



Product Code : 6X2312

Ethernet-Category 6 Cable, 23 AWG, 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(1-250 MHz)

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
Materials	BC-Bare Copper

Insulation

Material	PE-Polypropylene
Nominal Diameter (mm)	0.96±0.03
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)	5.80±0.30
Overall Diameter (mm)	5.80±0.30

Cable Core

Description	4 Pairs twisted together
Separator	Center Member

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 +60°C
Operating Temp Range	0°C to +50°C
Min Bend Radius During Installation (mm)	46.0
Min Bend Radius Stationary (mm)	23.0 (0.91 in)
Max Recommended Pulling Tension	80 N(18 lbf)
Bulk Cable Weight	37 kg/km

Performance

Electrical Characteristics

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	Next (dB)	ACR (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSEFEXT (dB/100m)	Delay (ns/100m)
1	20.0	2.0	65.3	63.0	62.3	63.8	60.8	570.0
4	23.0	3.8	66.3	52.0	53.3	56.0	53.0	552.0
8	24.5	5.3	61.8	46.0	48.8	49.9	46.9	547.0
10	25.0	6.0	60.3	44.0	47.3	48.0	45.0	545.0
16	25.0	7.6	57.2	39.0	44.3	43.9	40.9	543.0
20	25.0	8.5	55.8	37.0	42.8	42.0	39.0	542.0
25	24.3	9.5	54.3	34.0	41.3	40.0	37.0	541.0
31.25	23.6	10.7	52.9	31.0	39.9	38.0	35.1	540.0
62.5	21.5	15.4	48.4	21.0	35.4	32.1	29.1	539.0
100	20.1	19.8	45.3	13.0	32.3	28.0	25.0	538.0
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	Next (dB)	ACR (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSEFEXT (dB/100m)	Delay (ns/100m)
200	18.0	29.0	40.8	37.8	21.8	22.0	19.0	537.0
250	17.3	32.8	39.3	36.3	19.8	20.0	17.0	536.0

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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