



Product Code : **6A2312**

Ethernet, 10 GB Category 6A Cable, 4 Pair, U/UTP, LSZH Indoor CPR Eca

Product Description

Category 6A, Cable, 4-Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Polyethylene insulation, LSZH Jacket
Premise Horizontal Cable

TECHNICAL SPECIFICATION

Suitable Application Campus, Riser, Tertiary Cables, (horizontal & backbone) Building Cables,
IEEE 802.3an; 10Base-TX, 100BaseTX, 1000Base-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, IEEE 802.3af-2002: POE; 802.3at; POE+

Conductor

Element	Individual Shielded Pair
No. of Elements	8
Total Number of Pairs	4 Pairs
Size	23 AWG
Stranding	Solid
Material	BC-Bare Copper

Insulation

Material	PE-Polypropylene
Nominal Diameter (mm)	1.04 (0.041 in)
Color Code	White with Blue Strips & Blue White with Orange Strips & Orange White with Green Strips & Green White with Brown Strips & Brown

Outer Jacket

Material	LSZH (Flame Retardant)
Nominal Diameter (mm)	7.2 (0.28 in)
Overall Diameter (mm)	7.2 (0.28 in)

Cable Core

Description Separator	4 Pairs twisted together Center Member
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ELECTRICAL CHARACTERISTICS

Electrical

Max Conductor DCR	95 Ohm/km
Max Capacitance Unbalance	160 pF/100m
Max Mutual Capacitance	56 pF/m (17pF/ft)
Nominal Characteristics Impedance	100 Ohm
Nom Velocity of Propagation[VP] (%)	67%
Max Delay Skew	45 ns/100m
Voltage [V]	72 V DC

MECHANICAL CHARACTERISTICS

Installation Temp Range	-30°C to +90°C
Operating Temp Range	0°C to +80°C
Min Bend Radius Stationary	29 mm(1.1 in)
Min Bend Radius (mm)	58.0
Max Recommended Pulling Tension	110 N(25 lbf)
Bulk Cable Weight	50 kg/km

High Frequency

Frequency (MHz)	Attenuation (dB)	Next (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF	RETURN LOSS (dB)	DELAY (ns)
4	4.2	63	60.5	51.2	48.2	19	562
8	5.8	58.2	55.6	45.2	42.2	19	557
10	6.5	56.6	54	43.3	40.3	19	555
16	8.2	53.2	50.6	39.2	36.2	18	553
20	9.2	51.6	49	37.2	34.2	17.5	552
25	10.2	50	47.3	35.3	32.3	17	551
31.25	11.5	48.4	45.7	33.4	30.4	16.5	550
62.5	16.4	43.4	40.6	27.3	24.3	14	549
100	20.9	39.9	37.1	23.3	20.3	12	548
200	30.1	34.8	31.9	17.2	14.2	9	547
250	33.69	33.1	30.2	15.3	12.3	8	546
Frequency (MHz)	Attenuation (dB)	Next (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF	RETURN LOSS (dB)	DELAY (ns)
300	37.4	31.7	28.8	13.7	10.7	7.2	546
400	43.7	28.7	25.8	11.2	8.2	6	546
500	49.3	26.1	23.2	9.3	6.3	6	546

Part Number/Variants

Part Number	Type	Colour	Length in Meters	Packaging	Country
6A2312	ECA	BL: Blue	100	R: Reel	SA: Saudi Arabia
		GR: Grey	305	P: Pull Box	DB: Dubai
		BK: Black	500		
		RD: Red			
		YE: Yellow			
		PU: Purple			
		GN: Green			

STANDARDS & COMPLIANCE

Environmental Sustainability: Euro Class Eca

Flammability/Reaction to Fire: IEC 60332-1-2

CPR Compliance: CPR Euroclass Eca

European Directive Compliance: EU CE Mark, RoHS Compliant

Data Category: Category 6A

TIA/EIA Compliance: ANSI/TIA 568.2-D

ISO/IEC Compliance: ISO/IEC 11801-1



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