

Cat6a Premium Pro Series

U/UTP LSZH

(EU/EMEA EuroClass: Dca)














Description

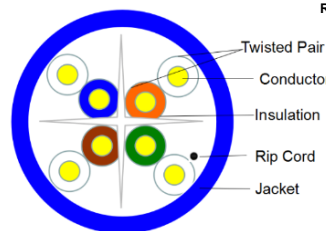
Cat6a Premium LSZH - Enhanced 600MHz ETL Verified 23+ AWG Solid BC, 4PR, U/UTP, Pair Separator, Class Ea, HDBaseT Enhanced, PoE Type 3/4 60W/90W, CPR EuroClass: Dca-s2,d2,a1 LSZH Jacket, Reel in Box

Key Features

- 
Higher Copper Content
- 
Wire Gauge Diameter
- 
Highest Bandwidth
- 
Higher PoE Performance
- 
ETL Verified
- 
Low Smoke Zero Halogen
- 
EuroClass Rated
- 
Limited Lifetime Warranty

Applications

-  Networking Data Storage
-  Digital Signage
-  Video Conferencing
-  LED Lighting
-  Gaming Low Latency
-  Networking Router
-  Surveillance Camera
-  Extenders/AV over IP
-  WiFi Edge Devices
-  Networking Edge Devices
-  VoIP Telephone
-  Ethernet Lan
-  POS Terminals



Construction

Conductor	Material	Bare Copper	Shielding/Screen	Type	Unshielded	
	Solid/Stranded	Solid		Material	na	
	Size	23+ AWG		Drain Wire	None	
	Insulation Material			Jacket/Sheath	Material	PVC
	Insulation Thickness	0.240mm			Nominal Jacket Thickness	0.7mm avg
	Color Code	Per ANSI/TIA 568.2-D	Color Code	Per Request		
	Twisted Pair	4P/2 Cores to Pair				
	Insulated Conductor OD	1.05mm				
Pair Separator/Spline	Material	HDPE	Overall Cable Diameter (OD)	7.1mm		
	Spline OD	5.2mm				
Rip Cord	Yes, Nylon					

Mechanical Properties


Bend Radius	Min Bend Radius (Installation)	8x Outer Diameter
	Min Bend Radius (Operation)	4x Outer Diameter
Maximum Pulling Tension		
Insulation Tensile Strength	Unaged / Elongation %	12.3Mpa / 150%
		9.8Mpa / 100%
Jacket/Screen Tensile Strength	Unaged / Elongation %	13.8Mpa / 100%
	Aged / Elongation %	11.7Mpa / 50%
Cable Cold Bend (-20°C for 4 hrs)	No Crack	

Environmental Parameters

Temperature Range - Operating	-20°C to 75°C (-4°F to 167°F)
Temperature Range - Installation	0°C to 40°C (32°F to 104°F)
Temperature Range - Storage	0°C to 40°C (32°F to 104°F)

Environmental Compliance

RoHS Compliant: RoHS II/III, EU/UK RoHS
 REACH, WEEE Directive, WFD:2023, SCIP:2023, POPs (EU) No 2019/1021
 Reel in Box – Made with recyclable materials

 California Prop 65 Warning – California Residents Only
 WARNING: This Product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information: www.P65Warnings.ca.gov

Rev. 0425ZH

Electrical Characteristics

Bandwidth per TIA Standard	500MHz	Capacitance Unbalance pair-to-ground	Max 3300 pf/km
Maximum Bandwidth as Tested	600MHz	Characteristic Impedance	100 +/- 15 Ohm
Conductor Resistance (at 20°C)	Max 93.8 Ohm/km	Nominal Velocity of Propagation % (NVP)	67-69
Dielectric Strength	Min AC1.5KV	Rated Voltage	Insulated 300V
Spark Test	2.5KV		Operating Low Voltage 80V
AC Leakage Current thru Jacket/Screen	na	Delay Skew	Max 45ns / 100m
Resistance Unbalance	Max 5%	PoE Rating	802.3bt Type 3/4 60W/90W
Insulation Resistance	Max 93.8 Ohm/km	Transverse Conversion Loss (TCL)	30 – 10log(f / 100) @1-500MHz
Mutual Capacitance	5600pF/100m		

