

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

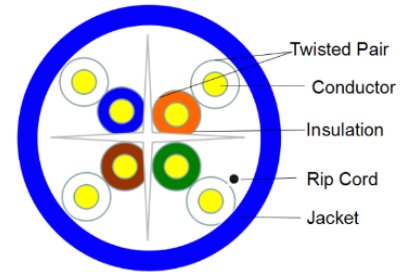


Description

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

Conductor	Material	Bare Copper	Shielding/Screen	Type	Unshielded
	Solid/Stranded	Solid		Material	na
	Size	23 AWG		Drain Wire	None
	Insulation Material	HDPE			
	Insulation OD	0.225mm			Jacket/Sheath
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	
Pair Separator/Spline	Material	LDPE	Overall Cable Diameter (OD)	6.0±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 %	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
 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

Rev. 42225Z

Electrical Characteristics

Bandwidth per TIA Standard	250MHz	Capacitance Unbalance pair-to-ground	Max 3300 pf/km
Maximum Bandwidth as Tested	500MHz	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	Delay Skew	Operating Low Voltage 80V
AC Leakage Current thru Jacket/Screen	na	PoE Rating	Max 45ns / 100m
Resistance Unbalance	Max 5%	Transverse Conversion Loss (TCL)	802.3at Type 2 15W/30W
Insulation Resistance	min 5000MΩ.km		30 – 10log(f / 100) @1-250MHz
Mutual Capacitance	5600pF/100m		

Standards Reference

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

Cable Jacket Markings

Structured Cable Products --- CAT6-ECO --- CAT6 ECO STANDARD SERIES --- SWEPT TO 500MHz ETL LISTED c(ETL) us 5015458 CMR FT4 75C 23AWG SOL BC 4PR UTP ANSI/TIA 568.2-D PVC JKT RoHS ZONE/ DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ****FEET POXXXX

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)
North America:						
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