERISTIC

CPR classification	Eca
Fire behaviour	IEC 60332-1
RoHS Compliance	Compliant with the RoHS directive
Component Standard	IEC 61156-5 Cat6

## ADDITIONAL INFORMATION

Product Packaging	Drum of 500m
Weight (Kg)	0.035

## TRANSMISSION PERFORMANCE

FREQUENCY (Mhz)	INSERTION LOSS (dB/100M)		NEXT (dB/100M)		PSNEXT (dB/100M)		ACR-F (dB/100M)		PSACR-F (dB/100M)		RETURN LOSS (dB/100M)	
	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value
4	-3,8	-3,7	-66,3	-86,8	-63,3	-83,8	-56,0	-83,0	-53,0	-80,0	-23,0	-37,8
10	-6,0	-5,9	-60,3	-83,0	-57,3	-80,0	-48,0	-72,7	-45,0	-69,7	-25,0	-42,0
16	-7,6	-7,6	-57,2	-77,3	-54,2	-74,3	-43,9	-70,2	-40,9	-67,2	-25,0	-43,6
25	-9,6	-8,5	-54,3	-72,9	-51,3	-69,9	-40,0	-69,4	-37,0	-66,4	-24,3	-33,3
31,25	-10,7	-10,7	-52,9	-74,8	-49,9	-71,8	-38,1	-65,7	-35,1	-62,7	-23,6	-36,9
62,5	-15,5	-15,1	-50,9	-66,5	-47,9	-63,5	-32,1	-56,1	-29,1	-53,1	-21,5	-42,6
100	-19,9	-19,3	-48,4	-71,4	-45,4	-68,4	-28,0	-51,6	-25,0	-48,6	-20,1	-37,0
125	-22,5	-21,7	-45,3	-66,8	-42,3	-63,8	-26,1	-51,7	-23,1	-48,7	-19,4	-34,5
155	-25,3	-24,2	-42,4	-64,4	-39,4	-61,4	-24,2	-49,8	-21,2	-46,8	-18,8	-35,0
200	-29,1	-27,6	-40,8	-60,6	-37,8	-57,6	-22,0	-45,7	-19,0	-42,7	-18,0	-37,0
250	-33,0	-31,1	-39,3	-61,3	-36,3	-58,3	-20,0	-46,5	-17,0	-43,5	-17,3	-37,9