VOYGAR
QUALITY IS OUR CONCERN

VOYGAR CAT6A F/FTP 500MHz 4PR AWG 23/1 Dca Halogen-free compound (FRNC) CABLE Roll 500M Orange

Ref: V-C6A3FL57



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: in LANs: IEEE 802.3: 10/100/1000/10GBase-T; FDDI, broadband, video, ISDN, ATM, PoE, PoE+

Dimensions

Sheath thickness appr.	0.60mm
Diameter appr.	7.4mm
Cable weight ca.	58 kg/km
Copper index	22kg/km
Cable Length	500 m
Calorific potential	520MJ/km

Construction

Conductor	copper, solid, bare, AWG 23/1
Core insulation	SFS-PE
Core stranding	cores twisted to layers
Screen	pair screen (PIMF) (plastic-laminated aluminium foil); drain wire; overall screen: aluminium compound 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 nom.	45nF/km
Screen attenuation ≤ 500MHz min.	60dB
Mutual capacitance nom.	50 nF/km

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

Relative propagation velocity ca.	0,78c
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

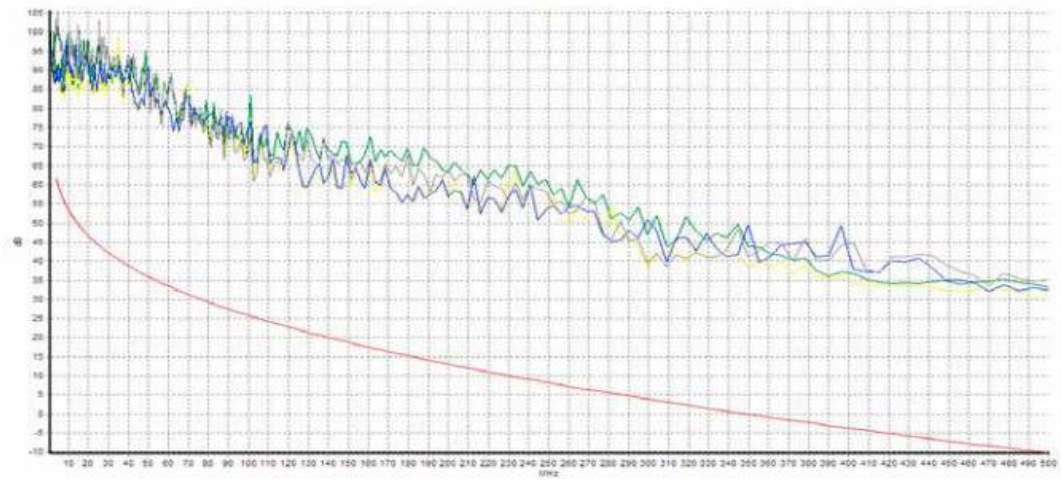
Standards

- 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	1.9	100	98.1	103	24
4	3,5	100	96.5	103	28
10	5.6	100	94.4	98	30
16	7.0	100	93.0	96	30
20	7.9	100	92.1	95	30
31.25	9.8	100	90.2	91	30
62.5	14.2	100	85.8	87	30
100	17.8	98	80.2	80	30
155	22.1	95	72.9	78	29
200	25.1	93	67.9	72	28
300	31.0	88	57.0	70	26
400	36,4	85	48.6	68	24
500	41.8	83	41.2	62	23

ACR Power sum (dB/100m)



Stresemannstraße 23
10963 Berlin

Tel. 030 65774162
Fax. 030 700143-1359

E-mail: info@voygar.de
www.voygar.com