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

Ref: V-C6A3TL57





Features

Data cable for analogue and digital signal transmission in the frequency range up to 500 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring
Use: IEEE 802.3; 10/100/1000/10GBase-T, FDDI, broadband, video, ISDN, ATM, PoE

Dimensions

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

Construction

Conductor	copper, solid, bare, AWG 23/1
Core insulation	SFS-PE
Core stranding	cores twinned to pairs, pairs laid up to Cable core
Screen	drain wire; plastic-laminated aluminium foil
Sheath	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
Transfer impedance max. (10MHz)	30mΩ/m
Mutual capacitance min.	48nF/km
Screen attenuation ≤ 500MHz min.	60dB
Mutual capacitance nom.	50 nF/km
Relative propagation velocity ca.	0,74c

Stresemannstraße 23
10963 Berlin
Tel. 030 65774162
Fax. 030 700143-1359
E-mail: info@voygar.de
www.voygar.com

Test voltage	700 V-AC

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	100N

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 • RoHS 2002/95/EC
- RoHS2002/95/EC • IEC 60811-2

Transmission characteristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	EL-FEXT (dB/100m)	RL (dB)
	NOM	NOM	NOM	NOM	NOM
1	1.8	85	83	90	24
4	3,4	80	77	80	27
10	5.4	75	70	73	30
16	6.9	70	63	68	30
20	7.8	68	60	66	30
31.25	9.8	66	56	63	30
62.5	13.8	64	50	59	30
100	17.5	62	44	54	28
155	21.8	57	35	52	25
200	24.9	55	30	48	24
250	27.5	53	25	47	23
350	33.0	50	17	44	22
400	34,7	49	14	41	21
500	39.8	47	7	38	19

ACR Power sum (dB/100m)