Standards Reference

Manufactured in Accordance to: ANSI/TIA 568.2-D, ISO/IEC 11801 Class Ea, EN 50288-5-1, ISO/IEC 61156-5, EN 50173-1, EN 50288-6-1

EN50575 CPR EuroClass: Dca-s2,d2,a1

Reaction to Fire: BS EN 13501-6; EN ISO 1716; EN 50399, BS EN 60332-1-2; BS EN 61034-2; BS EN 60754-1&2

Power Over Ethernet (PoE): IEEE 802.3bt Type 3/4 60W/90W

Power Over HDBaseT (PoH): Yes

3rd Party Certification: ETL Verified

Cable Jacket Markings

Structured Cable Products --- CAT6A-PREM-LS --- Cat6a LSZH Premium Series Enhanced 600 MHz ETL Verified U/UTP 4PR 23+ AWG SOL BC 75°C ANSI/TIA 568.2-D ISO/IEC 11801 Class Ea HDBaseT Enhanced EN50575 Dca-s2,d2,a1 LSZH JKT CE UKCA RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 *** Feet (or Meters) MM/YYYY

Above jacket markings are an example for reference purposes. All SCP jacket markings include descending feet or meter markings and our industry leading zone and outlet legend for easy cable identification during installation.

Performance Data*

Bandwidth MHz	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)		RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	2.1	1.9	74.3	80.3	72.3	76.6	72.3	78.4	20	23.6	67.8	75.6	64.8	73.3	70.3	74.7
4	3.8	3.7	65.3	75.6	63.3	74.2	61.5	71.9	23	23.9	55.8	61.3	52.8	60.1	59.5	70.5
8	5.3	5.1	60.8	66	58.8	65.1	55.5	60.9	24.5	30	49.7	55.7	46.7	54.8	53.5	60
10	5.9	5.8	59.3	67.6	57.3	65.9	53.3	61.8	25	28.5	47.8	55.2	44.8	53.2	51.3	60.1
16	7.5	7.4	56.2	70.8	54.2	67.2	48.6	63.4	25	28.2	43.7	49.7	40.7	48.1	46.6	59.8
20	8.4	8.2	54.8	71.9	52.8	69.1	46.3	63.7	25	27.8	41.8	48.1	38.8	46.2	44.3	60.9
25	9.4	9.1	53.3	62.3	51.3	60.8	43.8	53.2	24.3	27.5	39.8	45.9	36.8	45	41.8	51.7
100	19.1	18.8	44.3	60	42.3	58	24.5	41.2	20.1	23.5	27.8	35	24.8	33.2	22.5	39.2
200	27.6	27.4	39.8	57.5	37.8	56	10.8	30.1	18	23.2	21.8	32.8	18.8	30.2	8.8	28.6
250	31.1	29.4	38.3	55.8	36.3	54.1	5.5	26.4	17.3	21.5	19.8	30.7	16.8	27.7	3.5	24.7
300	34.3	33.3	37.1	54.2	35.1	53.4	0.7	20.9	16.8	20.8	18.3	26.5	15.3	25.4	---	---
400	43	38.6	35.3	53.8	33.3	52.1	---	---	15.9	18.9	15.8	23.4	12.8	22.1	---	---
500	45.3	43.9	33.8	51	31.8	49.3	---	---	15.2	18.6	13.8	19.5	10.8	18.7	---	---
600	50.1	48.2	32.6	45.5	30.6	43.6	---	---	14.7	17.3	12.2	18.5	9.2	16.6	---	---

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Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weight	Item Dimensions (mm)
North America:						
Not available at this time						
EU (EMEA):						
CAT6A-PREM-LS-BL	810093726554	Blue	1000ft/305m	Reel in Box	17.4kg/38.36lb	383x323x435
CAT6A-PREM-LS-BK	810093728220	Black	1000ft/305m	Reel in Box	17.4kg/38.36lb	383x323x435
CAT6A-PREM-LS-GN	810093726561	Green	1000ft/305m	Reel in Box	17.4kg/38.36lb	383x323x435
CAT6A-PREM-LS-RD	810093726707	Red	1000ft/305m	Reel in Box	17.4kg/38.36lb	383x323x435
CAT6A-PREM-LS-VL	810093726578	Violet	1000ft/305m	Reel in Box	17.4kg/38.36lb	383x323x435