



Product Code: 5E2422

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

Product Description

Category 5e, Cable, 4-Pairs, 24 AWG Solid Bare Copper Conductors, F/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)	1.0±0.05
Color Code	Blue, White/Blue Orange, White/Orange Green, White/Green Brown, White/Brown

Outer Shield

Material	Al Foil (0.06 mm)
Drain Wore Type	26 AWG TC

Cable Core

Description	4 Pairs twisted together
Separator	Center Member

Outer Jacket

Material	LSZH (Flame Retardant)
Nominal Diameter (mm)	6.0
Rip Cord	Yes

MECHANICAL CHARACTERISTICS

Temperature Range	-30°C to +60°C
Min Bend Radius (mm)	48.0
Max Reccomended Pulling Tension	17.2 kg

ELECTRICAL CHARACTERISTICS

Electrical

Max Conductor DCR	95.0 Ohm/km
Max Capacitance Unbalance	330 pF/100m (Pair to Ground)
Max Mutual Capacitance	56 pF/m
Nominal Characteristics Impedance	100 Ohm
Nom Velocity of Propagation[VP] (%)	69%
Max Delay Skew	45 ns/100m
Voltage [V]	72 V DC

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
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	Next (dB)	ACR (dB)
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

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

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 568B

ISO/IEC Compliance: ISO/IEC 11801-1

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