



Product Code : **6A2362**

Ethernet, 10 GB Category 6A Cable, 4 Pair, F/FTP, LSZH Indoor CPR Eca

Product Description

Category 6A Enhanced Cable, 4-Pairs, 23 AWG Solid Bare Copper Conductors, F/FTP, 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	S-FPE
Nominal Diameter (mm)	1.15±0.01
Color Code	Blue, White/Blue Orange, White/Orange Green, White/Green Brown, White/Brown

Outer Shield

Material	Al Foil (0.06 mm)
Drain Wire Type	26 AWG Tinned Copper

Cable Core

Description	4 Pairs twisted together
Separator	Center Member

Outer Jacket

Material	LSZH (Flame Retardant)
Nominal Diameter (mm)	7.0
Rip Cord	Yes

MECHANICAL CHARACTERISTICS

Installation Temp Range	-30°C to +60°C
Operating Temp Range	0°C to +50°C
Min Bend Radius During Installation (mm)	57.0
Max Recommended Pulling Tension	79 N(18 lbf)
Bulk Cable Weight	16 kg/ 305 m

ELECTRICAL CHARACTERISTICS

Electrical

Max Conductor DCR	95.0 Ohm/km
Max Capacitance Unbalance	160 pF/100m (Pair to Ground)
Max Mutual Capacitance	56 pF/m (17pF/ft)
Nominal Characteristics Impedance	100 Ohm
Nom Velocity of Propagation[VP] (%)	77%
Max Delay Skew	45 ns/100m
Voltage [V]	72 V DC

Electrical Characteristics

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB)	ACR (dB)	PSACR (dB)	ELFEXT (dB/100m)	Delay (ns/100m)
4	23.0	3.8	66.3	63.3	55.8	52.8	56.0	562.0
8	24.5	5.3	61.8	58.8	49.7	46.7	49.9	556.7
10	25.0	5.9	60.3	57.3	47.8	44.8	48.0	555.4
16	25.0	7.5	57.2	54.2	43.7	40.7	43.9	553.0
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB)	ACR (dB)	PSACR (dB)	ELFEXT (dB/100m)	Delay (ns/100m)
20	25.0	8.4	55.8	52.8	41.8	38.8	42.0	552.0
25	24.3	9.4	54.3	51.3	39.8	36.8	40.0	551.2
31.25	23.6	10.5	52.9	49.9	37.9	34.9	38.1	550.4
62.5	21.5	15.0	48.4	45.4	31.9	28.9	32.1	548.6

100	20.1	19.1	48.3	42.3	27.8	24.8	28.0	547.6
200	18	27.6	40.8	37.8	21.8	18.8	22.0	546.5
250	17.3	31.1	39.3	36.3	19.8	16.8	20.2	546.3
300	17.3	34.3	38.1	35.1	18.3	15.3	18.5	546.1
400	17.3	40.1	36.3	33.3	15.8	12.8	16.0	545.8
500	17.3	45.3	34.8	31.8	13.8	10.8	14.0	548.6

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 5E

TIA/EIA Compliance: ANSI/TIA 568B

ISO/IEC Compliance: ISO/IEC 11801-1

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