

CAT.7 Cable, S/FTP, LSZH, 4 Pair, AWG 23, Indoor 305 Mtr

Product Description

CAT 7 (600MHz), 4-Pair, S/FTP shielded, Premise Horizontal Cable, 23 AWG solid bare copper conductors, Foam Polyolefin insulation, each pair with shield, overall tinned copper braid shield (30% coverage), LSZH jacket (passes bundle flame test IEC60332-3-24)

Technical Specifications

Product Overview

Suitable Applications: Horizontal and building backbone cable; Support current and future Category 6a and 7 applications, such as: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4
Conductor Count:			8
Total Number of Pairs:			4

Insulation

Type	Material	Nominal Diameter
Dielectric	PO - Polyolefin (Foam)	1.45 mm
Bonded-Pair:	No	

Color Chart

Number	Color
Pair 1	White & Blue
Pair 2	White & Orange
Pair 3	White & Green
Pair 4	White & Brown

Inner Shield Material

Type	Material	Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	100%
Table Notes:	Aluminum facing outside	

Outer Shield Material

Type	Material	Min. Coverage [%]
Braid	Tinned Copper (TC)	30%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.8 mm	0.3 mm	Yes

Construction and Dimensions

Min Elongation at Breakof Conductors:	10 %
Min Elongation at Breakof Insulation:	100 %
Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	9 MPa



Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max DCR Unbalanced Between Pairs [%]	Max. DCR Unbalanced Within Pair [%]
95 Ohm/km	4 %	2 %

Capacitance

Max. Capacitance Unbalance	Max. Mutual Capacitance
1,600 pF/m	56 pF/m

Impedance

Nominal Characteristic Impedance
100 Ohm

Current

Max. Recommended Current [A]
1.5 Amps per Conductor

Voltage

Voltage Rating [V]
72 V

Temperature Range

Installation Temp Range:	0°C To +50°C
Operating Temp Range:	-30°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	62 kg/km
Max. Pull Tension:	85 N
Min Bend Radius During Installation:	64 mm
Min Bend Radius During Operation:	32 mm

Standards

IEC Compliance:	ISO/IEC 11801-1
CPR Euro class:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50173-1
Data Category:	Category 7
ANSI Compliance:	ANSI/TIA 568.2-D (2018)
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Burning Load:	750 kJ/m
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	IEC 61034-2

Part Number

Part No.	Description
ANC7SFTPgy23-305MT-LSZH	Cat 7 Cable, S/FTP, LSZH, 4 Pair, AWG 23, Indoor 305 Mtr