

REF : VG6xSH

100 Ω U/UTP x pairs category 6 cable– 250 MHz
Low Smoke Zero Halogen

Ed. 1.2
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PRODUCT INFORMATIONS

Application

U/UTP (Unshielded twisted pairs) cable, which is used in a horizontal or vertical configuration (Backbone), it constitutes the base of a V.D.I. (Voice-Data-Image) network to very high bit rate.

Performances of this cable exceed the current standards, its use with connectors (MULTI6 CAT6 range) ensures a conformity with Class E channel.

This cable is used for transmission of digital and analogue voice, Data and video signals.

It can transmit :

- ISDN
- ETHERNET 10 Base T - *Ethernet*
- TOKEN RING 4/16 Mbits
- ETHERNET 100 Base Tx, 100 Base T4 – *Fast Ethernet*
- ETHERNET 1000 Base T – *Gigabit Ethernet*
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622Mbits/s and 1,2Gbits/s
- Draft : ETHERNET 10G Base T – 10 GIGABIT ETHERNET (Up to 55 m)
- IEEE 802.3af – Power Over Ethernet

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Standards / Performances

Performances of VG6xSH cable comply with the limits defined by the following standards:

CABLE	SYSTEM
IEC 61156 EN 50288-6-1	EN 50173 Edition 2 EIA/TIA 568-B.2-1 Category 6 ISO 11801 Edition 2 – CLASSE E EN 50173 Edition 2 – CLASSE E ISO/IEC – TR24057

Electrical properties

Max. linear resistance :	≤ 150 Ω / Km
Mutual capacity (nom.) :	45 pF / m
Characteristic impedance from 1 to 100 MHz :	100 +/- 15 Ω
from 100 to 250 MHz :	100 +/- 20 Ω
Velocity of propagation	69%

Characteristics



Fire behaviour : IEC 60332-1 / NF C 32070 C2



Operating temperature : - 20° C / + 70°C



Minimum bending radius: 8 x cable diameter



Conform to RoHS directive

Values

MEASUREMENTS (MHz)	ATTENUATION (dB/100 m)		NEXT (dB/100 m)		ACR (dB/100 m)		PS NEXT (dB/100 m)		ELFEXT (dB/100 m)		PSELFEXT (dB/100 m)		RETURN LOSS (dB/100 m)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
1	2.0	1.7	74.3	82	72.3	80	72.3	79	67.8	84	64.8	81	20.0	32
4	3.8	2.9	65.3	73	61.5	70	63.3	70	55.8	83	52.8	80	23.0	33
10	6.0	4.8	59.3	67	53.3	62	57.3	64	47.8	73	44.8	70	25.0	30
16	7.6	6.3	56.2	64	48.6	58	54.2	61	43.7	65	40.7	62	25.0	32
25	9.5	8.4	53.3	61	43.8	52	51.3	58	39.8	63	36.8	60	24.3	34
31.25	10.7	9.3	51.9	60	41.2	50	49.9	57	37.9	59	34.9	56	23.6	31
100	19.8	17.2	44.3	52	24.5	35	42.3	49	27.8	48	24.8	45	20.1	27
200	29.0	25.3	39.8	48	10.8	23	37.8	45	21.8	39	18.8	36	18	24
250	32.8	30.0	38.3	47	5.5	17	36.3	44	19.8	38	16.8	35	17.3	22

Standard: Values from IEC 61156-5 & EN50288-6-1

The installation & environmental requirements can modify the values above.

Multimedia Connect reserves the right to modify the present characteristics without preliminary notification

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MULTIMEDIA
CONNECT



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Ordering informations

 REF	Pairs	[X]xAWG	$\text{mm} \pm 10\%$  ext.	Kg/Km 	
VG64SH	4	23	6.5	43	T500m - T1000 m
VG68SH	2 x 4	23	6.5 x 13.5	89	T500m - T1000 m