



Product Code : 7A2372

Ethernet Enhanced Category 7 Cable, 23 AWG, 4 Pair, S/FTP, LSZH Indoor CPR Dca

Product Description

Enhanced Premise Horizontal Category 7 Cable (1-1000 MHz), 23 AWG 4-Pair, solid BC conductors, S/FTP, Foam Polyethylene Insulation, each pair shield, overall tinned copper braid shield. LSZH jacket.

TECHNICAL SPECIFICATION

Suitable Application Campus, Riser, Tertiary Cables, horizontal & backbone Building Cables,
IEEE 802.3an, 10Base-T,100Base-TX, 1000Base-T,10Gbase-T. IEEE802.5 16MB:ISDN: TPDD: ATM, IEEE 802.3af-2002: POE: IEEE802.3at:POE +:

Conductor

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

Insulation

Element	Individual Shielded Pair
Material	PE - Polyethylene skin-Foam
Nominal Diameter (mm)	1.35 ± 0.1 x2C Twist
Color Code	Blue/White, Green/White Orange/White, Brown/White

Outer Shield

Shield Type	Braid
Material	TC - Tinned Copper
Coverage	30%

Inner Shield

Element	Individual Shielded Pair
Shield Type	Tape
Material	Al-PET (on each conductor)
Coverages	>=115%

ELECTRICAL CHARACTERISTICS

Electrical

Element	Pairs
Max Conductor DCR @20 °C(Ohm/km)	≤ 85
Approx. Velocity Ratio	76%
Nominal Impedence (Ohm)	100 Ohm
Voltage Rating	72 V DC

Outer Jacket

Material	LSZH
Nominal Diameter (mm)	7.4±0.4
Rip Cord	Yes

Mechanical Characteristics

Operating Temperature	-30°C to +60°C
Max Pull Tension	85 N
Bulk Cable Weight	47 kg/km

Performance

Frequency (MHz)	Attenuation (dB/100m) Max	NEXT (dB) Min.	PSNEXT (dB) Min	Return Loss (dB) Min
4.0	3.7	78.0	75.0	23.0
10.0	5.9	78.0	75.0	25.0
16.0	7.4	78.0	75.0	25.0
31.3	10.4	78.0	75.0	23.6
62.5	14.9	75.5	72.5	21.5
100.0	19.0	72.4	69.4	20.1
250.0	31.0	66.4	63.4	17.3
500.0	45.3	61.9	58.9	17.3
600.0	50.1	60.7	57.7	17.3
900.0	63.0	58.1	55.1	13.4
1000.0	66.9	57.4	54.4	13.1
Frequency (MHz)	ACR-F (dB/100m) Min	PSACR-F (dB/100m) Min	ACR-N (dB/100m) Min	PSACR-N (db/100m) Min
4.0	78.0	75.0	74.3	71.3
10.0	78.0	75.0	72.1	69.1
16.0	71.2	68.2	70.6	67.6

31.3	65.4	62.4	67.6	64.6
62.5	59.4	56.4	60.6	57.6
100.0	55.3	52.3	53.4	50.4
250.0	47.3	44.3	35.5	32.5
500.0	41.3	38.3	16.7	13.7
600.0	39.7	36.7	10.6	7.6
900.0	36.2	33.2	4.9	-7.9
1000.0	35.3	32.3	9.5	-12.5

Note 1: Data above 600 MHz is for reference only

Maximum Conductor DC Resistance at 20 °C (Ω/Km)	<85
Rated Temperature (°C)	60
Velocity Ratio	approx 76%
Impedance(Ω)	
	1-100MHz 100±15
	100-250MHz 100±20
	250-600MHz 100±25
	500-1000MHz 100±30

Note: All delivered cables must pass Dca -s2,d2,a1 sample test according EN 50399, EN 50575

Fire Performance EN 60332-1-2,EN 50399

Smoke Density: EN61034-2

Halogen Free: EN 60754-2

EN 50575

Notified Body No.: 1014

STANDARDS & COMPLIANCE

Indoor-Euroclass Eca, Non Halogen

CPR Euroclass ECA: IEC 60332-1-2

IEC 61034-2 Smoke Density Min Transmittance = 60%

IEC 62821-1 Halogen Free Compliance = Yes

UL Number E535337

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