

Cat6 Premium

U/UTP LSZH

(EU/EMEA EuroClass: Dca)

Key Features

- 550MHz Class E Bandwidth Performance
- Larger 23+ AWG Bare Copper
- Higher PoE Performance Type 3/4 60W/90W
- LSZH for Higher Fire Safety
- ETL Verified
- EuroClass: Dca-s2,d2,a1
- Limited Lifetime Warranty**
- Reelex II Tangle-Free Box
- Strong, Lightweight, Resilient*
- Environmental Friendly
- Recyclable & Reusable
- Up to 39% Less Waste Volume
- Ideal of Yachts or other Low Smoke Installations
- Industry Leading Zone and Outlet Legend

**Details at www.scpcat5e.com/warranties

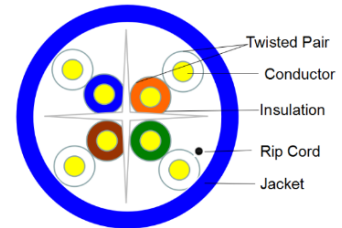
*Damaged boxes still dispense perfectly

Description

Dca Rated LSZH Cat6 Enhanced 550Mhz 23+awg Solid BC, 4PR, UTP, ANSI/TIA-568.2-D, EN50173-1, ISO/IEC 11801 Class E, IEEE 802.3bt Type 3/4 PoE 60W/90W, EN50575 Dca-s2,d2,a1 - Low Smoke Zero Halogen Jacket

Applications

Supports all Category 6 and Class E 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.



Construction

Conductor	Material Solid/Stranded Size Insulation Material Insulation OD Color Code Twisted Pair Insulated Conductor OD	Bare Copper Solid (0.57) 23+ AWG HDPE 1.05 +/- 0.05mm Per ANSI/TIA 568.2-D 4P/2 Cores to Pair 1/0.57 +/- 0.005mm	Shielding/Screen	Type Material	Unshielded na
			Drain Wire	None	
			Jacket/Sheath	Material Nominal Jacket Thickness Color Code	FR_LSZH 0.55 +/- 0.05mm Per Request
Pair Separator/ Spline	Material Spline OD	PE 4.2*4.2*0.5mm	Overall Cable Diameter (OD)	6.3 +/- 0.20mm	
Rip Cord	Yes, Nylon				

Mechanical Properties

Bend Radius	Min Bend Radius (Installation) Min Bend Radius (Operation)	50.4mm 25.2mm
Maximum Pulling Tension	85N	
Insulation Tensile Strength	Unaged / Elongation %	16.0Mpa / 300%
Jacket/Screen Tensile Strength	Unaged / Elongation % Aged / Elongation %	13.8Mpa / 100% 13.8Mpa / 45%
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
Reelex II – 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	250MHz	Capacitance Unbalance pair-to-ground	330pt/100M
Maximum Bandwidth as Tested	550MHz	Characteristic Impedance	100 +/- 15
Conductor Resistance (at 20°C)	8.0Ω/100M	Nominal Velocity of Propagation % (NVP)	66%
Dielectric Strength	Min AC1.5KV	Rated Voltage	Insulated 300V
Spark Test	2.0KV		Operating Low Voltage 80V
AC Leakage Current thru Jacket/Screen	1.5KV 50Hz 1min / 2.5KV 2s	Delay Skew	≤ 45ns / 100m
Resistance Unbalance	5%	PoE Rating	802.3bt Type 3/4 60W/90W
Insulation Resistance	≥5000MΩ·km	Transverse Conversion Loss (TCL)	1~250MHz ≥ 40.0-10x1g (f)
Mutual Capacitance	≤56nF/km		

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): HDBaseT Recognized 3rd Party Certification: ETL Verified
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Cable Jacket Markings

Structured Cable Products --- CAT6-LSZH-XX --- Cat6 Premium LSZH - 550MHz U/UTP ANSI/TIA 568.2-D ISO/IEC 11801 Class E ETL Verified CMR FT4 75°C 4PR 23+AWG SOL BC EN50575 Dca-s2,d2,a1 LSZH JKT CE 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	2.03	1.73	74.3	89	72.3	86.18	72.3	78.4	20	26.36	67.8	75.6	64.8	73.3	70.3	74.7
4	3.78	3.5	65.27	77.65	63.27	75.21	61.5	71.9	23.01	32.34	55.8	61.3	52.8	60.1	59.5	70.5
8	5.32	5	60.75	73.82	58.75	70.97	55.5	60.9	24.52	36.28	49.7	55.7	46.7	54.8	53.5	60
10	5.95	5.61	59.3	77.24	57.3	74.8	53.3	61.8	25	36.23	47.8	55.2	44.8	53.2	51.3	60.1
16	7.55	7.16	56.24	75.11	54.24	71.52	48.6	63.4	25	36.98	43.7	49.7	40.7	48.1	46.6	59.8
20	8.47	8.04	54.78	69.67	52.78	68.13	46.3	63.7	25	37.96	41.8	48.1	38.8	46.2	44.3	60.9
25	9.51	9.02	53.33	67.04	51.33	64.13	43.8	53.2	24.32	33.59	39.8	45.9	36.8	45	41.8	51.7
100	19.8	18.58	44.3	58.71	42.3	57.31	24.5	41.2	20.11	31.85	27.8	35	24.8	33.2	22.5	39.2
200	28.98	27.01	39.78	53.59	37.78	51.66	10.8	30.1	18	27.42	21.8	32.8	18.8	30.2	8.8	28.6
250	32.85	30.51	38.33	54.10	36.33	51.78	5.5	26.4	17.32	25.20	19.8	30.7	16.8	27.7	3.5	24.7
300	36.4	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	48.9	43.9	33.8	51	31.8	49.3	---	---	15.2	18.6	13.8	19.5	10.8	18.7	---	---
550	51.76	49.11	33.19	49.5	31.2	47.8	---	---	14.92	18.7	12.8	17.6	9.8	17	---	---

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

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Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weigth	Item Dimensions (mm)
North America:						
Not available at this time						
EU (EMEA):						
CAT6-PREM-LS-BK	810093725984	Black	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400
CAT6-PREM-LS-BL	810093725991	Green	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400
CAT6-PREM-LS-OR	810093726004	Orange	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400
CAT6-PREM-LS-RD	810093726011	Red	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400