

Cat6 Eco Series

U/UTP LSZH EuroClass: Dca

Key Features

- 250*MHz Class E Bandwidth Performance
- LSZH for Indoor Installations
- PoE Rated 15W/30W
- 3rd Party ETL Verified
- CPR Euroclass: Dca-s2,d2,a1
- Limited Lifetime Warranty
- RoHS, REACH, CE, UKCA
- Reelex Air Tangle Free Box

Description

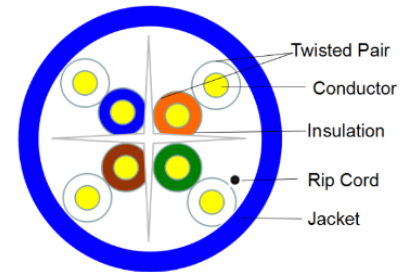
Cat6 Eco Series UTP LSZH - 250*MHz ETL Verified 24*AWG Solid BC, 4PR, U/UTP, Pair Separator, Class E, PoE Type 2 15W/30W, CPR EuroClass: Dca-s2,d2,a1, LSZH Jacket

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.



Reelex Air Box



Construction

Conductor	Material	Bare Copper	Shielding/Screen	Type	Unshielded
	Solid/Stranded	Solid (0.53)		Material	na
	Size	24* AWG			
	Insulation Material	HDPE		Drain Wire	None
	Insulation OD	0.195mm			
Pair Separator/Spline	Color Code	Per ANSI/TIA 568.2-D	Jacket/Sheath	Material	LSZH
	Twisted Pair	4P/2 Cores to Pair		Nominal Jacket Thickness	0.55mm avg
	Insulated Conductor OD	0.92+/-0.05mm		Color Code	Per Request
Pair Separator/Spline	Material	LDPE	Overall Cable Diameter (OD)	5.8±0.4mm	
	Spline OD	4.0 +/-0.5mm, 0.45 +/-0.1mm			
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	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
REACH, WEEE Directive, WFD:2023, SCIP:2023, POPs (EU) No 2019/1021

Rev. 04252Z

Electrical Characteristics

Bandwidth per TIA Standard	250MHz	Capacitance Unbalance pair-to-ground	Max 3300 pf/km
Maximum Bandwidth as Tested	250MHz	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	802.3at Type 2 15W/30W
Insulation Resistance	min 5000MQ.km	Transverse Conversion Loss (TCL)	30 – 10log(f / 100) @1-250MHz
Mutual Capacitance	5600pF/100m		

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

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 802.3at Type 2 (15W/30W)

Power Over HDBaseT (PoH): Yes

3rd Party Certification: ETL Verified

Cable Jacket Markings

Structured Cable Products --- Cat6-ETL-LSZH-XX --- Cat6 Eco LSZH Series -250+MHz U/UTP ANSI/TIA 568.2-D ISO/IEC 11801 Class E ETL Verified CMR FT4 75°C 4PR 24+ 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	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	6	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	7.6	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	8.5	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	9.5	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	19.8	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	29	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	32.8	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

Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weight (lb/kg)	Item Dimensions (mm)
North America:						
Not available at this time						
EU (EMEA):						
CAT6-ECO-LSZH-BK	810093725779	Black	1000ft/305m	Reellex Air Tangle Free Box	28.6/13	405x220x405
CAT6-ECO-LSZH-BL	810093725786	Blue	1000ft/305m	Reellex Air Tangle Free Box	28.6/13	405x220x405
CAT6-ECO-LSZH-GN	810093725793	Green	1000ft/305m	Reellex Air Tangle Free Box	28.6/13	405x220x405

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