VOYGAR CAT6A U/UTP 500MHz 4PR AWG 23/1 Eca LSOH CABLE Roll 500M Orange

Ref: V-C6A3UP57





Features

Data transmission cable for the frequency range up to 500MHz. unscreened data cable with good system reserves. For high quality requirements and all current data services as well as 10-gigabit Ethernet. Easy to install.
Use: IEEE 802.3: 10/100/1000/10GBase-T; FDDi, broadband, video, ISDN, ATM

Dimensions

Sheath thickness appr.	0.60mm
Diameter appr.	6.5mm
Cable weight ca.	52 kg/km
Copper index	20kg/km
Cable Length	500 m
Calorific potential	420MJ/km

Construction

Conductor	copper, solid, bare, AWG 23/1
Core insulation	PE
Core stranding	cores twinned to pairs, pairs laid up to Cable core
Sheath	PVC or halogen-free compound (FRNC)
Colour	Orange

Electrical Specifications

ANSI/TIA Category	6A
(Conductor) loop resistance max.	15Ω/100m
Insulation resistance min.	5GΩx km
Char. impedance 1 – 100 MHz	100 ±15 Ω
Char. impedance 100 – 250 MHz	100 ±22 Ω
Char. impedance 250–500MHz	100 ±25Ω
Mutual capacitance min.	50nF/km
Coupling attenuation ≤1000MHz min.	45dB
Mutual capacitance nom.	50 nF/km
Relative propagation velocity ca.	0.67 c
Test voltage	700 V-AC

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Thermal & mechanical property

Temperature range during installation	0°C to +50°C
Temperature range stationary	-20°C to +60°C
Min. bending radius under tensile load	8 x diameter
Min. bending radius without tensile load	4 x diameter
Maximum traction	90N

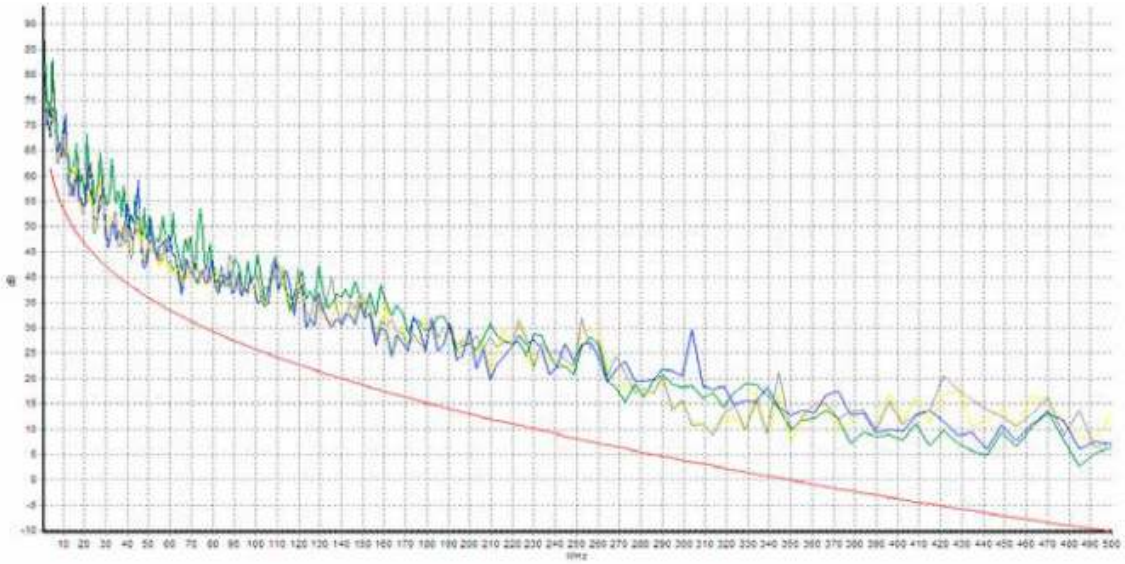
Standards

EN 50288-5-1 • EN 50288-11-1 • IEC 61156-5 • EN 50173-1 • ISO/IEC 11801 2. edition
IEC 60332-1 • EN 50575 • IEC 60754-2 • EN 61034 • IEC 61034
EN 13501-6 class Eca • RoHS 2011/65/EU • IEC 60811-2

Transmission characteristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSANEXT (dB)	ACR (dB/100m)	EL-FEXT (dB/100m)	RL (dB)
	NOM	NOM	NOM	NOM	NOM	NOM
1	1.8	87	67	85.2	85	24
4	3.5	76	67	72.5	72	27
10	5.6	72	67	66.4	63	30
16	7	70	67	63	60	30
20	7.9	68	67	60.1	58	30
31.25	9.9	66	67	56.1	54	30
100	18.2	63	62.5	44.8	43	30
155	22.9	60	59.6	37.1	40	28
200	26	57	58	31	38	27
300	32.3	55	55.3	22.7	36	25
400	35.7	54	53.5	18.3	35	23
500	39.8	53	52	13.2	34	22

ACR Power sum (dB/100m)



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