

Part Number: APN_6A_01FL

Alphanet Cat6A F/UTP 4-pair LSZH 23AWG

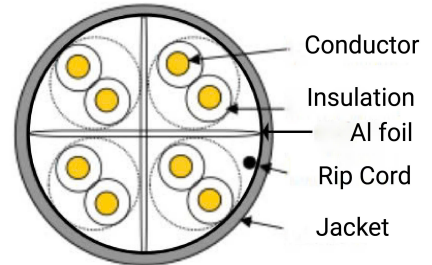
Description

Rated Temperature (°C) 65

Product standard

ANSI/TIA568.2-D IEC11801 YD/T1019 ISO 9001:2015

Application: transferring signals in a local area network



Performance

Structure

Conductor material	Bare copper
Conductor O.D	0.57±0.005mm
Insulation(mm)	PE
Average insulation thickness(mm)	0.35
Insulation thickness point(mm)	0.37
Insulation outer diameter(mm)	1.35±0.05mm
Shield	AL foil
Drain wire(mm)	0.5mmCCA
Inner shield	No
Jacket material	LSZH
Average thickness of sheath	≥0.6mm
The thinnest point of the sheath	≥0.5mm
Jacket O.D	7.3±0.2mm
Tear line	3*250D
G.W	14.5
Test request	Fluke test

Frequency (MHz)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)
1	20.0	2.1	78.0
4	23.0	3.8	66.3
8	24.5	5.2	78.0
10	25.0	5.8	60.3
16	25.0	7.3	57.2
20	25.0	8.2	57.2
25	24.3	9.2	53.0
50	22.2	13.0	50.2
100	20.1	15.8	45.3
200	18.0	26.5	40.8
250	17.3	29.7	39.3
350	17.32	35.4	37.2
400	17.3	38.0	36.4
500	17.32	42.8	34.8
Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)
1	72.3	78.0	75.0
4	63.3	78.0	75.0
8	63.3	77.2	74.2
10	57.0	75.3	72.3
16	54.2	71.2	68.2
20	45.0	69.3	66.3
25	45.0	67.3	64.3
50	45.0	61.3	58.3
100	45.4	72.4	55.3
200	37.9	49.3	46.3
250	36.4	47.3	44.3
350	34.2	44.4	41.4
400	33.4	43.3	40.3
500	31.9	41.3	38.3

Performance

1.0-500MHz Impedance (ohms)	100 ± 15
1.0-500MHz Propagation Delay Skew (ns/100m)	<=45
Unbalanced capacitance to ground(pF/100m)	<=330
Maximum DC resistance 20oC (ohms/km)	9.5
Umbalance Resistance (%)	<=5

Mechanical performance:

Testing items	Jacket
material	LSZH
Before Aging Tensile Strength (Mpa)	>=10
After Aging Elongation (%)	>=125
Aging Condition (oCxhrs)	100x168
Before Aging Tensile Strength (Mpa)	>=85%
After Aging Elongation (%)	Elongation>=50%

Color

insulation color
blue, white/blue
orange, white/orange
green, white/green
brown, White/Brown
jacket color: gray

Package

305m (1000ft)/Box
Box: 410x410x230mm
N.W.: 11.0kgs
G.W.: 11.50kgs
Stack: 6

History

Update and Revision: Revision Number: 0.38 Revision Date: 20-05-2026

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