

# Cat6 Eco Standard Series U/UTP PVC ETL Riser

(North America Only)

## Key Features

- 250+ MHz (swept to 500MHz) Class E Bandwidth Performance
- 23 AWG Copper Conductors
- PoE Rated Type 2 30W
- ETL c(ETL) Riser Rated CMR FT4
- ETL Verified to ANSI/TIA 568.2-D
- Reellex II Tangle-Free Box
- Environmental Friendly
- Recycled Materials
- Industry Leading Zone and Outlet Legend
- Limited Lifetime Warranty\*

\*Details at [www.scpcat5e.com/warranties](http://www.scpcat5e.com/warranties)

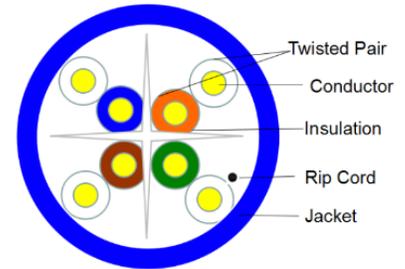


## Description

Cat6 Eco Standard Series UTP ETL CMR - 250+ MHz (swept to 500MHz) 23 AWG Solid BC, 4PR, U/UTP, Pair Separator, Class E, PoE Type 2 15W/30W, ETL CMR FT4, PVC 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

<b>Conductor</b>	Material	Bare Copper	<b>Shielding/Screen</b>	Type	Unshielded
	Solid/Stranded	Solid (0.53)		Material	na
	Size	23 AWG		<b>Drain Wire</b>	None
	Insulation Material	HDPE			
	Insulation OD	0.225mm			<b>Jacket/Sheath</b>
Color Code	Per ANSI/TIA 568.2-D	Nominal Jacket Thickness	0.55mm avg		
Twisted Pair	4P/2 Cores to Pair	0.98+/-0.05mm	Color Code	Per Request	
<b>Pair Separator/Spline</b>	Material	LDPE	<b>Overall Cable Diameter (OD)</b>	6.0±0.4mm	
	Spline OD	4.0 +/-0.5mm, 0.45 +/-0.1mm			
<b>Rip Cord</b>	Yes, Nylon				

## Mechanical Properties

<b>Bend Radius</b>	Min Bend Radius (Installation)	8x Outer Diameter
	Min Bend Radius (Operation)	4x Outer Diameter
<b>Maximum Pulling Tension</b>	85N	
<b>Insulation Tensile Strength</b>	Unaged / Elongation %	12.3Mpa / 150%
	Aged / Elongation %	9.8Mpa / 100%
<b>Jacket/Screen Tensile Strength</b>	Unaged / Elongation %	13.8Mpa / 100%
	Aged / Elongation %	11.7Mpa / 50%
<b>Cable Cold Bend (-20°C for 4 hrs)</b>	No Crack	

## Environmental Parameters

<b>Temperature Range - Operating</b>	-20°C to 75°C (-4°F to 167°F)
<b>Temperature Range - Installation</b>	0°C to 40°C (32°F to 104°F)
<b>Temperature Range - Storage</b>	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  
 Reellex Air Box - Up to 40% less cardboard & plastic. Recycled Materials;  
 Improved Environmental Impact  
 Reellex 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](http://www.P65Warnings.ca.gov)

Rev. 42225Z

## Electrical Characteristics

<b>Bandwidth per TIA Standard</b>	250MHz	<b>Capacitance Unbalance pair-to-ground</b>	Max 3300 pf/km
<b>Maximum Bandwidth as Tested</b>	500MHz	<b>Characteristic Impedance</b>	100 +/- 15 Ohm
<b>Conductor Resistance (at 20°C)</b>	Max 93.8 Ohm/km	<b>Nominal Velocity of Propagation % (NVP)</b>	67-69%
<b>Dielectric Strength</b>	Min AC1.5KV	<b>Rated Voltage</b>	Insulated 300V
<b>Spark Test</b>	2.5KV	<b>Delay Skew</b>	Operating Low Voltage 80V
<b>AC Leakage Current thru Jacket/Screen</b>	na	<b>PoE Rating</b>	Max 45ns / 100m
<b>Resistance Unbalance</b>	Max 5%	<b>Transverse Conversion Loss (TCL)</b>	802.3at Type 2 15W/30W
<b>Insulation Resistance</b>	min 5000MΩ.km		30 – 10log( f / 100 ) @1-250MHz
<b>Mutual Capacitance</b>	5600pF/100m		

## Standards Reference

<b>Reaction to Fire:</b> ETL CMR FT4 75°C	<b>Power Over Ethernet (PoE):</b> IEEE 802.3at Type 2 (15W/30W)
<b>3rd Party Certification:</b> ETL CMR FT4	<b>Power Over HDBaseT (PoH):</b> Yes

## Cable Jacket Markings

Structured Cable Products --- CAT6-ECO-XX --- Cat6 Standard Eco Series - 250MHz (swept to 500MHz) U/UTP ANSI/TIA 568.2-D ETL Verified CMR FT4 75°C 4PR 23 AWG SOL BC PVC JKT CE RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\* Feet 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
500	48.9	43.9	33.8	51	31.8	49.3	-	-	15.2	18.6	13.8	19.5	10.8	18.7	-	-

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**Part Numbers**

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weight (lb/kg)	Item Dimensions (mm)
<b>North America:</b>						
CAT6-ECO-BK	810093726028	Black	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-BL	810093725670	Blue	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-GY	810093726035	Gray	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-GN	810093726042	Green	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-OR	810093726059	Orange	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-PUR	810093726066	Purple	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-RD	810093726073	Red	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-WT	810093725687	White	1000ft/305m	Reelex II Box	28.6/13	405x220x405
CAT6-ECO-YL	810093726080	Yellow	1000ft/305m	Reelex II Box	28.6/13	405x220x405