

Description

The cable Structured by 23AWG Solid Annealed Bare Copper Conductor, Foam polyethylene Insulated twisted Pair , 4Pair Individually Screened by aluminum foil (Mylar tape), ATC Drain wire, Overall Mylar tape then Outer Jacket.

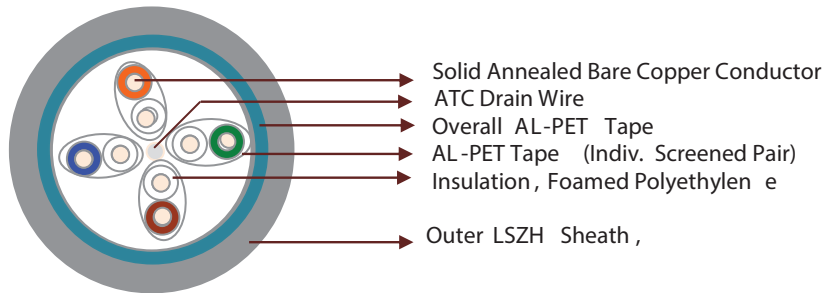
Application

1000 Base -T Gigabit Ethernet, 10G Base-T 10 Gigabit Ethernet, ATM, IEEE 802.3af and IEEE 802.3at for PoE+

Features

- Complied to TIA/EIA 568 C.2 , ISO/IEC 11801 2nd ed. & IEC 61156 -6 Category class 6a
- Cable Performance Specified up to 500 MHz
- Provided Drain wire for grounding.
- Individually Screened pairs.
- Double -Shielded (F/FTP) Cable.
- CE & RoHS Compliant
- Superior shielding performance
- Meet Alien Cross talk immunity Performance.

CABLE CONSTRUCTION & CROSS -SECTION



Conductor	23AWG Solid Annealed Bare Copper Conductor
Insulation	Foam Polyethylene, diameter- 1.35 mm (nom)
Pair Screening	Each pair wrapped with Aluminum/Polyester (Mylar) Tape,
Laid Up	Four Individually Screened pairs stranded into cable core.
Drain Wire	Annealed Tinned Copper Wire
Overall Screening	Mylar tape
Outer Sheathing	LSZH Compound, Colour: Orange
Cabl Diametere	7.8 ± 0.50 mm

Colour Code

Pair 1: White - Blue; Pair 2: White - Orange; Pair 3: White - Green; Pair 4 - White –Brown



COPPER SYSTEM

Electrical Characteristics

Conductor Resistance	Max.85 Ω/km
Nom Mutual Capacitance	56 nF/km
Propagation Delay @ 4,10,100 & 500MHz	Max. 552, 545,53 6 & 535 ns/100 m
Propagation Delay Skew 4	Max.30 ns/100 m
Velocity of propagation – 500MHz	76% (Nom.)
Characteristic Impedance:	100 ± 15Ω

TRANSMISSION PERFORMANCE ; Channel 70m cable @20 deg.

Freq (MHz)	Attenuation dB/100@20°C	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSAC RF (dB)	Return Loss (dB)
	Max.	Min.	Min.	Min.	Min.	Min.
1.0	2.3	65	62.0	63.3	60.3	19.0
4.0	4.2	63.0	60.5	51.2	48.2	19.0
8.0	5.8	58.2	55.6	45.2	42.2	19.0
10.0	6.5	56.6	54.0	43.3	40.3	19.0
16.0	8.2	53.2	50.6	39.2	36.2	18.0
20.0	9.2	51.6	49.0	37.2	34.2	17.5
25.0	10.2	50.0	47.3	35.3	32.3	17.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5
62.5	16.4	43.4	40.6	27.3	24.3	14.0
100	20.9	39.9	37.1	23.3	20.3	12.0
200	30.1	34.8	31.9	17.2	14.2	9.0
250	33.9	33.1	30.2	15.3	12.3	8.0
300	37.4	31.7	28.8	13.7	10.7	7.2
400	43.7	28.7	25.8	11.2	8.2	6.0
500	49.3	26.1	23.2	9.3	6.3	6.0

Mechanical & Environmental Properties

Bending Radius	Min 80 mm
Pulling Force	Max 100 N
Operating Temperature	-20° C to +60° C
Installation Temperature	0° C to +50° C
Flammability:	IEC 60332-1-2
LSZH Properties:	IEC 60332-1, 60754-1&2 and 61034

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
APC-4-C6AFFV	Apsys Networks Category 6A F/FTP 23 AWG 305m PVC Cable,Violet
APC-4-C6AFFG	Apsys Networks Category 6A F/FTP 23 AWG 305m PVC Cable,Grey
APCZH-4-C6AFFV	Apsys Networks Category 6A F/FTP 23 AWG 305m LSZH Cable,Violet
APCZH-4-C6AFFG	Apsys Networks Category 6A F/FTP 23 AWG 305m LSZH Cable,Grey

