



Product Code : **5E2412**

Ethernet-Category 5e Cable, 4 Pairs, 24 AWG, U/UTP, LSZH Indoor CPR Eca

Product Description

Category 5e, Cable, 4-Pairs, 24 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 Pair
No. of Elements	8
Total Number of Pairs	4 Pairs
Size	24 AWG
Stranding	Solid
Material	BC-Bare Copper

Insulation

Material	PE-Polypropylene
Nominal Diameter (mm)	0.90±0.05
Color Code	Blue, White/Blue Orange, White/Orange Green, White/Green Brown, White/Brown

Outer Jacket

Material	LSZH (Flame Retardant)
Nominal Diameter (mm)	4.6±0.05
Rip Cord	Yes

Cable Core

Description	4 Pairs twisted together
Separator	Center Member

ELECTRICAL CHARACTERISTICS

Electrical

Max Conductor DCR 20°C	93.8 Ohm/km
Max Capacitance Unbalance	330 pF/100m (Pair to Ground)
Max Mutual Capacitance	56 pF/m (17pF/ft)
Nominal Characteristics Impedance	100 Ohm
Nom Velocity of Propagation[VP] (%)	70%
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 Min (mm)	40.0
Max Recommended Pulling Tension	65 N(15 lbf)
Bulk Cable Weight	10 kg / 305 m

Performance

Electrical Characteristics:

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	Next (dB)	ACR (dB)
0.772	19.4	1.8	67.0	65.0
1	20.0	2.0	65.3	63.0
4	23.0	4.1	56.3	52.0
8	24.5	5.8	51.8	46.0
10	25.0	6.5	50.3	44.0
16	25.0	8.2	47.3	39.0
20	25.0	9.3	45.8	37.0
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	Next (dB)	ACR (dB)
25	24.3	10.4	44.3	34.0
31.25	23.6	11.7	42.9	31.0
62.5	21.5	17.0	38.4	21.0

100	20.1	22.0	35.3	13.0
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Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (db/100m)	Delay (ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	238.6
100	32.3	23.8	20.8	537.6

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 568C

ISO/IEC Compliance: ISO/IEC 11801-1



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