Cat6a Premium
Shielded U/FTP LSZH
(EU/EMEA EuroClass: Dca)

Key Features

- 600MHz Class Ea Bandwidth Performance
- PoE Rated 30W/60W
- 3rd Party ETL Verified
- LSZH for Higher Fire Safety
- CPR EuroClass: Dca-s2,d2,a1
- Limited Lifetime Warranty
  Details at www.scpcat5e.com/warranties

- SCP Eco Reel-in-Box or Wooden Spool
- Uses Wood/Cardboard Spool Inside Box, No Plastic
- Reinforced handles for improved performance
- Environmental Friendly
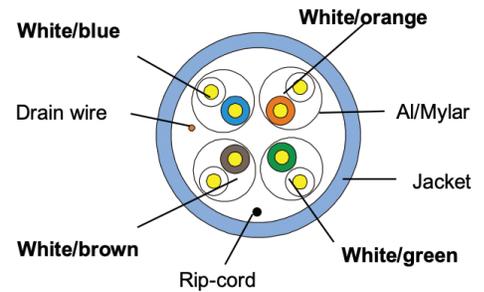- Recyclable & Reusable

Description

Cat6a Premium Shielded LSZH Dca - Enhanced 600Mhz ETL Verified 23+ AWG Solid BC, 4PR, U/FTP, Class Ea, HDBaseT Enhanced, PoE Type 3/4 60W/90W, CPR EuroClass: Dca-s2,d2,a1 LSZH Jacket

Applications

Supports all Category 6a and Class Ea applications including structured cabling for horizontal and building backbone, Ethernet 10/100/1000/10GBASE-T, indoor use, fixed installations, Power Over Ethernet (PoE), and other high bandwidth applications.

White/blue
White/orange
Drain wire
Al/Mylar
Jacket
White/brown
White/green
Rip-cord

Construction

Conductor	Material	Bare Copper
	Solid/Stranded	Solid (0.56+)
	Size	23+ AWG
	Insulation Material	Skin-foam-skin PE
	Insulation OD	0.38mm
	Color Code	Per ANSI/TIA 568.2-D
	Twisted Pair	4P/2 Cores to Pair
	Insulated Conductor OD	1.32+/-0.05mm

Pair Separator/Spline	Material	na
	Spline OD	na

Rip Cord	Yes, Nylon	

Shielding/Screen	Type	Each Pair Shielded
	Material	AL Foil PET Tape
Drain Wire	Tinned Copper	0.40+/-0.01mm
Jacket/Sheath	Material	LSZH
	Nominal Jacket Thickness	0.55mm avg
	Color Code	Per Request
Overall Cable Diameter (OD)	7.4±0.4mm	

Mechanical Properties

Bend Radius	Min Bend Radius (Installation)	8x Outer Diameter
	Min Bend Radius (Operation)	4x Outer Diameter
Maximum Pulling Tension	85N	
Insulation Tensile Strength	Unaged / Elongation %	12.3Mpa / 150%
	Aged / Elongation %	9.8Mpa / 100%
Jacket/Screen Tensile Strength	Unaged / Elongation %	10.0Mpa / 100%
	Aged / Elongation %	8.0Mpa / 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, UKCA
REACH, WEEE Directive, WFD:2023, SCIP:2023, POPs (EU) No 2019/1021
Reel-in-Box – Made with recyclable materials. No plastic.
Wood Spool – 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. 0525ZZ

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	**Coupling Attenuation**	≥55dB @30-100MHz
Dielectric Strength	Min AC 1.5KV	**Nominal Velocity of Propagation % (NVP)**	≥74-78
Spark Test	2.5KV	**Rated Voltage**	Insulated 300V
AC Leakage Current thru Jacket/Screen	na		Operating Low Voltage 80V
Resistance Unbalance	Max 5%	**Delay Skew**	Max 45ns / 100m
Insulation Resistance	min 5000MΩ.km	**PoE Rating**	802.3bt Type 3/4 60W/90W
Mutual Capacitance	5600pF/100m	**Transverse Conversion Loss (TCL)**	30 − 10log(f /100) @1-500MHz

Standards Reference

Manufactured in Accordance to: ANSI/TIA 568.2-D, ISO/IEC 11801 Class E, EN 50288-5-1, ISO/IEC 61156-5, EN 50173-1, EN 50288-6-1, EN 50575

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 --- (Part Number) --- Cat6a Shielded Premium Series LSZH Dca Enhanced 600 MHz ETL Verified U/FTP 4PR 23[+] AWG SOL BC 75°C ANSI/TIA 568.2-D ISO/IEC 11801 Class Ea IEEE 802bt Type 3/4 60W/90W 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	–––	–––

*SCP Cat6 Premium Cables exceed industry transmission requirements at 20°C as per ANSI/TIA 568 and IEC 61156-5 Ed 2.

Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weigth	Item Dimensions (mm)
North America:						
HNCPROPLUS-6A-LSZH	817777011241	Ice Blue	1000ft/305m	Wood Spool	18.5kgs/40.785lbs	360x270x160
HNCPROPLUS-6A-LSZH-BK	817777019346	Black	1000ft/305m	Wood Spool	18.5kgs/40.785lbs	360x270x160
EU (EMEA):						
CAT6A-U/FTP-LSZH-BL-D	817777012064	Blue	1000ft/305m	Wood Spool	18.5kgs/40.785lbs	360x270x160
HNCPROPLUS-6A-LSZH-BK	817777019346	Black	1000ft/305m	Wood Spool	18.5kgs/40.785lbs	360x270x160
HNCPROPLUS-6A-LSZH-BL-D-BX	817777019759	Blue	1000ft/305m	Reel-in-Box	19.0kgs/43.650lbs	383x323x435
CAT6ASH-PREM-LS-BL	810093728213	Ice Blue	1000ft/305m	Reel-in-Box	19.0kgs/43.650lbs	383x323x435